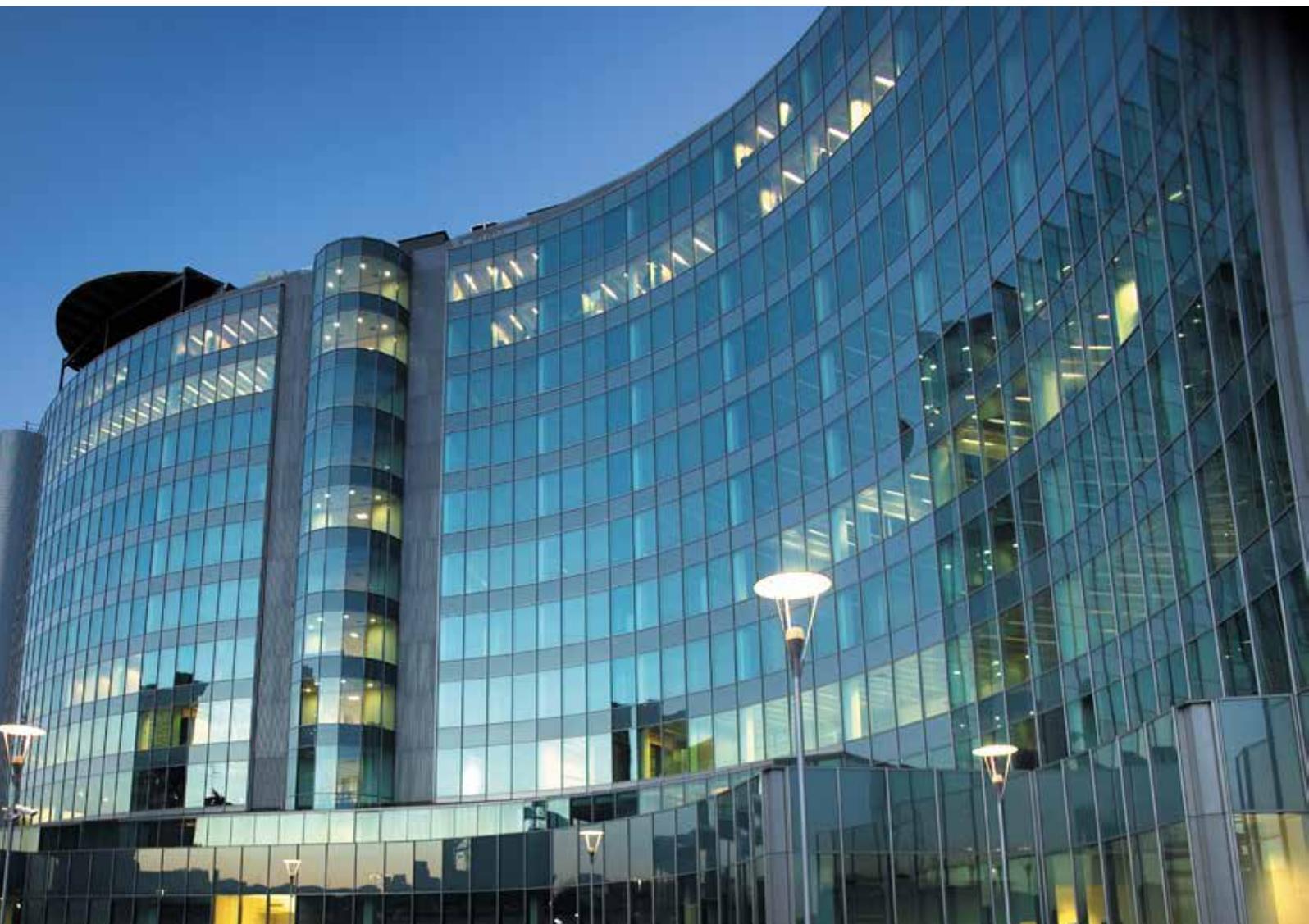

WITH EFFECT FROM 10TH JANUARY, 2019

Builders and contractors

Price list (₹)



Electrification products

ABB is a global leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact.

ABB in India serves customers in process, manufacturing and consumer industries, utilities, the oil & gas sector and infrastructure markets through a wide manufacturing and marketing network.

ABB offers a full range of low- and medium-voltage solutions to connect, protect, control and measure a wide range of electrical systems for all major industries, including the residential sector.

The business improves the reliability and efficiency of electrical installations through modular substation packages, distribution automation products, switchgear, circuit breakers, measuring and sensing devices,

control products, wiring accessories, and enclosures and cabling systems, including KNX systems designed to integrate and automate a building's lighting, ventilation, heating and security and data communication networks.

ABB's product range serves the diverse needs of customers, offering value for money and high levels of quality and reliability. These products are backed by the technological expertise of ABB's centres of excellence across the globe, each of which excel in a specific range of low voltage products.

ABB's electrification products offering in India is designed, manufactured and tested in-house in conformance with requirements of the ISO 9000 series. These products conform to the latest IEC standards, EN specifications, national standards such as IS, BS, VDE, etc., in addition to the "CE" mark.

Table of contents

Electrification products

Building products

07	Introduction - The System Pro M Compact®
08	Miniature Circuit Breakers - SH200M - Technical features
09-10	Miniature Circuit Breakers - SH200M - Product codes, C Characteristics 10 kA
11-12	Miniature Circuit Breakers - SH200M - Product codes, D Characteristics 10 kA
13	Miniature Circuit Breakers - S200M - Technical features
14-15	Miniature Circuit Breakers - S200M - Product codes, C Characteristics
16-17	Miniature Circuit Breakers - S200M - Product codes, D Characteristics
18	Miniature Circuit Breaker (MCB) - S200M DC - MCB for DC applications - Technical features
19	S200M - DC, Product codes - C Characteristics 10 kA
20	Miniature Circuit Breakers - S200 Series 6 kA
21	High Performance MCB - S800 Series
22	Isolators - SHD & E200 Series
23	Residual Current Circuit Breakers - FH200 Series - Technical features
24	Residual Current Circuit Breakers - FH200 Series - Product codes
25	Residual Current Circuit Breakers - F200 Series - Technical features
26	Residual Current Circuit Breakers - F200 Series - Product codes
27	Residual Current Circuit Breakers with Overcurrent Protection - DS200M Series
28	RCD Blocks - DDA200 Series
29-30	Solution for unwanted tripping - AP-R type RCD
31-33	Auxiliary elements & accessories (MCB, RCCB & RCBO)
34	Overall dimensions - (MCB, RCCB, RCBO, DDA)
35-36	Surge Protection Devices - OVR
37-38	D Line. Simply precise
39-40	SMISLINE TP plug-in system
41	Earth Leakage Relay - ELR, RD3 & TR
42	Measurement devices - DMTME Multimeter
43-45	Network Analyser - M2M
46-57	Performance redefined - ABB ITUS

Table of contents

58-66	Distribution Boards - Elegance Series
67-73	Distribution Boards - Classic Series
74	Distribution Boards - Gemini
75-88	Wiring accessories - IVIE
89-90	Wiring accessories - Tvisha
91-92	Wiring accessories - Cheiron
93-94	Wiring accessories - Snieo
95-97	Busch-Presence detectors
98	G Kit
99-103	Wiring accessories - Industrial plugs and sockets
104-105	Emax - Low voltage air circuit breakers
106-107	Tmax moulded case circuit breakers
108-116	Tmax power distribution circuit breakers
117-127	Tmax accessories
128-130	FORMULA moulded case circuit breaker
131	OT Manual changeover switches
132	OT Motorized changeover switches
133	ABB compact ATS
135	OT Automatic transfer switches
136	Accessories for changeovers (manual, motorized, ATS)
137	OFAF HRC fuse links and base, DIN-type
138	OFF HRC fuse links and base, BS-type
139-142	Installation contactors
143	Mini contactors
144	DOL and Star delta starters
145	Installation products
146-148	Wire and cable management
149-151	External lightning protection
152	Emergency lighting systems
153	MV and HV apparatus
154-155	General conditions of sale

The System pro M compact® – DIN rail products

System Pro M

System Pro M is a modular system developed by ABB which, is capable of meeting the requirements of the most modern and up-to-date installations for low voltage applications.

MCBs

Miniature circuit-breakers.

RCDs

- Residual current circuit-breakers (RCCBs);
- RCD-blocks;
- Residual current circuit-breakers with overcurrent protection (RCBOs);
- Residual current relays (modular and front panel) with external toroid.

Auxiliary elements

A whole range of accessories and auxiliary elements.

SPDs

Surge protective devices.

Protection devices

In addition to MCBs and RCDs, ABB supplies other modular devices for protection such as fuse holders, fuses, switch disconnectors, insulation monitoring devices etc.

Command devices

This category includes devices that are operated manually to command the electric system: contactors, latching relays, switch-isolators, switches, pushbuttons etc. Typically they are installed to control lights from several points of the same circuit or to pilot user devices with a high number of operations.

Load management devices

Overload relays, load management switches, anti black-out lamps, time switches and the other modular devices in this category react automatically to variations of parameters and other events in the system to allow for plant optimisation.

Measurement devices

The range of devices in this category is very wide, including a great number of auxiliary components and accessories that make installation in switchboards and consumer units practical and economic.

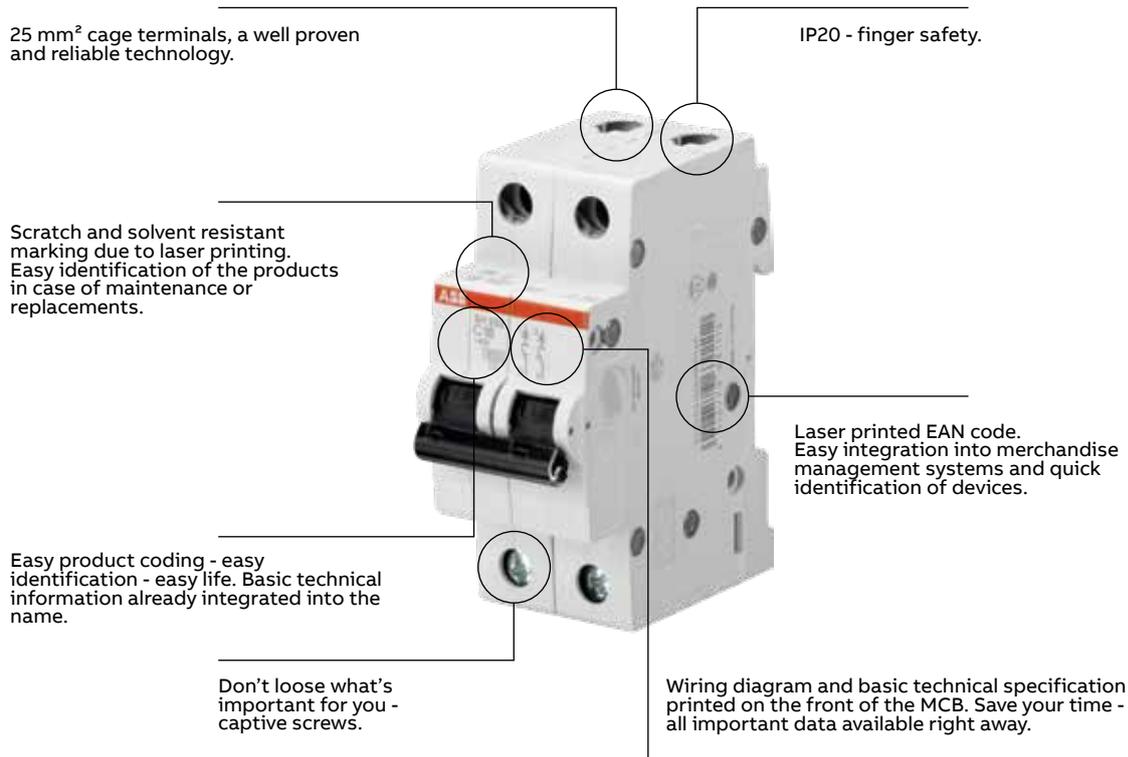
Other devices

The System pro M compact® range also includes bells, transformers, modular sockets etc.



Miniature Circuit Breaker (MCB)

SH200M series



Technical Features

Electrical Data	SH200 M
Standards	IS/IEC 60898-1
Poles	1P, 2P, 3P, 4P, 1P +N, 3P +N
Tripping Characteristics	B, C, D
Rated Current	0.5A - 63 A (0.5 A - 40 A in D chr.)
Rated Voltage	1P : 230/400/415 V AC 1P + N : 230 V AC 2...4P : 400/415 V AC 3P + N : 400/415 V AC
Insulation Voltage	250 V AC (Phase to Ground) 440 V AC (Phase to Phase)
Max Operating Voltage	1P: 253 V AC 2...4P : 440 V AC
Min Operating Voltage	12 V AC
Rated Frequency	50/60 Hz
Rated Short Circuit Capacity	10kA
Energy Limiting Class	3
Over Voltage Category (B,C upto 40A)	III
Pollution Degree	2
Rated Impulse withstand Voltage	4kV (Test Voltage 6.2kV at Sea Level, 5kV at 2,000 m)
Dielectric Test Voltage	2kV (50/60 Hz, 1 min)
Accessories mountable	No

SH200M - MCBs, C characteristics - 10 kA



SH201M-C

Single pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH201M-C 0.5	0.5	12	1SYS271011R0984	350
SH201M-C 1	1	12	1SYS271011R0014	
SH201M-C 1.6	1.6	12	1SYS271011R0974	
SH201M-C 2	2	12	1SYS271011R0024	
SH201M-C 3	3	12	1SYS271011R0034	
SH201M-C 4	4	12	1SYS271011R0044	
SH201M-C 6	6	12	1SYS271011R0064 ■	238
SH201M-C 10	10	12	1SYS271011R0104 ■	
SH201M-C 16	16	12	1SYS271011R0164 ■	
SH201M-C 20	20	12	1SYS271011R0204 ■	
SH201M-C 25	25	12	1SYS271011R0254 ■	
SH201M-C 32	32	12	1SYS271011R0324 ■	
SH201M-C 40	40	12	1SYS271011R0404 ■	485
SH201M-C 50	50	12	1SYS271011R0504 ■	
SH201M-C 63	63	12	1SYS271011R0634 ■	



SH201M-C NA

Single Pole & neutral

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH201M-C 0.5 NA	0.5	6	1SYS271113R0984	1,000
SH201M-C 1 NA	1	6	1SYS271113R0014	
SH201M-C 1.6 NA	1.6	6	1SYS271113R0974	
SH201M-C 2 NA	2	6	1SYS271113R0024	
SH201M-C 3 NA	3	6	1SYS271113R0034	
SH201M-C 4 NA	4	6	1SYS271113R0044	
SH201M-C 6 NA	6	6	1SYS271113R0064 ■	690
SH201M-C 10 NA	10	6	1SYS271113R0104 ■	
SH201M-C 16 NA	16	6	1SYS271113R0164 ■	
SH201M-C 20 NA	20	6	1SYS271113R0204 ■	
SH201M-C 25 NA	25	6	1SYS271113R0254 ■	
SH201M-C 32 NA	32	6	1SYS271113R0324 ■	
SH201M-C 40 NA	40	6	1SYS271113R0404 ■	1,120
SH201M-C 50 NA	50	6	1SYS271113R0504 ■	
SH201M-C 63 NA	63	6	1SYS271113R0634 ■	



SH202M-C

Double pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH202M-C 0.5	0.5	6	1SYS272011R0984	930
SH202M-C 1	1	6	1SYS272011R0014	
SH202M-C 1.6	1.6	6	1SYS272011R0974	
SH202M-C 2	2	6	1SYS272011R0024	
SH202M-C 3	3	6	1SYS272011R0034	
SH202M-C 4	4	6	1SYS272011R0044	
SH202M-C 6	6	6	1SYS272011R0064 ■	650
SH202M-C 10	10	6	1SYS272011R0104 ■	
SH202M-C 16	16	6	1SYS272011R0164 ■	
SH202M-C 20	20	6	1SYS272011R0204 ■	
SH202M-C 25	25	6	1SYS272011R0254 ■	
SH202M-C 32	32	6	1SYS272011R0324 ■	
SH202M-C 40	40	6	1SYS272011R0404 ■	1,090
SH202M-C 50	50	6	1SYS272011R0504 ■	
SH202M-C 63	63	6	1SYS272011R0634 ■	

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

SH200M - MCBs, C characteristics - 10 kA



SH203M-C

Triple pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH203M-C 0.5	0.5	1	1SYS273011R0984	
SH203M-C 1	1	1	1SYS273011R0014	
SH203M-C 1.6	1.6	1	1SYS273011R0974	1,380
SH203M-C 2	2	1	1SYS273011R0024	
SH203M-C 3	3	1	1SYS273011R0034	
SH203M-C 4	4	1	1SYS273011R0044	
SH203M-C 6	6	1	1SYS273011R0064 ■	
SH203M-C 10	10	1	1SYS273011R0104 ■	
SH203M-C 16	16	1	1SYS273011R0164 ■	1,020
SH203M-C 20	20	1	1SYS273011R0204 ■	
SH203M-C 25	25	1	1SYS273011R0254 ■	
SH203M-C 32	32	1	1SYS273011R0324 ■	
SH203M-C 40	40	1	1SYS273011R0404 ■	
SH203M-C 50	50	1	1SYS273011R0504 ■	1,650
SH203M-C 63	63	1	1SYS273011R0634 ■	



SH203M-C NA

Triple pole & neutral

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH203M-C 0.5 NA	0.5	1	1SYS273113R0984	
SH203M-C 1 NA	1	1	1SYS273113R0014	
SH203M-C 1.6 NA	1.6	1	1SYS273113R0974	2,040
SH203M-C 2 NA	2	1	1SYS273113R0024	
SH203M-C 3 NA	3	1	1SYS273113R0034	
SH203M-C 4 NA	4	1	1SYS273113R0044	
SH203M-C 6 NA	6	1	1SYS273113R0064 ■	
SH203M-C 10 NA	10	1	1SYS273113R0104 ■	
SH203M-C 16 NA	16	1	1SYS273113R0164 ■	1,400
SH203M-C 20 NA	20	1	1SYS273113R0204 ■	
SH203M-C 25 NA	25	1	1SYS273113R0254 ■	
SH203M-C 32 NA	32	1	1SYS273113R0324 ■	
SH203M-C 40 NA	40	1	1SYS273113R0404 ■	
SH203M-C 50 NA	50	1	1SYS273113R0504 ■	2,080
SH203M-C 63 NA	63	1	1SYS273113R0634 ■	



SH204M-C

Four pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH204M-C 0.5	0.5	1	1SYS274011R0984	
SH204M-C 1	1	1	1SYS274011R0014	
SH204M-C 1.6	1.6	1	1SYS274011R0974	1,930
SH204M-C 2	2	1	1SYS274011R0024	
SH204M-C 3	3	1	1SYS274011R0034	
SH204M-C 4	4	1	1SYS274011R0044	
SH204M-C 6	6	1	1SYS274011R0064 ■	
SH204M-C 10	10	1	1SYS274011R0104 ■	
SH204M-C 16	16	1	1SYS274011R0164 ■	1,400
SH204M-C 20	20	1	1SYS274011R0204 ■	
SH204M-C 25	25	1	1SYS274011R0254 ■	
SH204M-C 32	32	1	1SYS274011R0324 ■	
SH204M-C 40	40	1	1SYS274011R0404 ■	
SH204M-C 50	50	1	1SYS274011R0504 ■	1,980
SH204M-C 63	63	1	1SYS274011R0634 ■	

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

■ Stock items

SH200M - MCBs, D characteristics - 10 kA



SH201M-D

Single pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH201M-D 0.5	0.5	12	1SYS271011R0981	
SH201M-D 1	1	12	1SYS271011R0011	
SH201M-D 1.6	1.6	12	1SYS271011R0971	
SH201M-D 2	2	12	1SYS271011R0021	400
SH201M-D 3	3	12	1SYS271011R0031	
SH201M-D 4	4	12	1SYS271011R0041	
SH201M-D 6	6	12	1SYS271011R0061	
SH201M-D 10	10	12	1SYS271011R0101	
SH201M-D 16	16	12	1SYS271011R0161	
SH201M-D 20	20	12	1SYS271011R0201	290
SH201M-D 25	25	12	1SYS271011R0251	
SH201M-D 32	32	12	1SYS271011R0321	
SH201M-D 40	40	12	1SYS271011R0401	540



SH202M-D

Double pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH202M-D 0.5	0.5	6	1SYS272011R0981	
SH202M-D 1	1	6	1SYS272011R0011	
SH202M-D 1.6	1.6	6	1SYS272011R0971	
SH202M-D 2	2	6	1SYS272011R0021	1,100
SH202M-D 3	3	6	1SYS272011R0031	
SH202M-D 4	4	6	1SYS272011R0041	
SH202M-D 6	6	6	1SYS272011R0061	
SH202M-D 10	10	6	1SYS272011R0101	
SH202M-D 16	16	6	1SYS272011R0161	
SH202M-D 20	20	6	1SYS272011R0201	780
SH202M-D 25	25	6	1SYS272011R0251	
SH202M-D 32	32	6	1SYS272011R0321	
SH202M-D 40	40	6	1SYS272011R0401	1,290

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

SH200M - MCBs, D characteristics - 10 kA



SH203M-D

Triple pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH203M-D 0.5	0.5	1	1SYS273011R0981	
SH203M-D 1	1	1	1SYS273011R0011	
SH203M-D 1.6	1.6	1	1SYS273011R0971	1,640
SH203M-D 2	2	1	1SYS273011R0021	
SH203M-D 3	3	1	1SYS273011R0031	
SH203M-D 4	4	1	1SYS273011R0041	
SH203M-D 6	6	1	1SYS273011R0061	
SH203M-D 10	10	1	1SYS273011R0101	
SH203M-D 16	16	1	1SYS273011R0161	1,240
SH203M-D 20	20	1	1SYS273011R0201	
SH203M-D 25	25	1	1SYS273011R0251	
SH203M-D 32	32	1	1SYS273011R0321	
SH203M-D 40	40	1	1SYS273011R0401	1,950



SH204M-D

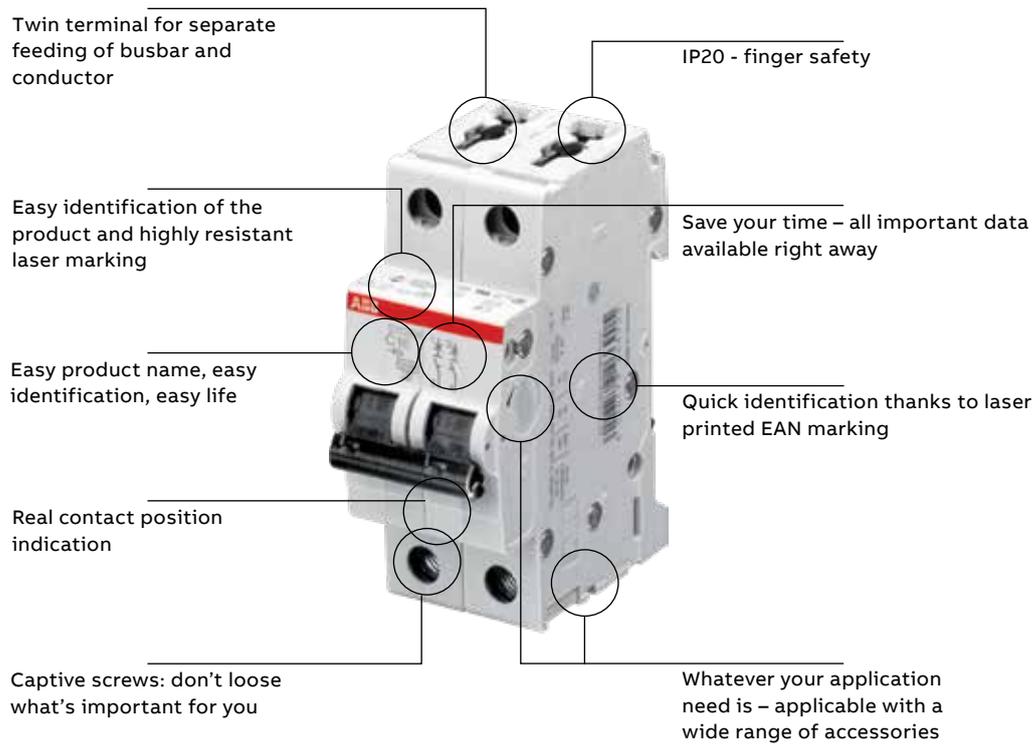
Four pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
SH204M-D 0.5	0.5	1	1SYS274011R0981	
SH204M-D 1	1	1	1SYS274011R0011	
SH204M-D 1.6	1.6	1	1SYS274011R0971	2,150
SH204M-D 2	2	1	1SYS274011R0021	
SH204M-D 3	3	1	1SYS274011R0031	
SH204M-D 4	4	1	1SYS274011R0041	
SH204M-D 6	6	1	1SYS274011R0061	
SH204M-D 10	10	1	1SYS274011R0101	
SH204M-D 16	16	1	1SYS274011R0161	1,710
SH204M-D 20	20	1	1SYS274011R0201	
SH204M-D 25	25	1	1SYS274011R0251	
SH204M-D 32	32	1	1SYS274011R0321	
SH204M-D 40	40	1	1SYS274011R0401	2,260

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

Miniature circuit breaker (MCB)

S200M series



Technical Features

Electrical data	S200 M	
Standards	IEC 60947-2, IS/IEC-60898-1	
Poles	1P, 2P, 3P, 4P, 1P +N, 3P +N	
Tripping characteristics	B, C, D	
Rated current	0.5A - 63 A	
Rated voltage	1P : 230 / 400 V AC 1P + N : 230 V AC 2...4P : 400 V AC 3P + N : 400 V AC	1P : 60 V DC 2P : 120 V DC
Insulation voltage	250 V AC (Phase to ground) 500 V AC (Phase to phase)	
Max operating voltage	1P: 253 V AC 2...4P : 440 V AC	
Min operating voltage	12 V AC	
Rated frequency	50/60 Hz	
Rated short circuit capacity	10kA	
Energy limiting class (B, C upto 40 A)	3	
Over voltage category	III	
Pollution degree	2	
Rated impulse withstand voltage	4kV (Test Voltage 6.2kV at Sea Level, 5kV at 2,000 m)	
Dielectric test voltage	2kV (50/60 Hz, 1 min)	
Accessories mountable	Yes	
Cross-section of conductor (top / bottom)	35 mm ²	
Terminal	Fail safe bi-directional cylinder - lift terminal	
Contact position indication	Marking on toggle (1 ON / 0 OFF), Real CPI (red ON / green OFF)	
Real contact position indication	Red ON / green OFF	

S200M - MCBs, C characteristics - 10 kA



S201M-C

Single pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S201M-C 0.5	0.5	12	2CDS271001R0984	465
S201M-C 1	1	12	2CDS271001R0014	
S201M-C 1.6	1.6	12	2CDS271001R0974	
S201M-C 2	2	12	2CDS271001R0024	
S201M-C 3	3	12	2CDS271001R0034	
S201M-C 4	4	12	2CDS271001R0044	
S201M-C 6	6	12	2CDS271001R0064 ■	285
S201M-C 10	10	12	2CDS271001R0104 ■	
S201M-C 16	16	12	2CDS271001R0164 ■	
S201M-C 20	20	12	2CDS271001R0204 ■	
S201M-C 25	25	12	2CDS271001R0254 ■	
S201M-C 32	32	12	2CDS271001R0324 ■	
S201M-C 40	40	12	2CDS271001R0404	580
S201M-C 50	50	12	2CDS271001R0504	
S201M-C 63	63	12	2CDS271001R0634 ■	



S201M-C NA

Single pole & neutral

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S201M-C 0.5 NA	0.5	6	2CDS271103R0984	1,195
S201M-C 1 NA	1	6	2CDS271103R0014	
S201M-C 1.6 NA	1.6	6	2CDS271103R0974	
S201M-C 2 NA	2	6	2CDS271103R0024	
S201M-C 3 NA	3	6	2CDS271103R0034	
S201M-C 4 NA	4	6	2CDS271103R0044	
S201M-C 6 NA	6	6	2CDS271103R0064	865
S201M-C 10 NA	10	6	2CDS271103R0104	
S201M-C 16 NA	16	6	2CDS271103R0164	
S201M-C 20 NA	20	6	2CDS271103R0204	
S201M-C 25 NA	25	6	2CDS271103R0254	
S201M-C 32 NA	32	6	2CDS271103R0324	
S201M-C 40 NA	40	6	2CDS271103R0404	1,465
S201M-C 50 NA	50	6	2CDS271103R0504	
S201M-C 63 NA	63	6	2CDS271103R0634	



S202M-C

Double pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S202M-C 0.5	0.5	6	2CDS272001R0984	1,200
S202M-C 1	1	6	2CDS272001R0014	
S202M-C 1.6	1.6	6	2CDS272001R0974	
S202M-C 2	2	6	2CDS272001R0024	
S202M-C 3	3	6	2CDS272001R0034	
S202M-C 4	4	6	2CDS272001R0044	
S202M-C 6	6	6	2CDS272001R0064 ■	880
S202M-C 10	10	6	2CDS272001R0104 ■	
S202M-C 16	16	6	2CDS272001R0164 ■	
S202M-C 20	20	6	2CDS272001R0204 ■	
S202M-C 25	25	6	2CDS272001R0254 ■	
S202M-C 32	32	6	2CDS272001R0324 ■	
S202M-C 40	40	6	2CDS272001R0404 ■	1,365
S202M-C 50	50	6	2CDS272001R0504	
S202M-C 63	63	6	2CDS272001R0634	

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

■ Stock items

S200M - MCBs, C characteristics - 10 kA



S203M-C

Triple pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S203M-C 0.5	0.5	1	2CDS273001R0984	1,825
S203M-C 1	1	1	2CDS273001R0014	
S203M-C 1.6	1.6	1	2CDS273001R0974	
S203M-C 2	2	1	2CDS273001R0024	
S203M-C 3	3	1	2CDS273001R0034	
S203M-C 4	4	1	2CDS273001R0044	
S203M-C 6	6	1	2CDS273001R0064 ■	1,365
S203M-C 10	10	1	2CDS273001R0104 ■	
S203M-C 16	16	1	2CDS273001R0164 ■	
S203M-C 20	20	1	2CDS273001R0204 ■	
S203M-C 25	25	1	2CDS273001R0254 ■	
S203M-C 32	32	1	2CDS273001R0324 ■	
S203M-C 40	40	1	2CDS273001R0404 ■	2,090
S203M-C 50	50	1	2CDS273001R0504	
S203M-C 63	63	1	2CDS273001R0634 ■	



S203M-C NA

Triple pole & neutral

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S203M-C 0.5 NA	0.5	1	2CDS273103R0984	2,430
S203M-C 1 NA	1	1	2CDS273103R0014	
S203M-C 1.6 NA	1.6	1	2CDS273103R0974	
S203M-C 2 NA	2	1	2CDS273103R0024	
S203M-C 3 NA	3	1	2CDS273103R0034	
S203M-C 4 NA	4	1	2CDS273103R0044	
S203M-C 6 NA	6	1	2CDS273103R0064	1,765
S203M-C 10 NA	10	1	2CDS273103R0104	
S203M-C 16 NA	16	1	2CDS273103R0164	
S203M-C 20 NA	20	1	2CDS273103R0204 ■	
S203M-C 25 NA	25	1	2CDS273103R0254 ■	
S203M-C 32 NA	32	1	2CDS273103R0324 ■	
S203M-C 40 NA	40	1	2CDS273103R0404 ■	2,670
S203M-C 50 NA	50	1	2CDS273103R0504 ■	
S203M-C 63 NA	63	1	2CDS273103R0634 ■	



S204M-C

Four pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S204M-C 0.5	0.5	1	2CDS274001R0984	2,325
S204M-C 1	1	1	2CDS274001R0014	
S204M-C 1.6	1.6	1	2CDS274001R0974	
S204M-C 2	2	1	2CDS274001R0024	
S204M-C 3	3	1	2CDS274001R0034	
S204M-C 4	4	1	2CDS274001R0044	
S204M-C 6	6	1	2CDS274001R0064 ■	1,755
S204M-C 10	10	1	2CDS274001R0104 ■	
S204M-C 16	16	1	2CDS274001R0164 ■	
S204M-C 20	20	1	2CDS274001R0204 ■	
S204M-C 25	25	1	2CDS274001R0254 ■	
S204M-C 32	32	1	2CDS274001R0324 ■	
S204M-C 40	40	1	2CDS274001R0404 ■	2,635
S204M-C 50	50	1	2CDS274001R0504	
S204M-C 63	63	1	2CDS274001R0634 ■	

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

S200M - MCBs, D characteristics - 10 kA



S201M-D

Single pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S201M-D 0.5	0.5	12	2CDS271001R0981	
S201M-D 1	1	12	2CDS271001R0011	
S201M-D 1.6	1.6	12	2CDS271001R0971	470
S201M-D 2	2	12	2CDS271001R0021	
S201M-D 3	3	12	2CDS271001R0031	
S201M-D 4	4	12	2CDS271001R0041	
S201M-D 6	6	12	2CDS271001R0061	
S201M-D 10	10	12	2CDS271001R0101	
S201M-D 16	16	12	2CDS271001R0161	395
S201M-D 20	20	12	2CDS271001R0201	
S201M-D 25	25	12	2CDS271001R0251	
S201M-D 32	32	12	2CDS271001R0321	
S201M-D 40	40	12	2CDS271001R0401	
S201M-D 50	50	12	2CDS271001R0501	740
S201M-D 63	63	12	2CDS271001R0631	



S202M-D

Double pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S202M-D 0.5	0.5	6	2CDS272001R0981	
S202M-D 1	1	6	2CDS272001R0011	
S202M-D 1.6	1.6	6	2CDS272001R0971	1,395
S202M-D 2	2	6	2CDS272001R0021	
S202M-D 3	3	6	2CDS272001R0031	
S202M-D 4	4	6	2CDS272001R0041	
S202M-D 6	6	6	2CDS272001R0061	
S202M-D 10	10	6	2CDS272001R0101	
S202M-D 16	16	6	2CDS272001R0161	915
S202M-D 20	20	6	2CDS272001R0201	
S202M-D 25	25	6	2CDS272001R0251	
S202M-D 32	32	6	2CDS272001R0321	
S202M-D 40	40	6	2CDS272001R0401	
S202M-D 50	50	6	2CDS272001R0501	1,585
S202M-D 63	63	6	2CDS272001R0631	

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

S200M - MCBs, D characteristics - 10 kA



S203M-D

Triple pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S203M-D 0.5	0.5	1	2CDS273001R0981	1,980
S203M-D 1	1	1	2CDS273001R0011	
S203M-D 1.6	1.6	1	2CDS273001R0971	
S203M-D 2	2	1	2CDS273001R0021	
S203M-D 3	3	1	2CDS273001R0031	
S203M-D 4	4	1	2CDS273001R0041	
S203M-D 6	6	1	2CDS273001R0061	
S203M-D 10	10	1	2CDS273001R0101	
S203M-D 16	16	1	2CDS273001R0161	1,610
S203M-D 20	20	1	2CDS273001R0201	
S203M-D 25	25	1	2CDS273001R0251	
S203M-D 32	32	1	2CDS273001R0321	
S203M-D 40	40	1	2CDS273001R0401	
S203M-D 50	50	1	2CDS273001R0501	2,395
S203M-D 63	63	1	2CDS273001R0631	



S204M-D

Four pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
S204M-D 0.5	0.5	1	2CDS274001R0981	
S204M-D 1	1	1	2CDS274001R0011	
S204M-D 1.6	1.6	1	2CDS274001R0971	2,660
S204M-D 2	2	1	2CDS274001R0021	
S204M-D 3	3	1	2CDS274001R0031	
S204M-D 4	4	1	2CDS274001R0041	
S204M-D 6	6	1	2CDS274001R0061	
S204M-D 10	10	1	2CDS274001R0101	
S204M-D 16	16	1	2CDS274001R0161	2,015
S204M-D 20	20	1	2CDS274001R0201	
S204M-D 25	25	1	2CDS274001R0251	
S204M-D 32	32	1	2CDS274001R0321	
S204M-D 40	40	1	2CDS274001R0401	
S204M-D 50	50	1	2CDS274001R0501	3,000
S204M-D 63	63	1	2CDS274001R0631	

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.

Miniature circuit-breaker (MCB)

S200M DC - MCB for DC applications



S200 M DC MCB in System pro M compact range impresses with its performance range, approvals and high inbuilt short circuit breaking capacity in DC applications. S200 M DC MCBs

can be used in 1-pole version at 220V DC and in 2-pole version up to 440V DC. During the installation process it is necessary to take into account, the polarity marked on the device.

Technical features

Electrical data	S200 M DC	
Standards	IEC / EN 60947-2	
Poles	1P, 2P	
Tripping characteristics curve	C	
Rated current	1.6A - 63 A	
Rated voltage	1P : 220 V DC	2P : 440V DC
Maximum power frequency recovery voltage, U _{max}	1P : 250V DC	2P : 500V DC
Min. operating voltage	12 V DC	
Rated ultimate short-circuit breaking capacity, I _{cu}	10kA	
Rated service short-circuit breaking capacity, I _{cs}	10kA	
Cross-section of conductor (top / bottom)	35 mm ²	
Terminal	Fail safe bi-directional cylinder - lift terminal	
Contact position indication	Marking on toggle (1 ON / 0 OFF), Real CPI (red ON / green OFF)	
Real contact position indication	Red ON / green OFF	
Accessories mountable	Yes (All System ProM Compact accessories)	
Housing	Insulation group I, RAL 7035	
Toggle	Insulation group II, black, sealable	
Ambient temperature	-25..... +55°C	
Storage temperature	-40..... +70°C	
Torque	2.8 Nm	
Screwdriver	No. 2 Pozidrive	
Mounting	On DIN rail 35 mm acc. to EN 60715 by fast clip	
Mounting position	any	
Mounting dimensions acc. To DIN 43880	1	
Pole dimensions (H X D X W)	85 X 69 X 17.5	
Pole weight	approx. 125g	

S200M - DC , C characteristics - 10 kA



S201M-C DC

Single pole

Description	Current rating (A)	Pack Unit (Pc)	Ordering code	Unit L.P. (₹)
S201M-C1,6DC	1.6	12	2CDS271064R0974	755
S201M-C2DC	2	12	2CDS271064R0024	
S201M-C3DC	3	12	2CDS271064R0034	
S201M-C4DC	4	12	2CDS271064R0044	
S201M-C6DC	6	12	2CDS271064R0064	620
S201M-C10DC	10	12	2CDS271064R0104	
S201M-C16DC	16	12	2CDS271064R0164	
S201M-C20DC	20	12	2CDS271064R0204	
S201M-C25DC	25	12	2CDS271064R0254	790
S201M-C32DC	32	12	2CDS271064R0324	
S201M-C40DC	40	12	2CDS271064R0404	
S201M-C50DC	50	12	2CDS271064R0504	
S201M-C63DC	63	12	2CDS271064R0634	



S202M-C DC

Double Pole

Description	Current rating (A)	Pack Unit (Pc)	Ordering code	Unit L.P. (₹)
S202M-C1,6DC	1.6	6	2CDS272064R0974	1,600
S202M-C2DC	2	6	2CDS272064R0024	
S202M-C3DC	3	6	2CDS272064R0034	
S202M-C4DC	4	6	2CDS272064R0044	
S202M-C6DC	6	6	2CDS272064R0064	1,290
S202M-C10DC	10	6	2CDS272064R0104	
S202M-C16DC	16	6	2CDS272064R0164	
S202M-C20DC	20	6	2CDS272064R0204	
S202M-C25DC	25	6	2CDS272064R0254	1,745
S202M-C32DC	32	6	2CDS272064R0324	
S202M-C40DC	40	6	2CDS272064R0404	
S202M-C50DC	50	6	2CDS272064R0504	
S202M-C63DC	63	6	2CDS272064R0634	

Note: Standard packing quantity for MCBs: SP - 12 Nos, DP - 6 Nos

Miniature Circuit Breaker (MCB)

S200 series - 80, 100A



S201C

Features

- Breaking capacity - 6kA
- Tripping characteristics - C curve
- Suitable for -25..... +55 °C ambient temperatures
- Standards : Conforms to IEC60898, IEC60947-2

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
Single pole				
S201-C80	80	1	2CDS251001R0804	2,295
S201-C100	100	1	2CDS251001R0824	2,685
Single pole & neutral				
S201-C80NA	80	1	2CDS251103R0804	4,800
S201-C100NA	100	1	2CDS251103R0824	5,730
Double pole				
S202-C80	80	1	2CDS252001R0804	4,500
S202-C100	100	1	2CDS252001R0824	5,200
Triple pole				
S203-C80	80	1	2CDS253001R0804	6,550
S203-C100	100	1	2CDS253001R0824	7,925
Triple pole & neutral				
S203-C80NA	80	1	2CDS253103R0804	9,850
S203-C100NA	100	1	2CDS253103R0824	11,740
Four pole				
S204-C80	80	1	2CDS254001R0804	9,200
S204-C100	100	1	2CDS254001R0824	9,950

High performance MCB

S800 series 80 to 125A



S202M-C DC

Features

- Complies to standards IEC 60947-2 & EN 60898-1
- Compact size: One size up to 125A
- Compact performance: Selective and back-up characteristics
- Does not let go: The interchangeable terminal adapter. Cage terminals or ring lugs
- On the safe side: Operating status display.
- Simple and flexible: Accessories fitted by the customer
- Identical accessories for a broad range of applications

The S800 range

- S800S (50kA) upto 125A
- S800N (36kA) upto 125A
- S800C (25kA) upto 125A
- S800B (16kA) upto 125A
- S800PV-SP (upto 1500V DC & upto 125A)
- S800PV-M-H (upto 1500V DC & upto 125A)

S800B - 'C' Curve 16 kA as per IEC 60947-2

Single pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
S801B-C32	32	1	2CCS811001R0324	2,285
S801B-C40	40	1	2CCS811001R0404	2,285
S801B-C50	50	1	2CCS811001R0504	2,400
S801B-C63	63	1	2CCS811001R0634	2,400
S801B-C80	80	1	2CCS811001R0804	2,800
S801B-C100	100	1	2CCS811001R0824	2,950
S801B-C125	125	1	2CCS811001R0844	3,100

Double pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
S802B-C32	32	1	2CCS812001R0324	4,800
S802B-C40	40	1	2CCS812001R0404	4,800
S802B-C50	50	1	2CCS812001R0504	5,040
S802B-C63	63	1	2CCS812001R0634	5,040
S802B-C80	80	1	2CCS812001R0804	5,800
S802B-C100	100	1	2CCS812001R0824	6,200
S802B-C125	125	1	2CCS812001R0844	6,500

Triple pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
S803B-C32	32	1	2CCS813001R0324	7,300
S803B-C40	40	1	2CCS813001R0404	7,300
S803B-C50	50	1	2CCS813001R0504	7,680
S803B-C63	63	1	2CCS813001R0634	7,680
S803B-C80	80	1	2CCS813001R0804	8,960
S803B-C100	100	1	2CCS813001R0824	9,440
S803B-C125	125	1	2CCS813001R0844	9,920

Four pole

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
S804B-C32	32	1	2CCS814001R0324	9,820
S804B-C40	40	1	2CCS814001R0404	9,820
S804B-C50	50	1	2CCS814001R0504	10,320
S804B-C63	63	1	2CCS814001R0634	10,320
S804B-C80	80	1	2CCS814001R0804	12,040
S804B-C100	100	1	2CCS814001R0824	12,680
S804B-C125	125	1	2CCS814001R0844	13,330

Isolators

SHD series

Isolator for panel installation onto DIN rail acc. to DIN EN 60715

Mounting depth : 70 mm

Mounting width : per pole = 17.5 mm = 1 module

Colour : grey, RAL 7035

Colour of switch lever : red RAL 3000®

Captive screws with recessed/slotted head, Pozidrive size 2

Compatibility for Locking device (unauthorized ON/OFF)



SHD201

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
Double pole				
SHD202/25	25	6	1SYD272111R0025 ■	490
SHD202/40	40	6	1SYD272111R0040 ■	525
SHD202/63	63	6	1SYD272111R0063 ■	695
Triple pole				
SHD203/25	25	4	1SYD273111R0025 ■	825
SHD203/40	40	4	1SYD273111R0040 ■	900
SHD203/63	63	4	1SYD273111R0063 ■	1,050
Four pole				
SHD204/25	25	3	1SYD274111R0025 ■	920
SHD204/40	40	3	1SYD274111R0040 ■	1,115
SHD204/63	63	3	1SYD274111R0063 ■	1,235

Note: Standard packing quantity for MCBs: SP - 12 Nos, SPN/DP - 6 Nos, TP/TPN/FP - 1 No.



E201

Description	Current rating (A)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
Double pole				
E202/80r	80	1	2CDE282001R0080	900
E202/100r	100	1	2CDE282001R0100	1,415
E202/125r	125	1	2CDE282001R0125	1,460
Triple pole				
E203/80r	80	1	2CDE283001R0080	1,510
E203/100r	100	1	2CDE283001R0100	1,650
E203/125r	125	1	2CDE283001R0125	1,850
Four pole				
E204/80r	80	1	2CDE284001R0080	1,700
E204/100r	100	1	2CDE284001R0100	1,800
E204/125r	125	1	2CDE284001R0125	2,010



E213

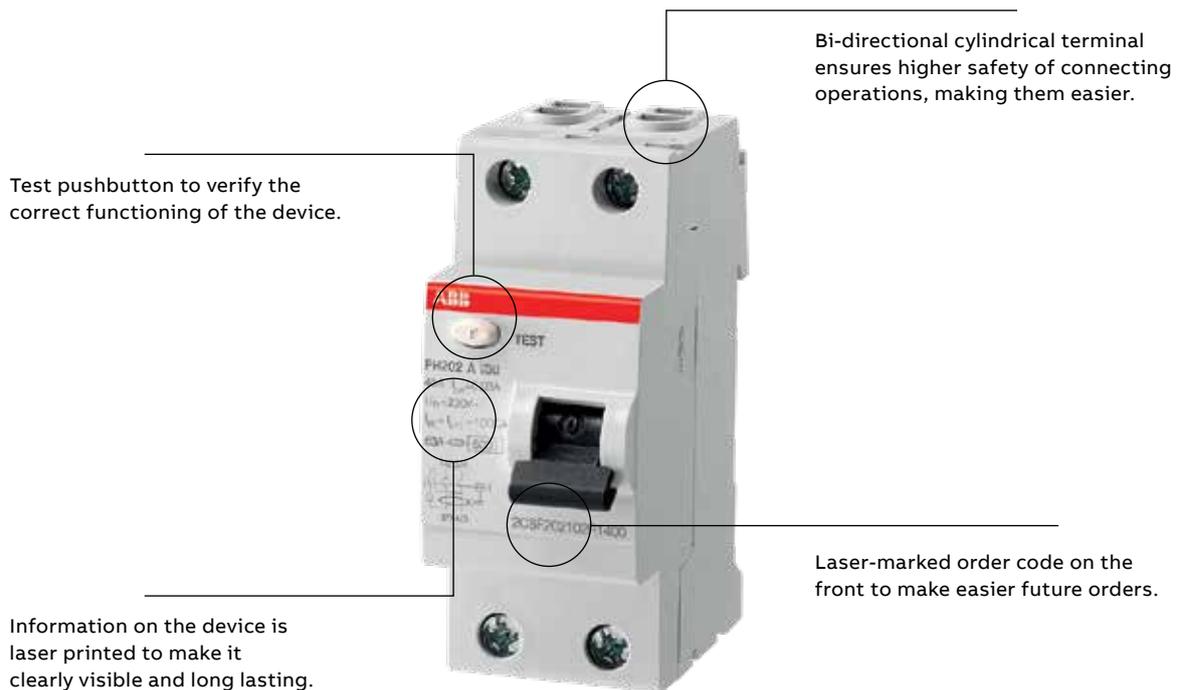
Change over switch

Description	Ordering code	Unit L.P. (₹)
E213-16-002, double pole change over switch, 16 A (I-II)	2CCA703045R0001	2,050
E213-25-002, double pole change over switch, 25 A (I-II)	2CCA703046R0001	2,550
E214-16-202, group switch, 16 A (I-O-II)	2CCA703030R0001	2,315
E214-25-202, group switch, 25 A (I-O-II)	2CCA703031R0001	2,585

■ Stock items

Residual current circuit breaker (RCCB)

FH200 Series



Technical data	FH200
Standards	IEC/EN 61008; IS 12640-1: 2008
Type (wave form of the earth leakage sensed)	AC
Poles	2P, 4P
Rated current I_n	25, 40, 63 A
Rated sensitivity $I_{\Delta n}$	30, 100, 300 mA
Rated voltage U_e	230/400 - 240/415 V
Insulation voltage U_i	500 V
Max. operating voltage of circuit test	254 V
Min. operating voltage of circuit test	110 V
Rated frequency	50..60 Hz
Dielectric test voltage at ind. freq. for 1 min.	2.5 kV
Mechanical features	
Toggle	BLACK sealable in ON-OFF position
Contact position indicator (CPI)	not available
Ambient temperature (with daily average $\leq +35^\circ\text{C}$)	-5..... +40°C
Storage temperature	-40..... +70°C
Installation	
Terminal type	Failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)
Terminal size top/bottom for cable	25/25 mm ²
Terminal size top/bottom for busbar	10/10 mm ²
Tightening torque	2.8 N*m
Connection	from top and bottom
Accessories mountability	No

Residual current circuit breaker (RCCB) 1SYF202006R1400

FH200 series



FH202 AC

Two pole

Product description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
FH202 AC-25/0.03	25	30	1	1SYF202006R1250 ■	2,440
FH202 AC-25/0.1	25	100	1	1SYF202006R2250 ■	2,585
FH202 AC-25/0.3	25	300	1	1SYF202006R3250	2,605
FH202 AC-40/0.03	40	30	1	1SYF202006R1400 ■	2,695
FH202 AC-40/0.1	40	100	1	1SYF202006R2400 ■	2,815
FH202 AC-40/0.3	40	300	1	1SYF202006R3400	2,825
FH202 AC-63/0.03	63	30	1	1SYF202006R1630 ■	3,200
FH202 AC-63/0.1	63	100	1	1SYF202006R2630 ■	3,465
FH202 AC-63/0.3	63	300	1	1SYF202006R3630	3,520



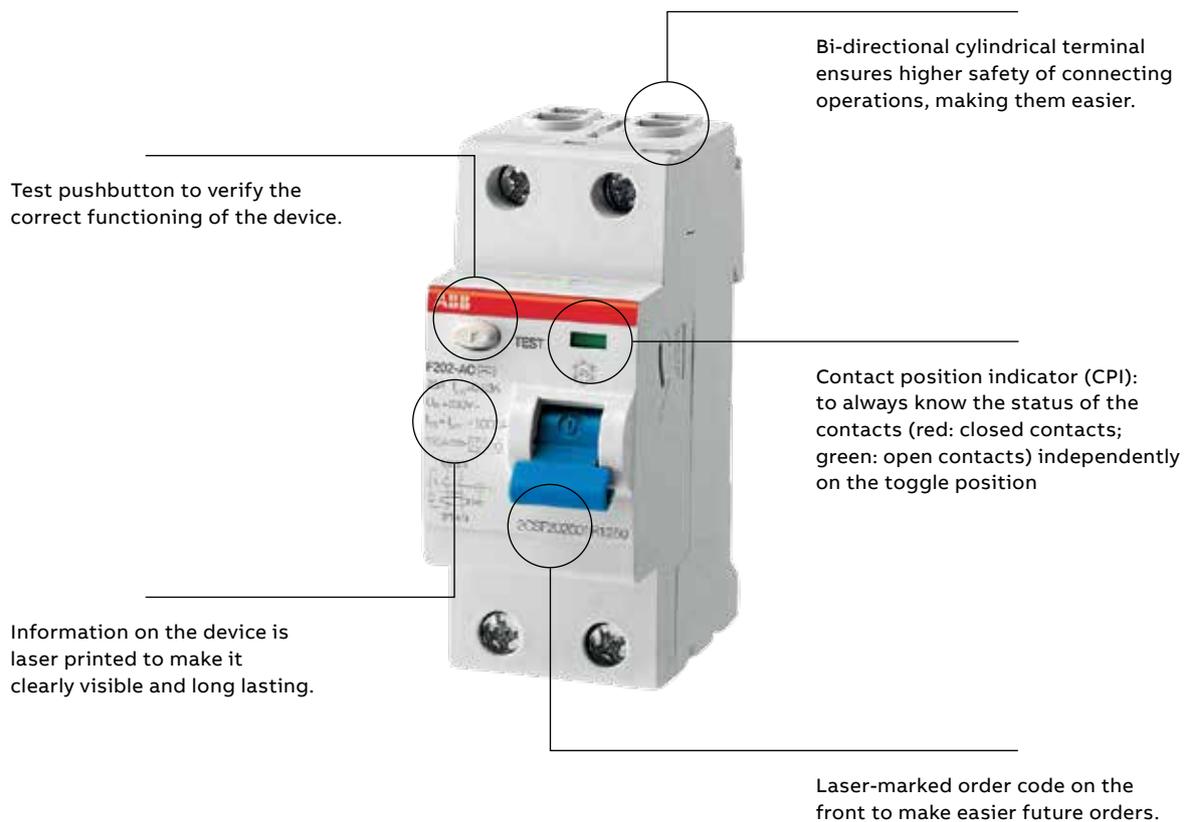
FH204 AC

Four pole

Product description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
FH204 AC-25/0.03	25	30	1	1SYF204006R1250	3,195
FH204 AC-25/0.1	25	100	1	1SYF204006R2250	3,325
FH204 AC-25/0.3	25	300	1	1SYF204006R3250	3,350
FH204 AC-40/0.03	40	30	1	1SYF204006R1400 ■	3,275
FH204 AC-40/0.1	40	100	1	1SYF204006R2400 ■	3,375
FH204 AC-40/0.3	40	300	1	1SYF204006R3400 ■	3,470
FH204 AC-63/0.03	63	30	1	1SYF204006R1630	3,630
FH204 AC-63/0.1	63	100	1	1SYF204006R2630 ■	3,805
FH204 AC-63/0.3	63	300	1	1SYF204006R3630 ■	3,925

Residual current circuit breaker (RCCB)

F200 series



Technical data	F200
Standards	IEC/EN 61008; IS 12640-1: 2008
Type (wave form of the earth leakage sensed)	AC
Poles	2P, 4P
Rated current I_n	25, 40, 63, 80, 100 & 125 A
Rated sensitivity $I_{\Delta n}$	30, 100, 300 mA
Rated voltage U_e	230/400 - 240/415 V
Insulation voltage U_i	500 V
Max. operating voltage of circuit test	254 V
Min. operating voltage of circuit test	110 V
Rated frequency	50..60 Hz
Dielectric test voltage at ind. freq. for 1 min.	2.5 kV
Mechanical features	
Toggle	BLUE sealable in ON-OFF position
Contact position indicator (CPI)	yes
Ambient temperature (with daily average $\leq +35$ °C)	-25..+55 °C
Storage temperature	-40...+70 °C
Installation	
Terminal type	Failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)
Terminal size top/bottom for cable	25/25 mm ²
Terminal size top/bottom for busbar	10/10 mm ²
Tightening torque	2.8 N*m
Connection	from top and bottom
Accessories mountability	Yes

Residual current circuit breaker (RCCB)

F200 series



F202 AC

Two pole

Product Description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
F202 AC-25/0,03	25	30	1	1SYF202005R1250 ■	2,775
F202 AC-25/0,1	25	100	1	1SYF202005R2250 ■	2,860
F202 AC-25/0,3	25	300	1	1SYF202005R3250 ■	3,045
F202 AC-40/0,03	40	30	1	1SYF202005R1400 ■	3,005
F202 AC-40/0,1	40	100	1	1SYF202005R2400 ■	3,460
F202 AC-40/0,3	40	300	1	1SYF202005R3400 ■	3,480
F202 AC-63/0,03	63	30	1	1SYF202005R1630 ■	3,500
F202 AC-63/0,1	63	100	1	1SYF202005R2630 ■	3,745
F202 AC-63/0,3	63	300	1	1SYF202005R3630 ■	3,990
F202 AC-80/0,03	80	30	1	2CSF202005R1800	8,985
F202 AC-80/0,1	80	100	1	2CSF202005R2800	8,910
F202 AC-80/0,3	80	300	1	2CSF202005R3800	8,910
F202 AC-100/0,03	100	30	1	2CSF202005R1900	8,045
F202 AC-100/0,1	100	100	1	2CSF202005R2900	8,420
F202 AC-100/0,3	100	300	1	2CSF202005R3900	9,125



F204 AC

Four pole

Product Description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit M.R.P.(₹)
F204 AC-25/0,03	25	30	1	1SYF204005R1250	3,980
F204 AC-25/0,1	25	100	1	1SYF204005R2250	4,060
F204 AC-25/0,3	25	300	1	1SYF204005R3250	4,285
F204 AC-40/0,03	40	30	1	1SYF204005R1400 ■	3,770
F204 AC-40/0,1	40	100	1	1SYF204005R2400 ■	3,915
F204 AC-40/0,3	40	300	1	1SYF204005R3400 ■	4,245
F204 AC-63/0,03	63	30	1	1SYF204005R1630	4,370
F204 AC-63/0,1	63	100	1	1SYF204005R2630 ■	4,575
F204 AC-63/0,3	63	300	1	1SYF204005R3630 ■	4,710
F204 AC-80/0,03	80	30	1	2CSF204005R1800	9,525
F204 AC-80/0,1	80	100	1	2CSF204005R2800	9,955
F204 AC-80/0,3	80	300	1	2CSF204005R3800	10,055
F204 AC-100/0,03	100	30	1	2CSF204005R1900	9,685
F204 AC-100/0,1	100	100	1	2CSF204005R2900	10,770
F204 AC-100/0,3	100	300	1	2CSF204005R3900	10,505
F204 AC-125/0,03	125	30	1	2CSF204001R1950	13,740
F204 AC-125/0,1	125	100	1	2CSF204001R2950	16,180
F204 AC-125/0,3	125	300	1	2CSF204001R3950	35,000

■ Stock items

Residual current circuit breaker with overcurrent protection

RCBO - DS200M series



DS201M 1P+N

Features

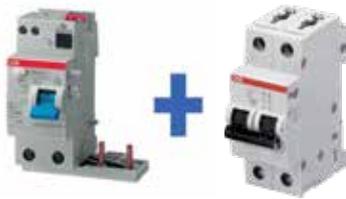
- Complies to standard to IEC/EN 61009
- DS201 available in 4.5kA, 6kA & 10kA breaking capacity
- Available in AC, A and APR types to meet all protection needs
- B and C characteristics with rated current up to 40 A available on all the versions
- Contact position indicator (CPI) to indicate the exact information of the circuit-breaker status
- Equipped with an RFID tag according to standard ISO/IEC FCD 15693-3 to authenticate the product
- Bi-directional cylinder-lift terminals for easier parallel feed
- Flag indicators - Differential trip indicator - blue
- Contact position indicator - green / red

RCBO 10kA AC Type - DS200M

Description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
DS201 M C6 AC30	6	30	1	2CSR275040R1064	3,300
DS201 M C6 AC100	6	100	1	2CSR275040R2064	3,430
DS201 M C6 AC300	6	300	1	2CSR275040R3064	3,610
DS201 M C10 AC30	10	30	1	2CSR275040R1104	3,250
DS201 M C10 AC100	10	100	1	2CSR275040R2104	3,380
DS201 M C10 AC300	10	300	1	2CSR275040R3104	3,560
DS201 M C16 AC30	16	30	1	2CSR275040R1164	3,195
DS201 M C16 AC100	16	100	1	2CSR275040R2164	3,330
DS201 M C16 AC300	16	300	1	2CSR275040R3164	3,510
DS201 M C20 AC30	20	30	1	2CSR275040R1204	3,195
DS201 M C20 AC100	20	100	1	2CSR275040R2204	3,330
DS201 M C20 AC300	20	300	1	2CSR275040R3204	3,510
DS201 M C25 AC30	25	30	1	2CSR275040R1254 ■	3,195
DS201 M C25 AC100	25	100	1	2CSR275040R2254 ■	3,330
DS201 M C25 AC300	25	300	1	2CSR275040R3254	3,510
DS201 M C32 AC30	32	30	1	2CSR275040R1324	3,470
DS201 M C32 AC100	32	100	1	2CSR275040R2324	3,565
DS201 M C32 AC300	32	300	1	2CSR275040R3324	3,685
DS201 M C40 AC30	40	30	1	2CSR275040R1404 ■	4,010
DS201 M C40 AC100	40	100	1	2CSR275040R2404 ■	4,120
DS201 M C40 AC300	40	300	1	2CSR275040R3404	4,230

Residual current circuit breaker with overcurrent protection

RCD blocks - DDA200 series



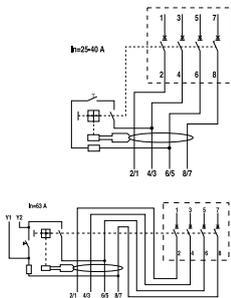
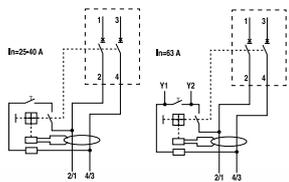
DDA - 200 AC type

Function: RCD-block for assembly on site with MCBs S 200M series. Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n}=30$ mA) contacts.

Standard: IEC/EN 61009 Ann. G



DDA202 AC



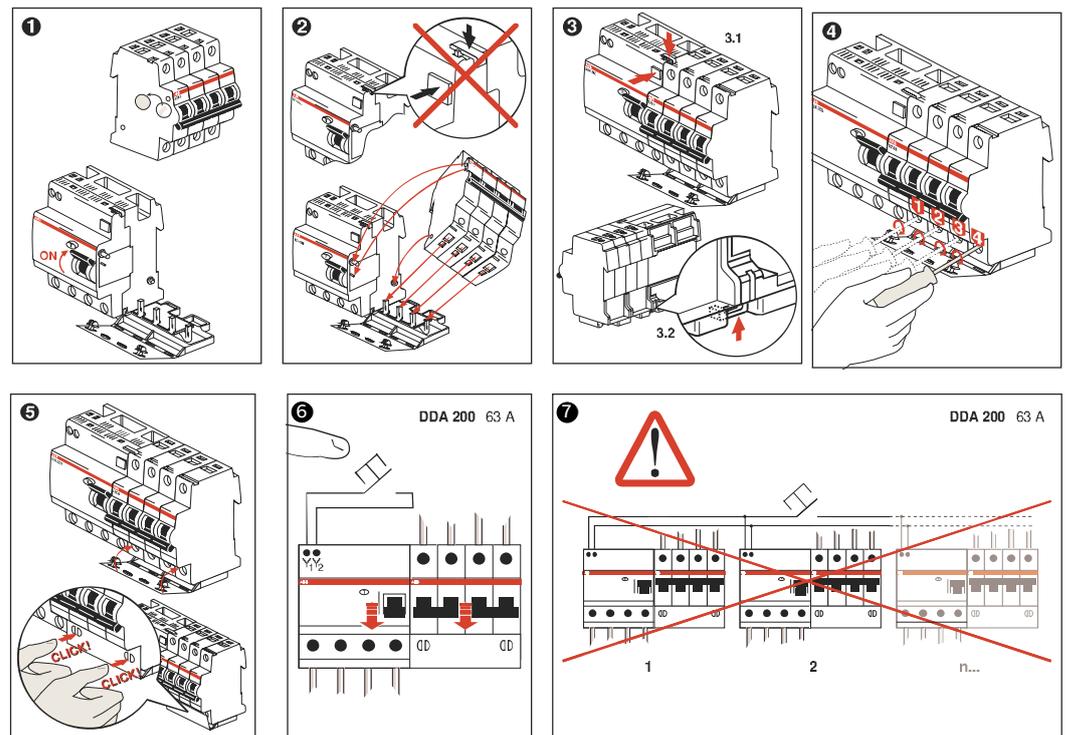
DDA 200 AC

Two pole

Description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
DDA202 AC-63/0.03	63	30	1	2CSB202001R1630 ■	2,985
DDA202 AC-63/0.1	63	100	1	2CSB202001R2630 ■	3,635
DDA202 AC-63/0.3	63	300	1	2CSB202001R3630	3,650

Four pole

Description	Current rating (A)	Residual rated current (mA)	Pack unit (Pc)	Ordering code	Unit L.P. (₹)
DDA204 AC-25/0.03	25	30	1	2CSB204001R1250	2,800
DDA204 AC-40/0.03	40	30	1	2CSB204001R1400 ■	2,905
DDA204 AC-63/0.03	63	30	1	2CSB204001R1630 ■	3,075
DDA204 AC-25/0.1	25	100	1	2CSB204001R2250	3,115
DDA204 AC-40/0.1	40	100	1	2CSB204001R2400 ■	3,310
DDA204 AC-63/0.1	63	100	1	2CSB204001R2630 ■	3,960
DDA204 AC-25/0.3	25	300	1	2CSB204001R3250	3,195
DDA204 AC-40/0.3	40	300	1	2CSB204001R3400 ■	3,435
DDA204 AC-63/0.3	63	300	1	2CSB204001R3630 ■	3,815



■ Stock items

Solution for unwanted tripping - AP-R type (high immunity)

RCCB / RCBO

The ABB range of AP-R anti-disturbance residual current circuit-breakers and blocks was designed to overcome the problem of unwanted tripping due to overvoltages of atmospheric or operation origin.

The electronic circuit in these devices can distinguish between temporary leakage caused by disturbances on the mains and permanent leakage due to actual faults, only breaking the circuit in the latter case.

AP-R residual current circuit-breakers and blocks have a slight delay into the tripping time, but this does not compromise the safety limits set by the Standards in force (release time at $2 I\Delta n=150$ ms).

Compared with standard type breakers, AP-R residual current breakers are therefore characterised, for any given sensibility, by:

- Higher residual trip current
- Tripping time delay
- Better resistance to overvoltages, harmonics and impulse disturbances.

Guaranteeing conventional residual current protection, their installation in the electrical circuit therefore allows any unwanted tripping to be avoided in domestic and industrial systems in which service continuity is essential.

This delay makes the AP-R residual current devices especially suited for installations involving motor starters/variable speed drives, fluorescent lamps or IT/electronic equipment.

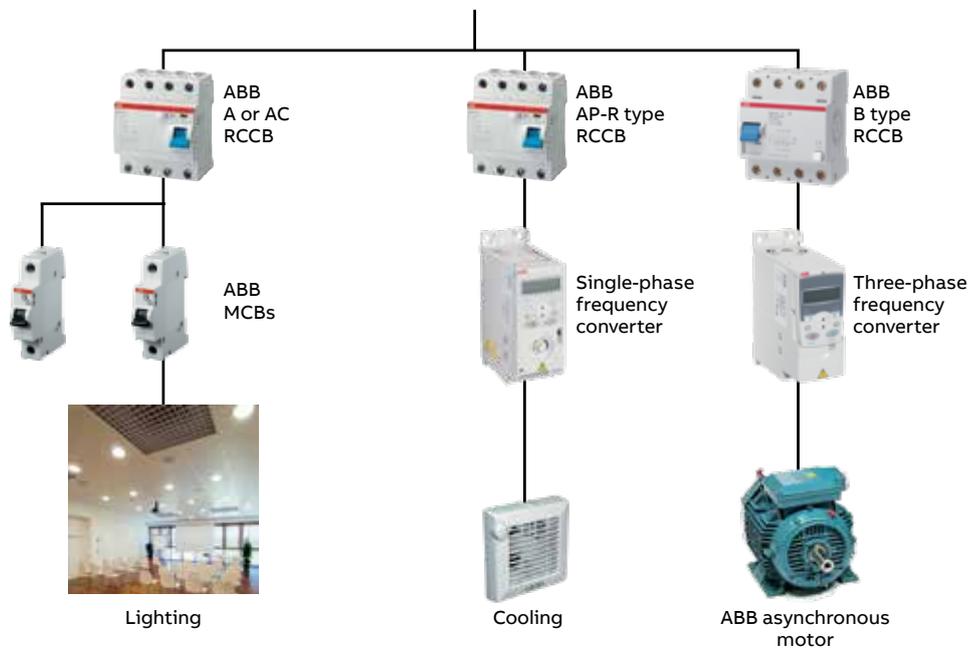
The use of multiple electronic reactors for the supply of fluorescent lamps instead generates permanent leakage currents and inrush currents that can cause nuisance tripping of a standard residual current circuit breaker.

IT system loads and other electronic equipment (e.g. dimmers, computers, inverters) with capacitive input filters connected between the phases and ground can also generate permanent earth leakage currents whose sum may provoke the nuisance tripping of a standard residual current circuit breaker. For these situations, the AP-R breakers allow a greater number of devices to be connected to the installation.

Frequency converters include a rectifier section and an inverter section.

In case of fault within a single-phase frequency converter AP-R type RCDs provide complete protection, because an earth fault occurring downstream the inverter, produces an earth fault current with multi-frequency shape with high amount of harmonics.

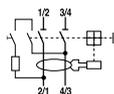
While, in case of fault within a three-phase frequency converter, B type RCDs ensure complete protection because in case of insulation fault between the rectifier and the inverter or downstream the inverter we can have a smooth DC earth fault current.



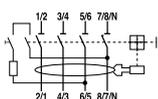
RCCB - F200 series: AP-R (high immunity)



F202A



F204A



Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service, thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct ($I_{\Delta n}=30$ mA) contacts.

Application: residential, commercial, industrial. Standard: IEC/EN 61008

Surge current resistance (wave 8/20)=3000 A Marking: according to EN 61008

RCCB - F200 series

Description	Current rating (A)	Residual rated current (mA)	Packing	Ordering code	Unit L.P. (₹)
Two pole					
F202 A-25/0.03 AP-R	25	30	1	2CSF202401R1250	5,590
F202 A-40/0.03 AP-R	40	30	1	2CSF202401R1400	5,885
F202 A-63/0.03 AP-R	63	30	1	2CSF202401R1630	7,105

Four pole

F204 A-25/0.03 AP-R	25	30	1	2CSF204401R1250	6,870
F204 A-40/0.03 AP-R	40	30	1	2CSF204401R1400	7,065
F204 A-63/0.03 AP-R	63	30	1	2CSF204401R1630	8,020

RCBO - DS200 series APR type (high immunity)

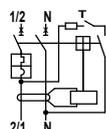
Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct ($I_{\Delta n}=30$ mA) contact; protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial. Standard: IEC/EN 61009

$I_{cn}=10$ kA



DS201M APR-1P+N

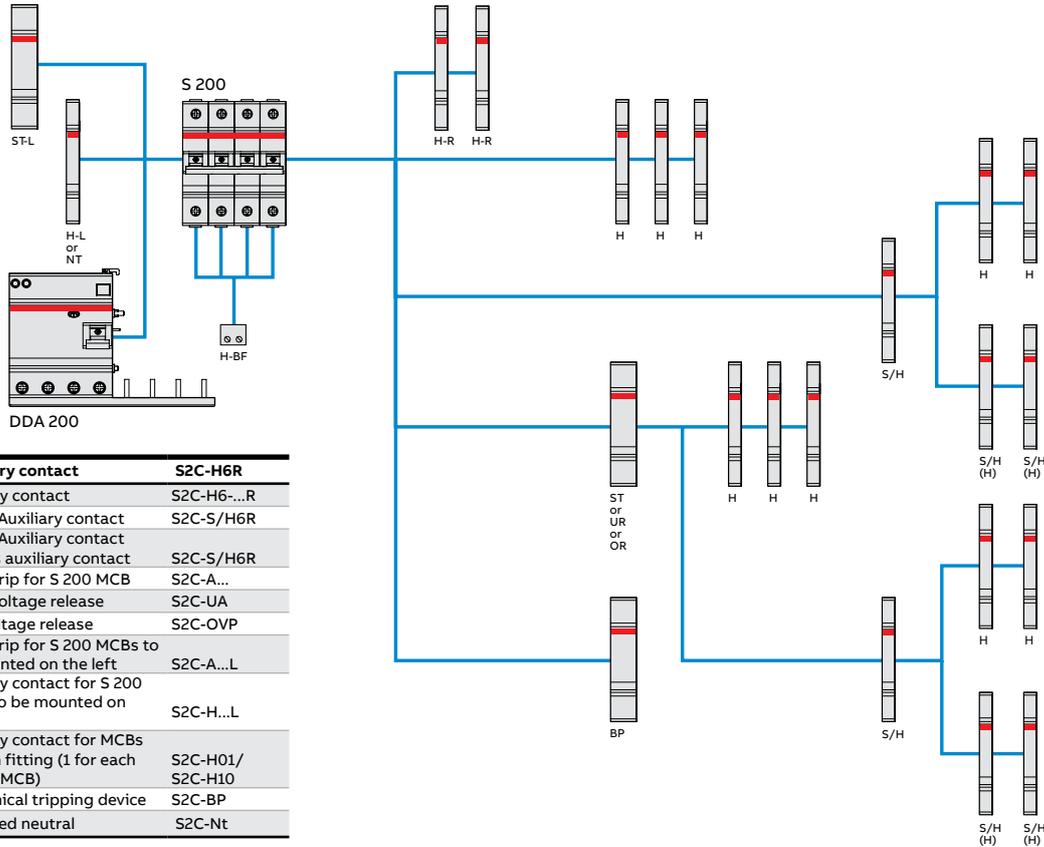


RCBO - DS200 series APR type

Description	Current rating (A)	Residual rated current (mA)	Packing	Ordering code	Unit L.P. (₹)
DS201 M C6 APR30	6	30	1	2CSR275440R1064	
DS201 M C10 APR30	10	30	1	2CSR275440R1104	
DS201 M C16 APR30	16	30	1	2CSR275440R1164	5,935
DS201 M C20 APR30	20	30	1	2CSR275440R1204	
DS201 M C25 APR30	25	30	1	2CSR275440R1254	
DS201 M C32 APR30	32	30	1	2CSR275440R1324	6,135
DS201 M C40 APR30	40	30	1	2CSR275440R1404	6,165
DS201 M C6 APR100	6	100	1	2CSR275440R2064	
DS201 M C10 APR100	10	100	1	2CSR275440R2104	
DS201 M C16 APR100	16	100	1	2CSR275440R2164	6,955
DS201 M C20 APR100	20	100	1	2CSR275440R2204	
DS201 M C25 APR100	25	100	1	2CSR275440R2254	
DS201 M C32 APR100	32	100	1	2CSR275440R2324	7,085
DS201 M C40 APR100	40	100	1	2CSR275440R2404	7,215
DS201 M C6 APR300	6	300	1	2CSR275440R3064	
DS201 M C10 APR300	10	300	1	2CSR275440R3104	
DS201 M C16 APR300	16	300	1	2CSR275440R3164	7,345
DS201 M C20 APR300	20	300	1	2CSR275440R3204	
DS201 M C25 APR300	25	300	1	2CSR275440R3254	
DS201 M C32 APR300	32	300	1	2CSR275440R3324	8,290
DS201 M C40 APR300	40	300	1	2CSR275440R3404	

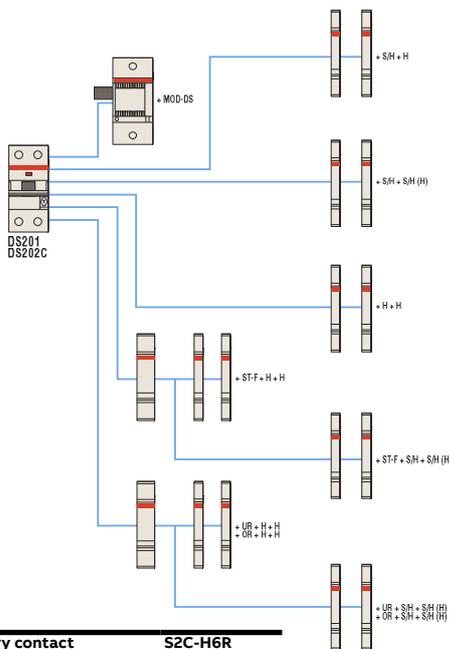
Auxiliary elements and accessories for MCBs S200, RCDs F200 and DS200 series

Combination of auxiliary elements with S200, DDA200 + S200 or DS200



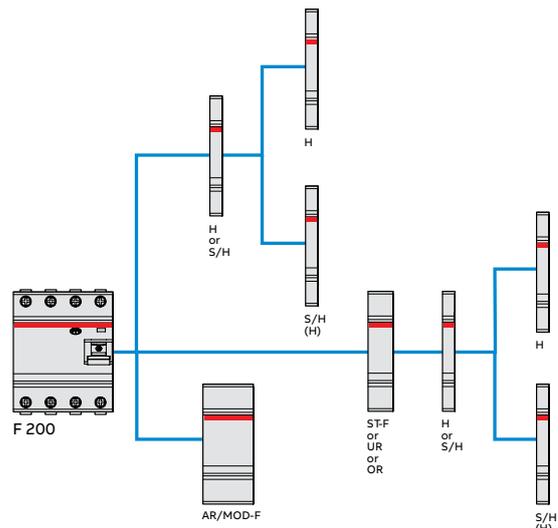
H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST	Shunt trip for S 200 MCB	S2C-A...
UR	Undervoltage release	S2C-UA
OR	Overtoltage release	S2C-OVP
ST-L	Shunt trip for S 200 MCBs to be mounted on the left	S2C-A...L
H-L	Auxiliary contact for S 200 MCBs to be mounted on the left	S2C-H...L
H-BF	Auxiliary contact for MCBs bottom fitting (1 for each pole of MCB)	S2C-H01/S2C-H10
BP	Mechanical tripping device	S2C-BP
NT	Switched neutral	S2C-Nt

Combination of auxiliary elements with DS201, DS202C



H	Auxiliary contact	S2C-H6R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST-F	Shunt trip for F 200 RCCB	F2C-A
UR	Undervoltage release	S2C-UA
OR	Overtoltage release	S2C-OVP
MOD-DS	Motor operating device	DS2C-CM

Combination of auxiliary elements with F200



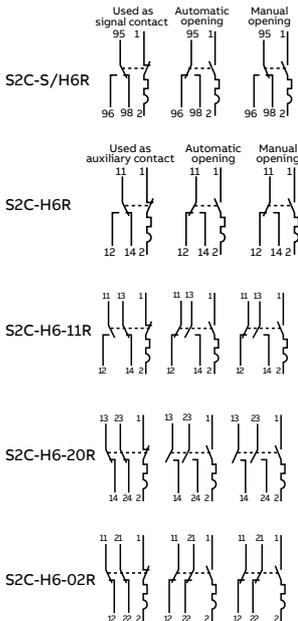
H	Auxiliary contact	S2C-H6R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
UR	Undervoltage release	S2C-UA
OR	Overtoltage release	S2C-OVP
AR	Auto reclosing unit	F2C-ARI
MOD-F	Motor operating device	F2C-CM
ST-F	Shunt trip for F 200 RCCB	F2C-A

Selection tables



S2C-S/H6R

S2C-H6-...



Signal/auxiliary contacts

Function S2C-S/H6R: choice through a selector between indication of the position of the device's contacts and signalling of the fault (overcurrent/short-circuit for MCBs and RCBOs; earth fault for RCCBs and RCBOs). Suitable for MCBs S 200 series, RCCBs F 200 series, RCBOs DS201, DS202C, DS 200 series.

Function S2C-H6R: indication of the position of the device's contacts. Suitable for MCBs S200 series. To be mounted on the left side of the MCBs, thanks to the special pin. They are not suitable to be mounted together with RCD-block DDA200.

Function S2C-H6-xxR: indication of the position of the MCB contact. Mounted on the right side. They are not suitable to be mounted together with other right side mounted auxiliary contacts.

Description	Order details	Packing	Ordering code	Unit LP (₹)
Auxiliary Contact, 1CO (Right side)	S2C-H6R	1	2CDS200912R0001	750
Auxiliary Contact, 1NO / 1NC (Right side)	S2C-H6-11R	1	2CDS200946R0001 ■	760
Auxiliary Contact, 2NO (Right side)	S2C-H6-20R	1	2CDS200946R0002 ■	770
Auxiliary Contact, 2NC (Right side)	S2C-H6-02R	1	2CDS200946R0003 ■	770
Signal contact / Auxiliary switch, 1CO (Right side)	S2C-S/H6R	1	2CDS200922R0001 ■	1,340

Auxiliary contacts mounting on the left side

Description	Order details	Packing	Ordering code	Unit LP (₹)
Auxiliary Contact, 1NO / 1NC (Left side)	S2C-H11L	1	2CDS200936R0001 ■	870
Auxiliary Contact, 2NO (Left side)	S2C-H20L	1	2CDS200936R0002 ■	850
Auxiliary Contact, 2NC (Left side)	S2C-H02L	1	2CDS200936R0003 ■	850

Bottom-fitting auxiliary contacts for S200, S200M, S200P, S200S

Description	Order details	Packing	Ordering code	Unit LP (₹)
Bottom fitting Aux contact, 1NC	S2C-H01	1	2CDS200970R0001	1,185
Bottom fitting Aux contact, 1NO	S2C-H10	1	2CDS200970R0002	1,185



S2C-H

Shunt trips

Function: remote opening of the device when a voltage is applied. Suitable for MCBs S200 series and RCBOs DS200 series.

Description	Order details	Packing	Ordering code	Unit LP (₹)
Shunt Trip, 12...60V AC/DC	S2C-A1	1	2CDS200909R0001 ■	3,355
Shunt Trip, 110...415V AC, 110...250 DC	S2C-A2	1	2CDS200909R0002 ■	3,355



S2C-A

Function: remote opening of the device when a voltage is applied. Suitable for RCCBs F200 series and RCBOs DS201 and DS202C.

It can be used with MCBs SN201 series by means of SN201-IH interface module.

Description	Order details	Packing	Ordering code	Unit LP (₹)
Shunt Trip, 12...60V AC/DC	F2C-A1	1	2CSS200933R0011	4,085
Shunt Trip, 110...415V AC/ 110...250V DC	F2C-A2	1	2CSS200933R0012 ■	4,085



F2C-A

■ Stock items

Auxiliary elements for MCBs S200, RCDs F200 and DS200

Selection tables

Undervoltage releases

Function: protection of the load in the event of a voltage drop (between 70% and 35% of its rated value); positive safety (device's tripping when the voltage is disconnected) emergency stop by means of a button. Suitable for MCBs S200 series, RCCBs F200 series and RCBOs DS201, DS202C, DS200 series It can be used with MCBs SN201 series by means of SN201-IH interface module.



S2C-UA

Description	Order details	Packing	Ordering code	Unit LP (₹)
Undervoltage Release, 12V DC	S2C-UA 12 DC	1	2CSS200911R0001	4,305
Undervoltage Release, 24V AC	S2C-UA 24 AC	1	2CSS200911R0002	
Undervoltage Release, 24V DC	S2C-UA 24 DC	1	2CSS200911R0007	
Undervoltage Release, 48V AC	S2C-UA 48 AC	1	2CSS200911R0003	
Undervoltage Release, 48V DC	S2C-UA 48 DC	1	2CSS200911R0008	
Undervoltage Release, 110V AC	S2C-UA 110 AC	1	2CSS200911R0004	
Undervoltage Release, 110V DC	S2C-UA 110 DC	1	2CSS200911R0009	
Undervoltage Release, 230V AC	S2C-UA 230 AC	1	2CSS200911R0005 ■	
Undervoltage Release, 230V DC	S2C-UA 230 DC	1	2CSS200911R0010	
Undervoltage Release, 400V AC	S2C-UA 400 AC	1	2CSS200911R0006 ■	

Overvoltage releases

Function: monitoring voltage between the neutral and phase; when an overvoltage reaches the threshold value, the OVP device causes the tripping of the associated MCB or RCCB.

Suitable for MCBs of the S200 series up to 63 A, and RCCBs of the F200 series up to 100 A and RCBOs DS201 and DS202C series.



S2C-OVP

Description	Order details	Packing	Ordering code	Unit LP (₹)
Over Voltage Release (Max tripping : 275 V AC)	S2C-OVP1	1	2CSS200910R0005	5,130
Over Voltage Release (Max tripping : 290 V AC)	S2C-OVP2	1	2CSS200993R0005	

Hand operated neutral

The hand operated neutral has to be mounted to the left side of the MCB and be snapped on the DIN rail. It is used for measuring duties where the neutral conductor must be in the open position. Due to the special design of the handle - when switching ON the MCB - the neutral will make before the MCB is closed.

The S2C - Nt is not to switch with a tool (screw driver).



S2C-NT

Description	Order details	Packing	Ordering code	Unit LP (₹)
Hand operated neutral (Right side)	S2C-NT	1	2CDS200918R0001	770

Auxiliary elements for MCBs S800 series



S800-AUX

Auxiliary contact

Description	Order details	Packing	Ordering code	Unit LP (₹)
Auxiliary contact	S800-AUX	1	2CCS800900R0011	2,625



S800-AUX/ALT

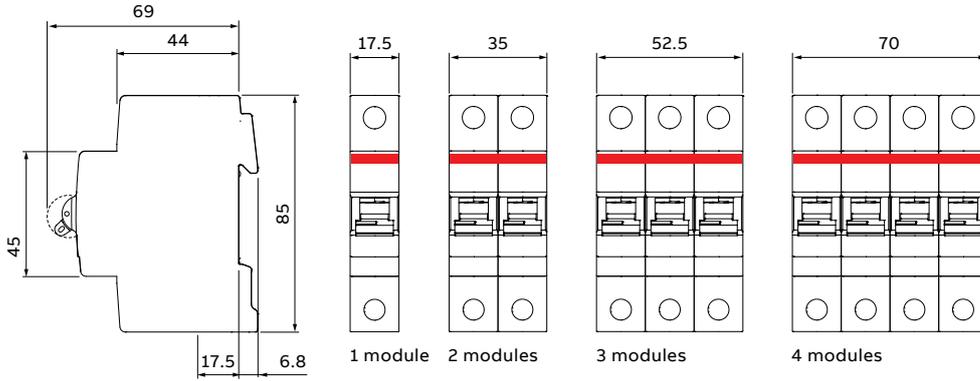
Combined auxiliary and signal contact

Description	Order details	Packing	Ordering Code	Unit LP (₹)
Auxiliary/signal contact	S800-AUX/ALT	1	2CCS800900R0021	3,135

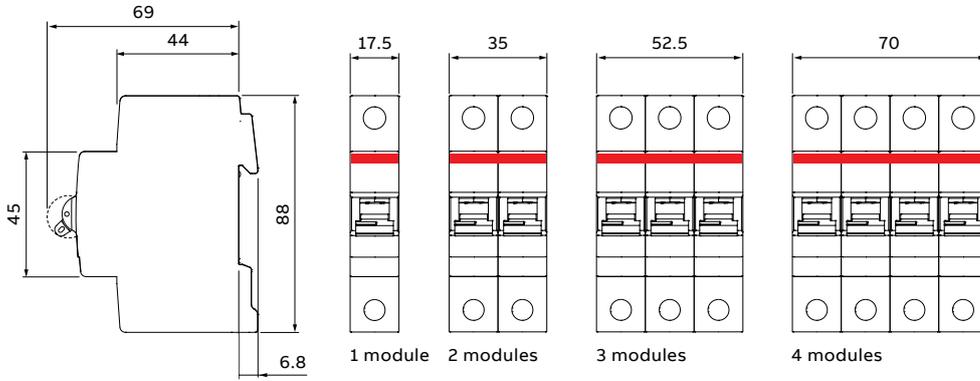
■ Stock items

Overall dimensions

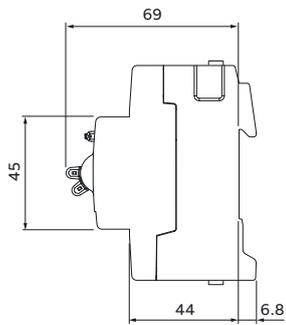
MCB - (SH200) and Isolator (SHD)



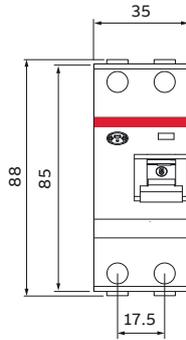
MCB - (S200)



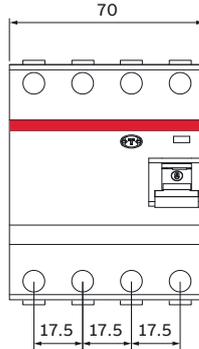
RCCB - (F200)



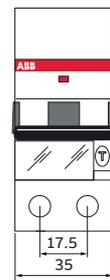
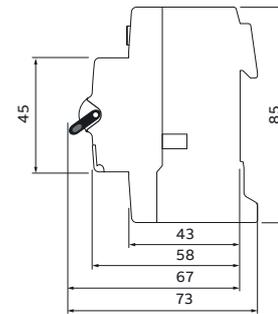
Two pole



Four pole



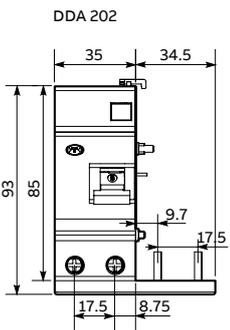
RCBO (DS200)



DDA 200

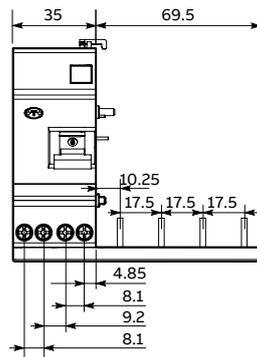
Two pole

In=25-63 A



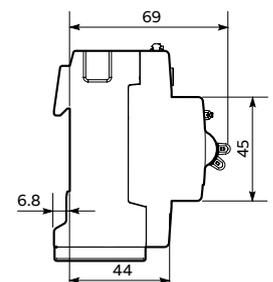
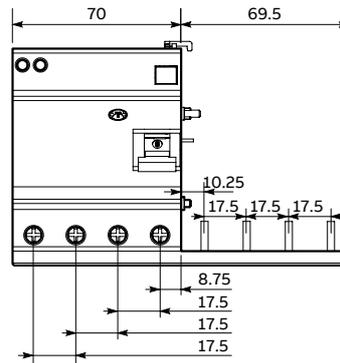
Four pole

In=25-40 A

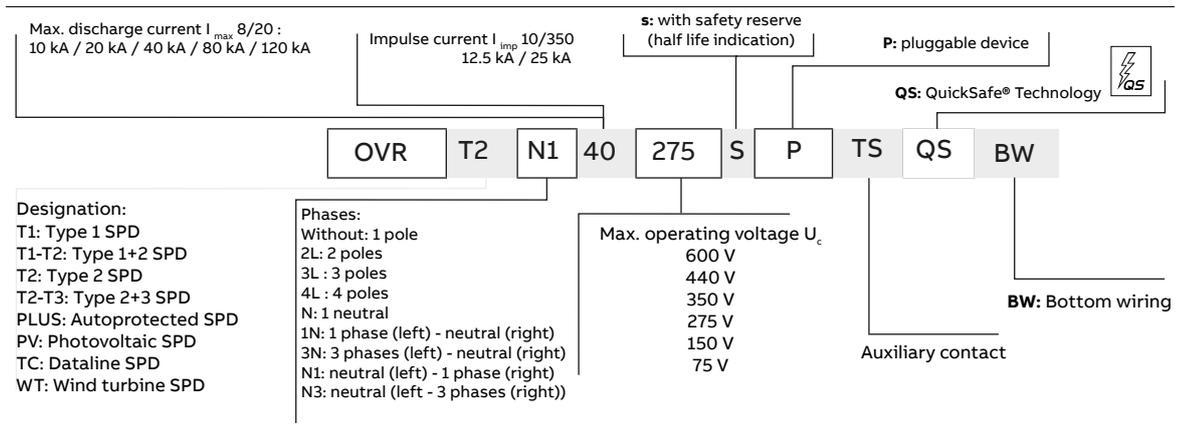


Four pole

In=63 A



Surge protection devices - The new OVR QuickSafe®



Type 1 - Spark gap type

Type 1 SPDs can be installed at the entrance in the main switch board for protection of electrical installation and equipments against direct lightning surges.



OVR Type 1

Three pole + Neutral

Description	Max. continuous operating voltage U_c (V)	"I imp in kA (10/350us wave)"	"I max in kA (8/20us wave)"	Pole	No of modules	Ordering code	Unit LP (₹)
OVR T1 3N 25 255-7 (TT)	255	25	-	3+1	4	2CTB815101R8800	31,090
OVR T1 3N 25 255 (TT)	255	25	-	3+1	4	2CTB815101R1600	62,151
OVR T1 3N 25 255 TS (TT)	255	25	-	3+1	5	2CTB815101R0700	62,525

Type 1+2 - Metal Oxide Varistor

Type 1+2 surge protective devices are designed to discharge high current surges without any destruction of the installation. These surge protective devices are characterized by their capacity to withstand impulse current with 10/350 μ s wave form which simulate natural lightning current.



OVR Type 1

Three pole + Neutral

Description	Max. continuous operating voltage U_c (V)	"I imp in kA (10/350us wave)"	"I max in kA (8/20us wave)"	Pole	No of modules	Ordering code	Unit LP (₹)
OVR T1-T2 3N 12.5-275s P QS	275	12.5	80	3+1	4	2CTB815710R1900	20,055
OVR T1-T2 3N 12.5-275s P TS QS	275	12.5	80	3+1	4	2CTB815710R0700	23,065
OVR T1-T2 3N 12.5-440s P QS	440	12.5	80	3+1	4	2CTB815710R4800	24,065
OVR T1-T2 3N 12.5-440s P TS QS	440	12.5	80	3+1	4	2CTB815710R3600	27,675

Type 2 - Metal oxide varistor

Type 2 SPDs can be installed at the sub-distribution switch board for protection of electrical installation and equipments against indirect lightning and switching surges.

Single pole



OVR Type 2

Description	Max. continuous operating voltage U_c (V)	I max in kA (8/20us wave)	No of Modules	Ordering code	Unit LP (₹)
OVR T2 40-275 P QS	275	40	1	2CTB803871R2300	3,400
OVR T2 40-275s P QS	275	40	1	2CTB815704R1200	5,020
OVR T2 40-275 P TS QS	275	40	1	2CTB803871R1700	4,325
OVR T2 40-440 P QS	440	40	1	2CTB803871R1200	3,465
OVR T2 40-440s P QS	440	40	1	2CTB815704R4100	4,770
OVR T2 80-275s P QS	275	80	1	2CTB815708R1200	5,190
OVR T2 80-275s P TS QS	275	80	1	2CTB815708R0000	6,395
OVR T2 80-440s P QS	440	80	1	2CTB815708R4100	4,695
OVR T2 80-440s P TS QS	440	80	1	2CTB815708R2900	5,890

Surge protection devices (OVR)



OVR Type 2

Single pole + neutral

Description	Max. continuous operating voltage U _c (V)	I max in kA (8/20us wave)	No of Modules	Ordering code	Unit LP (₹)
OVR T2 1N 40-275 P QS	275	40	2	2CTB803972R1100	7,230
OVR T2 1N 40-275s P QS	275	40	2	2CTB815704R1400	9,110
OVR T2 1N 40-275 P TS QS	275	40	2	2CTB803972R0500	8,205
OVR T2 1N 40-275s P TS QS	275	40	2	2CTB815704R0200	9,970
OVR T2 1N 40-350 P QS	350	40	2	2CTB803982R1100	7,810
OVR T2 1N 40-350 P TS QS	350	40	2	2CTB803982R0500	8,860
OVR T2 1N 80-275s P QS	275	80	2	2CTB815708R1400	9,595
OVR T2 1N 80-275s P TS QS	275	80	2	2CTB815708R0200	10,590

Three pole + Neutral



OVR Type 2

Description	Max. continuous operating voltage U _c (V)	I max in kA (8/20us wave)	No of modules	Ordering code	Unit LP (₹)
OVR T2 3N 40-275 P QS	275	40	4	2CTB803973R1100	12,350
OVR T2 3N 40-275s P QS	275	40	4	2CTB815704R2000	17,600
OVR T2 3N 40-275 P TS QS	275	40	4	2CTB803973R0500	15,725
OVR T2 3N 40-275s P TS QS	275	40	4	2CTB815704R0800	20,630
OVR T2 3N 40-350 P QS	350	40	4	2CTB803983R1100	13,340
OVR T2 3N 40-350 P TS QS	350	40	4	2CTB803983R0500	20,025
OVR T2 3N 40-440 P QS	440	40	4	2CTB803973R1400	12,720
OVR T2 3N 40-440 P TS QS	440	40	4	2CTB803973R1500	15,920
OVR T2 3N 40-440s P TS QS	440	40	4	2CTB815704R3700	37,135
OVR T2 3N 80-275s P QS	275	80	4	2CTB815708R2000	18,400
OVR T2 3N 80-275s P TS QS	275	80	4	2CTB815708R0800	21,920
OVR T2 3N 80-440s P QS	440	80	4	2CTB815708R4900	16,060
OVR T2 3N 80-440s P TS QS	440	80	4	2CTB815708R3700	19,380

Surge arrester for photovoltaic applications



OVR PV

Description	Max. continuous operating voltage U _c (V)	I max in kA (8/20us wave)	No. of modules	Ordering code	Unit LP (₹)
OVR PV T2 40-1000 P QS	1100	40	3	2CTB804153R2400	4,525
OVR PV T2 40-1000 P TS QS	1100	40	3	2CTB804153R2500	5,720

Surge arrester for data line protection (Pluggable)



OVR SL

Description	Max. continuous operating voltage U _c (V)	I max in kA (8/20us wave)	Width	Ordering code	Unit LP (₹)
OVR SL06	7.79 V	10 kA	7mm	7TCA085400R0360	9,025
OVR SL15	16.7 V	10 kA	7mm	7TCA085400R0361	7,565
OVR SL30	36.7 V	10 kA	7mm	7TCA085400R0363	7,935
OVR SL50	56.7 V	10 kA	7mm	7TCA085400R0364	7,765
OVR SLTN	296 V	10 kA	7mm	7TCA085400R0323	6,135

D Line. Simply precise

An ideal range for automating the functions of the installation

Sealable glass and keypad lock to prevent tampering by unauthorised personnel

Inputs for the connection of remote controls (i.e. switches and buttons) and for DCF77 or GPS receiver connection

Clear display of each contact status

High contrast LCD monitor for excellent visibility in all conditions due to timed back-lighting

Wide range of programs: standard, cyclic, random and holiday

Permanent or temporary manual deviation, directly activated with a single touch

Programming key slot to run, copy or save programs

Terminals for wires up to 6 mm².



D Line. Simply precise

An ideal range for automating the functions of the installation



D Line

D Line weekly digital time switches

The unique design, with white backlit LCD display, and extreme ease of use with two lines of text menu and only four buttons, make D Line ideal to automate the installation functions. Thanks to the innovative management of time vacation, the D Line digital time switches allow the exclusion of the normal weekly program in one or more periods of several years or between two different years.

Description	Ordering code	Unit LP (₹)
D Line weekly digital time switches-D1, 1 channel	2CSM258763R0621	8,145
D Line weekly digital time switches-D2, 2 channel	2CSM256313R0621	12,725



T Line

T Line modular twilight switches

These twilight switches allow to switch ON and switch OFF lighting devices according to a scheduled level of the ambient light. They are used in combination with an external sensor to detect if the ambient light is higher or lower than the set level. A switching delay prevents them from operating unnecessarily when the light intensity suddenly changes (e.g. lightning, moving vehicles, etc.).

Description	Ordering code	Unit LP (₹)
T Line modular twilight switches 1 channel is preset with a 10 LUX T1	2CSM295563R1341	7,260
"T Line modular twilight switches adjusted for 4 different scale values (2:40, 20:200, 200:2000, 2000:15000) T1 PLUS"	2CSM295793R1341	7,760
T1 POLE twilight switches, installation on the pole/wall, T1 POLE	2CSM295753R1341	6,760
Accessories for T Line modular twilight switches External sensor LS-D	2CSM295723R1341	2,455



TWA

TWA twilight astronomical switches

The twilight astronomical switches TWA-1 and TWA-2, respectively, in 1 and 2 channels, automatically control lighting circuits depending on the time of sunrise and sunset, greatly increasing energy efficiency.

The programming is in fact based on a mathematical algorithm able to calculate the time of the rising and setting of the sun in a certain location for each day of the year. Once powered the device, simply insert date, time, geographical coordinates and time zone so that it is ready to work.

Description	Ordering code	Unit LP (₹)
TWA twilight astronomical switches 1NO/NC TWA-1	2CSM204365R1341	17,645
TWA twilight astronomical switches 2NO/NC TWA-2	2CSM204375R1341	22,025



AT2e-R

AT and ATe electro-mechanical time switches

They control circuit opening and closing according to the scheduled program. Both available on daily and weekly versions and equipped with a 16 A contact, they can be set on the scheduled program or on the permanent ON function (ON-OFF only for two modules versions).

Description	Ordering code	Unit LP (₹)
AT2e-R Daily electro-mechanical time switch, with running reserve, 2 modules, 15 minutes minimum switching time	2CSM231235R0601	3,570



E200

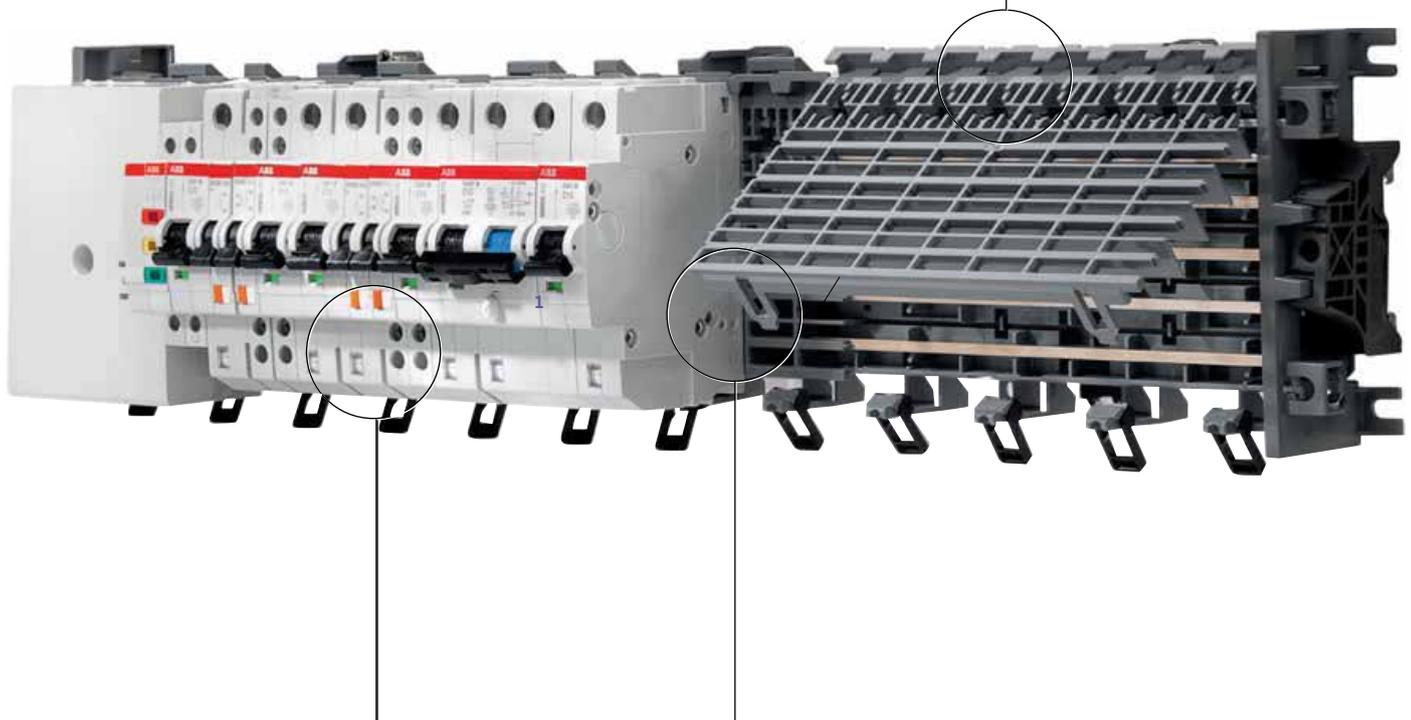
Control and automation components

Description	Ordering code	Unit LP (₹)
E 232-230 staircase lighting time-delay switches, Staircase lighting time-delay switches are usually operated by pushbuttons, often fitted with a glow lamp. Switches are designed for a glow lamp current of up to 150 mA and thus perfectly suitable for installations in multi-storey buildings.	2CDE110000R0501	5,050
The E 232-230 staircase lighting time-delay switch includes an electro-mechanical timer with a synchronous motor drive to ensure high operational safety in whatever mounting position. The time range is adjustable in increments of 15 seconds from 1 to seven minutes. Resettable after 30 seconds	2CDE110003R0511	6,555

SMISLINE TP plug-in system

Changes are never been easier

SMISLINE TP ensures that load-free devices and components can be snapped on and off under voltage without the need for additional personal protective equipment to guard against electrical hazards.



It opens up to a completely new prospects for you when it comes to installation, operation and flexibility.

The world's first pluggable socket system.

SMISLINE TP plug-in system

Changes have never been easier



Even safer: protection against electrical hazards

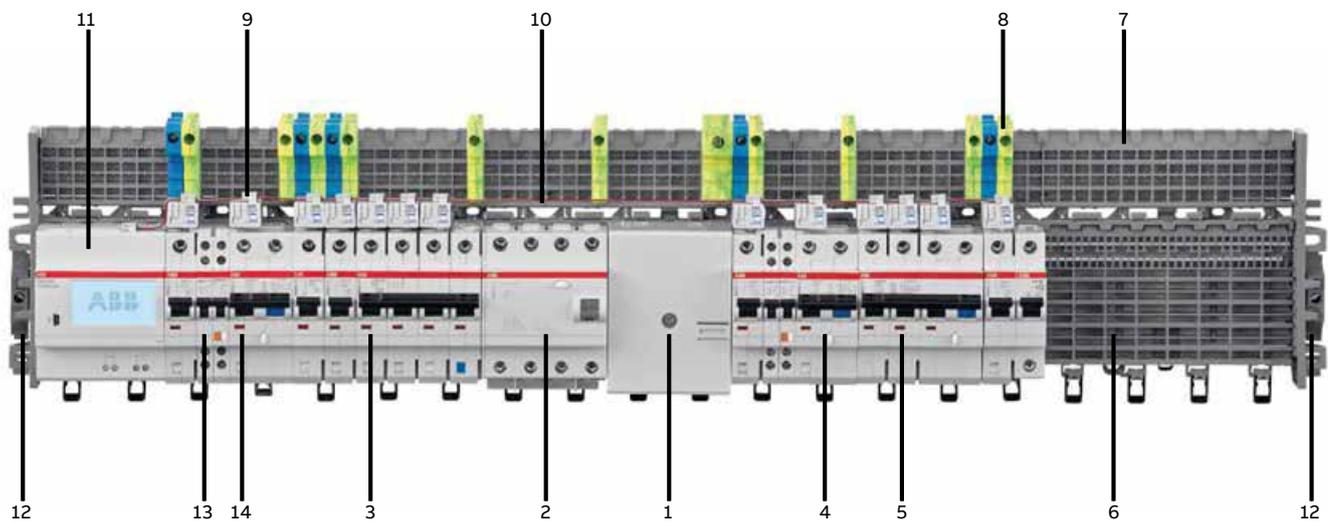
We have upgraded our unique SMISLINE socket system even further through the addition of a pioneering innovation. With the new SMISLINE TP system, components can now be plugged in or unplugged load-free without any risk from electrical current running through the body.

The SMISLINE TP pluggable socket system is completely fingersafe (IP2XB) – when devices are plugged in and unplugged, the system is always touch-proof. This means that SMISLINE TP prevents any danger to personnel from switching arcs or accidental arcing.

Even more flexible: make additions and changes during on-going operation

Pluggable devices can be added and changed quickly, safely and simply during on-going operation. And this can be done without any need for personal protective equipment.

This means that you benefit from more flexibility, savings on installation and maintenance – and improved safety. SMISLINE TP provides greater availability and operating safety than conventional systems.



- | | | |
|------------------------------------|---|----------------------|
| 1 Supply terminal | 6 Socket IP20 | 11 Control unit CMS |
| 2 Surge arrester OVR404 | 7 Additional socket IP20 | 12 Socket end piece |
| 3 Miniature circuit breaker S403NP | 8 Terminals | 13 Auxillary contact |
| 4 RCBO FS401 | 9 Sensor for current measurement system | 14 Signal contact |
| 5 RCBO FS403 | 10 Cabel Bus system CMS | |

ELR, Earth leakage relay - (Front panel mountable)



Front panel residual current relays are electronic devices used in combination with an external toroidal transformer. They are according to the protection standard IEC/EN 60947-2 Annex-M. The sensitivity can be set from 0.03 A to 30 A, while the tripping time from 0 to 5 seconds. Residual current relays are available in versions 48x48 mm, 72x72 mm, and 96x96 mm.

The Fail Safe function is available for versions ELR48P, ELR72P and ELR96P: the contacts switch when there is no auxiliary power.

The ELR96PF version is equipped with Fail Safe function, fault memory LED, and a frequency filter, that ensure continuity of service in the presence of harmonics.

ELR96PD has (in addition to these functions) a digital display for an instantaneous view of the residual current $I_{\Delta n}$.

Description	Operating voltage	Pack	Ordering code	Unit LP (₹)
ELR48P	110 V a.c./d.c. - 230 V a.c.	1	2CSG252211R1202	
ELR48V24P	24-48 V a.c./d.c.	1	2CSG452211R1202	
ELR72	110 V a.c./d.c. - 230 V a.c.	1	2CSG252120R1202	
ELR72V24	24-48 V a.c./d.c.	1	2CSG452120R1202	
ELR72P	110-230-400 V a.c.	1	2CSG152424R1202	
ELR72V24P	24-48 V a.c./d.c.	1	2CSG452424R1202	Upon request
ELR96	110-230-400 V a.c.	1	2CSG152130R1202	
ELR96V24	24-48 V a.c./d.c.	1	2CSG452130R1202	
ELR96P	110-230-400 V a.c.	1	2CSG152434R1202	
ELR96V24P	24-48 V a.c./d.c.	1	2CSG452434R1202	
ELR96PF	110-230-400 V a.c.	1	2CSG152435R1202	
ELR96PD	110-230-400 V a.c.	1	2CSG152436R1202	

RD3, residual current relays - (DIN rail mountable)

The RD3 family of electronic residual current relays provides residual current protection and monitoring functions according to IEC/EN 60947-2:2006 annex M and can be used in conjunction with all S 200 automatic devices and Tmax range moulded case devices up to T5, for industrial installations.

The RD3 residual current relays can provide status indications through two output contacts.

Description	Operating voltage	Pack	Ordering code	Unit LP (₹)
RD3-48	12-48 a.c./d.c.	1	2CSJ201001R0001	
RD3	230-400 a.c.	1	2CSJ201001R0002	
RD3M-48	12-48 a.c./d.c.	1	2CSJ202001R0001	Upon request
RD3M	230-400 a.c.	1	2CSJ202001R0002	
RD3P-48	12-48 a.c./d.c.	1	2CSJ203001R0001	
RD3P	230-400 a.c.	1	2CSJ203001R0002	

Toroidal transformers

Description	Toroid useful diameter (mm)	Min. measurable current (mA)	Max. rated current ¹ (A)	Max. capacity ² (A)	Pack	Ordering code	Unit LP (₹)
TRM	29 (modular version)	30	65	160	1	2CSM029000R1211	
TR1	35	30	75	250	1	2CSG035100R1211	
TR2	60	30	85	400	1	2CSG060100R1211	
TR3	80	100	160	800	1	2CSG080100R1211	
TR4	110	100	250	1,250	1	2CSG110100R1211	
TR4/A	110 (openable version)	300	250	1,250	1	2CSG110200R1211	Upon request
TR160	160	300	400	2,000	1	2CSG160100R1211	
TR160A	160 (openable version)	500	400	2,000	1	2CSG160200R1211	
TR5	210	300	630	3,200	1	2CSG210100R1211	
TR5/A	210 (openable version)	500	630	3,200	1	2CSG210200R1211	

¹ Shows toroidal transformers selection for use with ELR according to IEC/EN 60947-2 Annex M in combination with MCBs S200 range and MCCBs Tmax range upto T5

² Shows the technical features of the toroidal transformers



Measurement devices – DMTME multimeters



DMTME multimeters

The instruments DMTME are digital multimeters that allow the measurement, in TRMS mode, of the principal electrical parameters in three-phase and single-phase 230/400 Vac networks, including the max/min/average detection of the main electrical parameters and the active and reactive energy count. The multiple measured variables are displayed locally on four red 7-segment LED displays providing easy readability and simultaneous display of the measures of the electrical parameters of the phases individually and of the whole network.

The instruments DMTME combine, in a single instrument, the functions of multiple devices: voltmeter, ammeter, power factor meter, wattmeter, varmeter, frequency meter, active and reactive energy meters; it allows remarkable financial savings, thanks to the reduction of space taken up in the panel and also of time required for cabling, along with the advantage of providing clear readings on a single device.



The DMTME-I-485, DMTME-I-485-96 and DMTME-I-485-72 models are additionally equipped with two digital relays, fully programmable as either pulse outputs for remote metering of energy consumption, or as alarm outputs. The output relay can be set as NO or NC.

There is also an RS485 port for communicating the measured parameters and alarms over a Modbus network; used in addition to a converter of the CUS series, it allows direct connection to a central PC for remote supervision and control of the electrical network.

All versions come complete with Mini CD containing the instruction manual, technical documentation, Modbus communication protocol and the DMTME-SW tool, intended to be a first-hand PC-based application for the remote visualization of the measures.



DMTME modular multimeters

TRMS measure of VL-L, VL-N, A, W, Var, VA, kWh, kVar, PF in 230/400 V a.c. lines.

Indirect connection through CT .../5 A. Auxiliary supply at 110 V a.c. and 230 V a.c.

Product description	RS485	Program.	Pack	Ordering code	Unit LP (₹)
DMTME	-	-	1	2CSM170040R1021	Upon request
DMTME-I-485	✓	2	1	2CSM180050R1021	Upon request

DMTME-96 panel multimeters

Auxiliary supply 230 V a.c. and 110 V a.c.

Product description	RS485	Program	Dimension	Pack	Ordering code	Unit LP (₹)
DMTME-96	-	-	96x96	1	2CSG133030R4022	Upon request
DMTME-I-485-96	✓	2	96x96	1	2CSG163030R4022	Upon request

DMTME-72 panel multimeters

Auxiliary supply 230 V a.c. and 400 V a.c.

Product description	RS485	Program	Dimension	Pack	Ordering code	Unit LP (₹)
DMTME-72	-	-	72x72	1	2CSG132030R4022	Upon request
DMTME-I-485-72	✓	2	96x96	1	2CSG162030R4022	Upon request

M2M - network analyser

The measure of efficiency

The new M2M network analyser has advanced analysis functions which allow effective measurement of the main single-phase or three-phase electrical parameters: voltage, current, frequency, power factor, active and reactive power, active and reactive energy.

Fitted to low- and medium-voltage electrical panels, the new analyser allows the measurement and analysis in real time of electrical parameters, also verifying the quality of the energy thanks to THD measurement.

M2M also keeps the system's consumption under control, giving figures in CO2 kg and Euros to ensure more efficient and rational use of energy. Bidirectional metering of energy and power on the 4 quadrants allows both production and consumption of energy to be monitored with a single device. Aside from optimising the use of loads, real time measurement contributes to containing both environmental and budgetary impact.

All information gathered by the analyser can be transmitted quickly to remote locations through specific communication interfaces – RS485, RJ45 or RS232, with the support of numerous protocols including Modbus RTU, Modbus TCP/IP and Profibus DP.

Interaction with the control and supervision systems is possible via different inputs and outputs, all programmable.

Features

- The importance of control
Measurement and advanced analysis of electrical parameters
- The value of flexibility
Versatility in its different applications and completeness of functions
- The advantages of communication
Intuitive analyser with multiple integrated functions, which communicates also via digital and analogue I/O
- Easy to install
- Ease of use



M2M - Network analyser

The measure of efficiency

Type	Description	Protocol	Serial port	Ordering code	Unit L.P. (₹)
M2M	2 digital outputs programmable as threshold alarms or pulses	-	-	2CSG299883R4052	
M2M MODBUS	2 digital outputs programmable as threshold alarms or pulses	Modbus RTU	RS485	2CSG299893R4052	
M2M ETHERNET	2 digital outputs programmable as threshold alarms or pulses	Modbus TCP/IP	RJ45	2CSG299903R4052	
M2M PROFIBUS	2 digital outputs programmable as threshold alarms or pulses	Profibus	RS232	2CSG299913R4052	Upon request
M2M ALARM	2 digital outputs programmable as threshold alarms or pulses, 2 programmable relay outputs	Modbus RTU	RS485	2CSG299923R4052	
M2M I/O	2 digital outputs programmable as threshold alarms or pulses, 3 digital inputs and 2 analogue outputs	Modbus RTU	RS485	2CSG299933R4052	

A point of reference. For simplicity and effectiveness

NEW

A complete series, versatile and easy to install

Efficiency, safety, integration: the new System pro E comfort MISTRAL65 series rests on the strengths which have consolidated ABB's image over the years for its expertise and reliability in the area of products for protection, control, monitoring, measurement, safety and energy efficiency. These innovative IP65 rated consumer units complete

ABB's wide product range for the industrial sector. The result of constant research and constant attention paid to technological development, the System pro E comfort c consumer units are designed to satisfy all requirements electrical installers might have.



Enclosed Switches ONE20

Description	No. modules	No. of rows	Dimensions WxHxD	Order code	Unit LP (₹)
Mistral65 transparent door 4M	4	1	52x202x117	1SL1200A00	1,967
Mistral65 transparent door 8M	8	1	232x250x154	1SL1201A00	3,180
Mistral65 transparent door 12M	12	1	320x250x155	1SL1202A00	4,226
Mistral65 transparent door 18M	18	1	430x250x155	1SL1203A00	5,357
Mistral65 transparent door 24M	24	2	320x435x155	1SL1204A00	6,567
Mistral65 transparent door 36M 2F	36	2	430x435x155	1SL1205A00	10,454
Mistral65 transparent door 36M 3F	36	3	320x600x155	1SL1206A00	10,454
Mistral65 transparent door 54M	54	3	430x600x155	1SL1208A00	16,738

Performance redefined **NEW**

ABB ITUS

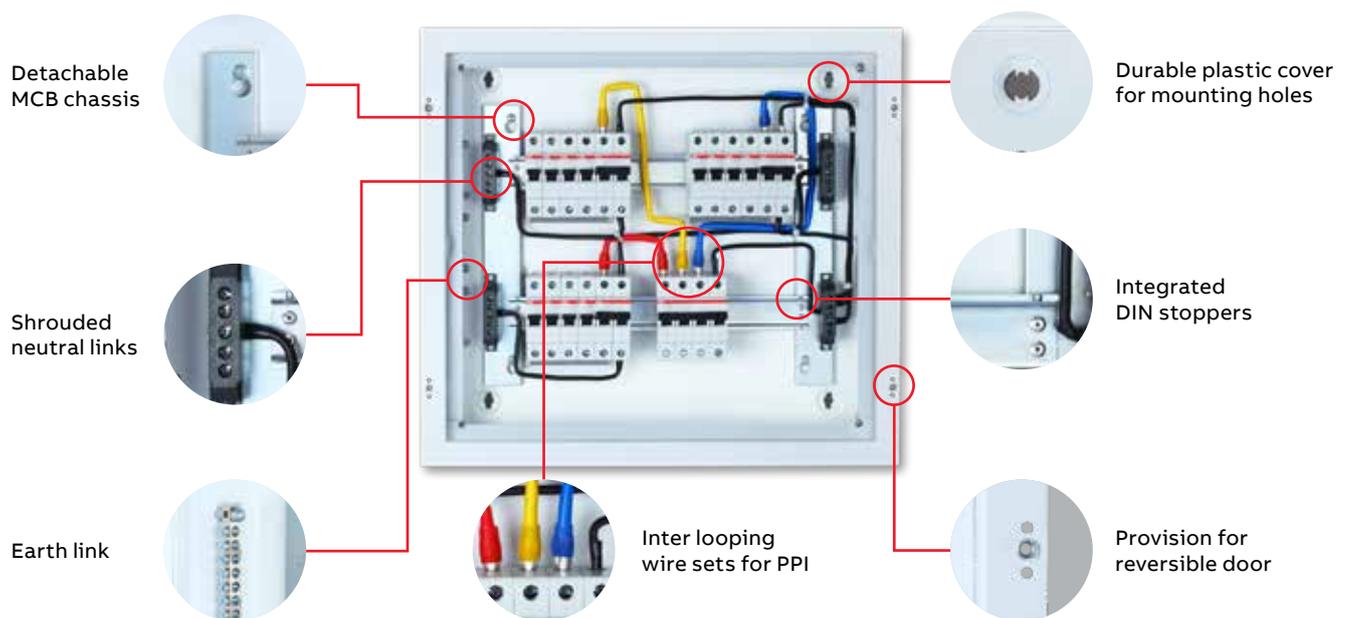
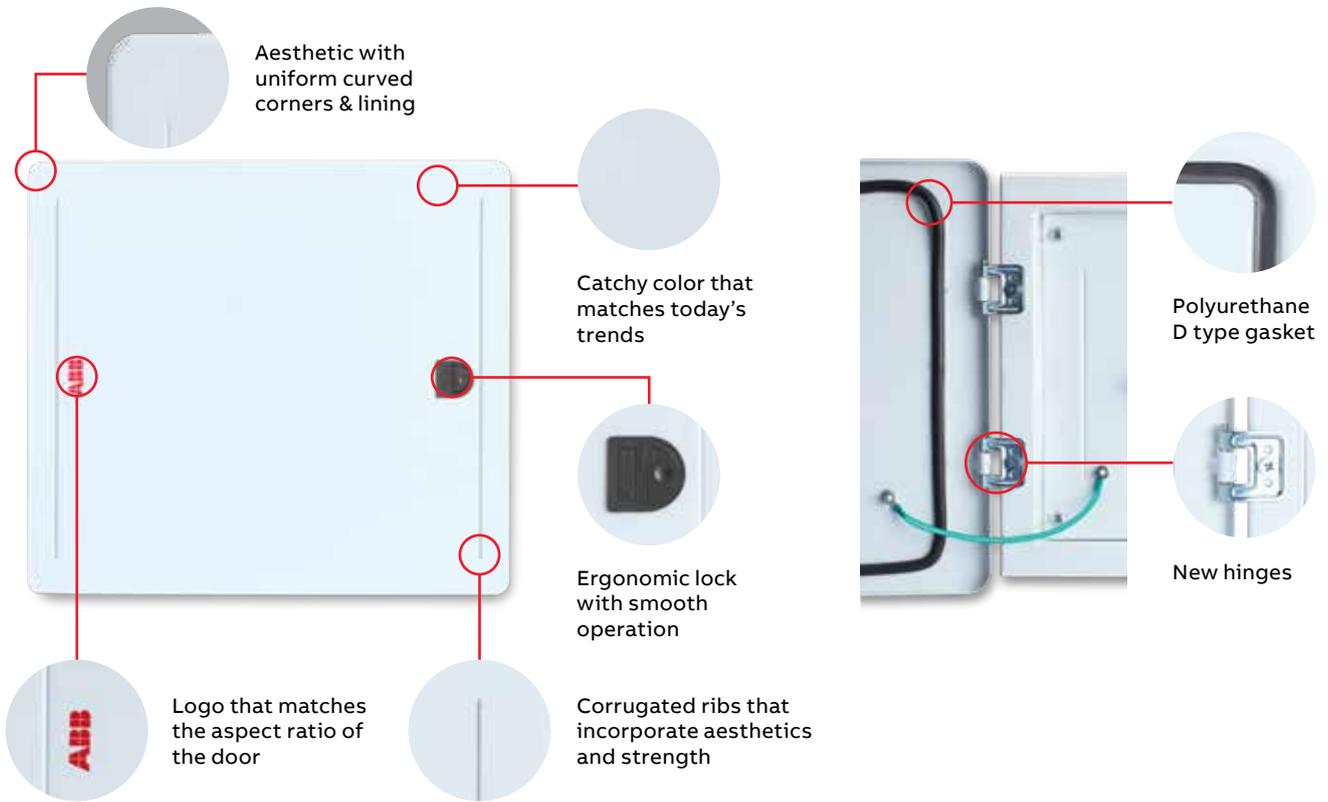
At ABB we look at global trends along with advances in innovation along the line of power enclosures. Keeping these factors in mind, using advanced techniques and vast domain expertise we come up with products that are future ready.

Keeping pace with new requirements coupled with dynamic changes in the business space, our products are designed so that they meet multiple objectives and desires of our customers.

Our products are designed to give maximum convenience and customization options, providing a true sense of freedom and choice for all your wiring needs.

Features and benefits

ABB ITUS Distribution Enclosures with its innovative design and technical features ensures complete fulfillment of all customer needs.



Features and benefits

Flexibility

ABB ITUS has undergone several improvements over its predecessors in order to address the continuous changes in customer dynamics.

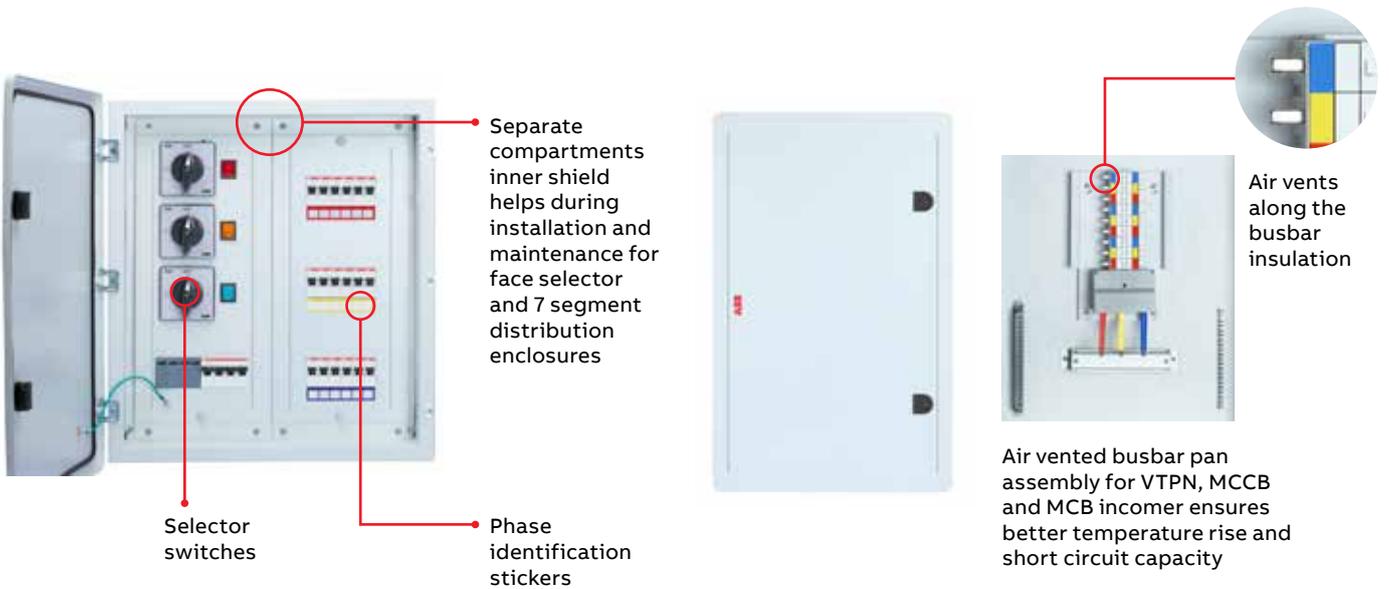
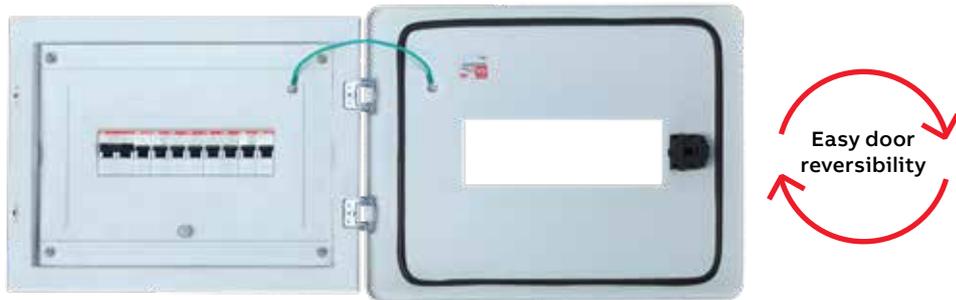
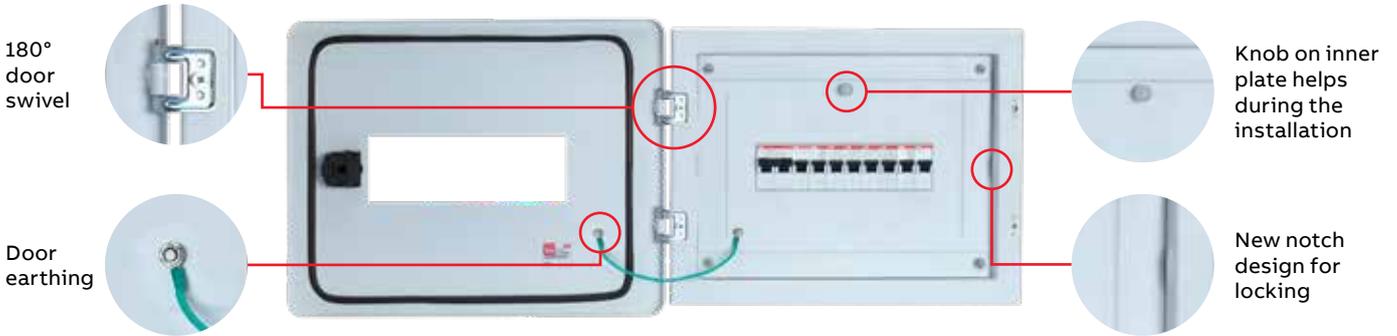


ABB ITUS Distribution Enclosures

SPN-SHC

Horizontal single phase consumer unit with provision for 2 pole (MCB/Isolator/RCD) incoming and single phase outgoing. These distribution boards come with earth link, shrouded neutral link and tinned electrolytic copper insulated busbar. Top and bottom, removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 30, IK 08 Without door

Product description	Product code	No. of ways	No of modules	Unit M.R.P.(₹)
I-SPN06 WAY WD DB	1SYI011506C0001	6 way	6	1,230
I-SPN08 WAY WD DB	1SYI011508C0001	8 way	8	1,560
I-SPN10 WAY WD DB	1SYI011510C0001	10 way	10	1,700
I-SPN12 WAY WD DB	1SYI011512C0001	12 way	12	1,840
I-SPN14 WAY WD DB	1SYI011514C0001	14 way	14	2,005
I-SPN16 WAY WD DB	1SYI011516C0001	16 way	16	2,270
I-SPN18 WAY WD DB	1SYI011518C0001	18 way	18	2,645
I-SPN22 WAY WD DB	1SYI011522C0001	22 way	22	2,730



IP 43, IK 09 With metal door

Product description	Product code	No. of ways	No of modules	Unit M.R.P.(₹)
I-SPN06 WAY MD DB	1SYI011606C0001	6 way	6	2,010
I-SPN08 WAY MD DB	1SYI011608C0001	8 way	8	2,250
I-SPN10 WAY MD DB	1SYI011610C0001	10 way	10	2,440
I-SPN12 WAY MD DB	1SYI011612C0001	12 way	12	2,650
I-SPN14 WAY MD DB	1SYI011614C0001	14 way	14	2,980
I-SPN16 WAY MD DB	1SYI011616C0001	16 way	16	3,150
I-SPN18 WAY MD DB	1SYI011618C0001	18 way	18	3,400
I-SPN22 WAY MD DB	1SYI011622C0001	22 way	22	3,960



IP 43, IK 09 Metal door with acrylic

Product description	Product code	No. of ways	No of modules	Unit M.R.P.(₹)
I-SPN06 WAY AD DB	1SYI011706C0001	6 way	6	2,095
I-SPN08 WAY AD DB	1SYI011708C0001	8 way	8	2,460
I-SPN10 WAY AD DB	1SYI011710C0001	10 way	10	2,730
I-SPN12 WAY AD DB	1SYI011712C0001	12 way	12	2,995
I-SPN14 WAY AD DB	1SYI011714C0001	14 way	14	3,265
I-SPN16 WAY AD DB	1SYI011716C0001	16 way	16	3,720
I-SPN18 WAY AD DB	1SYI011718C0001	18 way	18	4,085
I-SPN22 WAY AD DB	1SYI011722C0001	22 way	22	4,575



IP 54, IK 09 Metal door

Product description	Product code	No. of ways	No of modules	Unit M.R.P.(₹)
I-SPN06 WAY WP DB	1SYI011806C0001	6 way	6	4,965
I-SPN08 WAY WP DB	1SYI011808C0001	8 way	8	6,570
I-SPN10 WAY WP DB	1SYI011810C0001	10 way	10	6,610
I-SPN12 WAY WP DB	1SYI011812C0001	12 way	12	7,545
I-SPN14 WAY WP DB	1SYI011814C0001	14 way	14	7,865
I-SPN16 WAY WP DB	1SYI011816C0001	16 way	16	8,395
I-SPN18 WAY WP DB	1SYI011818C0001	18 way	18	8,825
I-SPN22 WAY WP DB	1SYI011822C0001	22 way	22	9,425

ABB ITUS Distribution Enclosures

TPN-SHDB

Horizontal three phase distribution board with provision for incomer 8 pole (MCB/Isolator/RCD) and single phase outgoing. These distribution boards come with earth link, shrouded neutral link, tinned electrolytic copper insulated busbar and wire sets for cable management. Top and bottom, removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 30, IK 08 Without door

Product description	Product code	No. of ways	No. of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-TPN04 WAY WD DB	1SYI021504C0001	4 way	8	12	3,430
I-TPN06 WAY WD DB	1SYI021506C0001	6 way	8	18	4,230
I-TPN08 WAY WD DB	1SYI021508C0001	8 way	8	24	4,975
I-TPN12 WAY WD DB	1SYI021512C0001	12 way	8	36	7,375



IP 43, IK 09 With metal door

Product description	Product code	No. of ways	No. of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-TPN04 WAY MD DB	1SYI021604C0001	4 way	8	12	4,450
I-TPN06 WAY MD DB	1SYI021606C0001	6 way	8	18	5,030
I-TPN08 WAY MD DB	1SYI021608C0001	8 way	8	24	6,030
I-TPN12 WAY MD DB	1SYI021612C0001	12 way	8	36	9,030

IP 43, IK 09 Metal door with acrylic

Product description	Product code	No. of ways	No. of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-TPN04 WAY AD DB	1SYI021704C0001	4 way	8	12	5,300
I-TPN06 WAY AD DB	1SYI021706C0001	6 way	8	18	6,545
I-TPN08 WAY AD DB	1SYI021708C0001	8 way	8	24	7,850
I-TPN12 WAY AD DB	1SYI021712C0001	12 way	8	36	12,040

IP 54, IK 09 Metal door

Product description	Product code	No. of ways	No. of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-TPN04 WAY WP DB	1SYI021804C0001	4 way	8	12	13,320
I-TPN06 WAY WP DB	1SYI021806C0001	6 way	8	18	16,025
I-TPN08 WAY WP DB	1SYI021808C0001	8 way	8	24	17,530
I-TPN12 WAY WP DB	1SYI021812C0001	12 way	8	36	24,695

ABB ITUS Distribution Enclosures

TPN-SHPPI per phase isolation

Horizontal per-phase isolation distribution board with provision for 8 pole (MCB/Isolator/RCD) as incomer, 3 DP MCB/Isolator/RCD as sub-incoming and SP MCBs as outgoing. These distribution boards come with separate shrouded neutral link for each phase, earthing link, tinned electrolytic copper insulated busbar and wire sets for cable management Top and bottom removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 43, IK 09 With metal door

Product description	Product code	No. of ways	No. of modules			Unit M.R.P.(₹)
			I/C	Sub I/C	O/G	
I-HPPI06 WAY MD DB	1SYI031606C0001	6 way	8	6	18	7,675
I-HPPI08 WAY MD DB	1SYI031608C0001	8 way	8	6	24	9,090
I-HPPI12 WAY MD DB	1SYI031612C0001	12 way	8	6	36	12,445

ABB ITUS Distribution Enclosures

TPN-SVDB per phase isolation

Vertical per-phase Isolation Distribution Board in 4-tier structure with provision for 8 pole (MCB/isolator/ RCD) incomer and 2 pole (MCB/isolator/RCD) as sub-incomer with single phase outgoing. These distribution boards come with separate shrouded neutral link for each phase, earthing link, tinned electrolytic copper insulated busbar and wire sets for cable management. Top and bottom removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 43, IK 09 With metal door

Product description	Product code	No. of ways	No. of modules			Unit M.R.P.(₹)
			I/C	Sub I/C	O/G	
I-VPPI06 WAY MD DB	1SYI041606C0001	6 way	8	6	18	9,150
I-VPPI08 WAY MD DB	1SYI041608C0001	8 way	8	6	24	10,100
I-VPPI12 WAY MD DB	1SYI041612C0001	12 way	8	6	36	11,650

ABB ITUS Distribution Enclosures

TPN-8 segment

Eight segment distribution board with phase segregation and separation between incoming and outgoing with provision for 4P+8P incomer (MCB/Isolator/RCD) and 4 pole sub-incomer (MCB/Isolator/RCD) with single phase outgoing. These distribution boards come with shrouded neutral bar, earthing link and wire sets for cable management for each compartment. Top and bottom, removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 43, IK 09 With metal door

Product description	Product code	No. of ways	No. of modules			Unit M.R.P.(₹)
			I/C	Sub I/C	O/G	
I-8SEG04 WAY MD DB	1SYI051604C0001	4 way	4+8	12	12	12,075
I-8SEG06 WAY MD DB	1SYI051606C0001	6 way	4+8	12	18	13,610
I-8SEG08 WAY MD DB	1SYI051608C0001	8 way	4+8	12	24	15,170
I-8SEG12 WAY MD DB	1SYI051612C0001	12 way	4+8	12	36	18,880

ABB ITUS Distribution Enclosures

TPN-SVTDB MCB

Vertical three phase distribution board with provision for 8 pole (MCB/Isolator/RCD) incoming with three phase and single phase (TP/SP) outgoing These distribution boards come with complete insulated busbar (tinned electrolytic copper) arrangement, shrouded neutral bar and earth bars. Top and bottom removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 43, IK 09 Metal door

Product description	Product code	No. of ways	No. of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-VTPN04 WAY MCB/IC MD DB	1SYI061604C0001	4 way	8	12	10,055
I-VTPN06 WAY MCB/IC MD DB	1SYI061606C0001	6 way	8	18	11,055
I-VTPN08 WAY MCB/IC MD DB	1SYI061608C0001	8 way	8	24	12,785
I-VTPN12 WAY MCB/IC MD DB	1SYI061612C0001	12 way	8	36	17,205

ABB ITUS Distribution Enclosures

TPN-SVTDB XT1

Vertical three phase distribution board with provision for 4 pole MCCB (XT1) up to 160A as incomer with three phase and single phase (TP/SP) MCB outgoing. These distribution boards come with complete insulated busbar (tinned electrolytic copper) arrangement, shrouded neutral bar and earth bars. Top and bottom removable gland plates with knockouts. Mounting of these boards can be flush or surface.

IP 43, IK 09 Metal door

Product description	Product code	No of ways	No of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-VTPN04 WAY XT1/IC MD DB	1SYI071604C0001	4 way	XT1 160	12	12,115
I-VTPN06 WAY XT1/IC MD DB	1SYI071606C0001	6 way	XT1 160	18	13,765
I-VTPN08 WAY XT1/IC MD DB	1SYI071608C0001	8 way	XT1 160	24	15,150
I-VTPN12 WAY XT1/IC MD DB	1SYI071612C0001	12 way	XT1 160	36	20,255

ABB ITUS Distribution Enclosures

TPN-SVTDB XT3

Vertical three phase distribution board with provision for 4 pole MCCB (XT3) up to 250A as incomer with three phase and single phase (TP/SP) MCB outgoing. These distribution boards come with complete insulated busbar (tinned electrolytic copper) arrangement, shrouded neutral bar and earth bars. Top and bottom removable gland plates with knockouts. Mounting of these boards can be flush or surface.

IP 43, IK 09 Metal door

Product description	Product code	No. of ways	No. of modules		Unit M.R.P.(₹)
			I/C	O/G	
I-VTPN04 WAY XT3/IC MD DB	1SYI081604C0001	4 way	XT3 250	12	22,425
I-VTPN06 WAY XT3/IC MD DB	1SYI081606C0001	6 way	XT3 250	18	23,645
I-VTPN08 WAY XT3/IC MD DB	1SYI081608C0001	8 way	XT3 250	24	26,185
I-VTPN12 WAY XT3/IC MD DB	1SYI081612C0001	12 way	XT3 250	36	27,595

ABB ITUS Distribution Enclosures

SVFLM flexi tier

Total flexibility as per site needs - configuration as per your choice of incomer and outgoing. Supply busbars need to be selected. These distribution boards come with shrouded neutral link, earthing link. Top and bottom, removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 43, IK 09 Metal door

Product description	Product code	No. of ways	No. of rows	No. of modules	Unit M.R.P.(₹)
I-2 ROW 13 MOD MD DB	1SYI101632C0001	2 row of 13mod	2	26	4,850
I-2 ROW 14 MOD MD DB	1SYI101642C0001	2 row of 14mod	2	28	5,120
I-3 ROW 13 MOD MD DB	1SYI101633C0001	3 row of 13mod	3	39	5,760
I-3 ROW 14 MOD MD DB	1SYI101643C0001	3 row of 14mod	3	42	6,450
I-4 ROW 13 MOD MD DB	1SYI101634C0001	4 row of 13mod	4	52	6,650
I-4 ROW 14 MOD MD DB	1SYI101644C0001	4 row of 14mod	4	56	8,100

ABB ITUS Distribution Enclosures

SPVS phase selector

Phase selector distribution boards with inbuilt 3 numbers of selector switches and 3 numbers of piano switches as well as provision for 8 pole MCB/Isolator/RCD as incoming and SP MCBs as outgoing. These distribution boards come with earth link, shrouded neutral link, tinned electrolytic insulated copper busbar and wire sets for cable management. Top and bottom, removable gland plates with knockouts. Mounting of these boards can be flush or surface.



IP 43, IK 09 Metal door

Product description	Product code	No. of ways	No. of modules I/C	No. of modules O/G	Unit M.R.P.(₹)
I-PS 63A04 WAY MD DB	1SYI091604C0001	4 way	8	12	14,440
I-PS 63A06 WAY MD DB	1SYI091606C0001	6 way	8	18	14,670
I-PS 63A08 WAY MD DB	1SYI091608C0001	8 way	8	24	15,715
I-PS 63A12 WAY MD DB	1SYI091612C0001	12 way	8	36	17,690

ABB ITUS Distribution Enclosures SEN enclosures

Metal enclosures, universal mounting suitable for DP, FP, 6P and 8 pole arrangements



IP 20, IK 08

Product description	Product code	No. of ways	No. of modules	Unit M.R.P.(₹)
I-2MOD Metal enclosure	1SYI121502C0001	2P Enclosure	2	645
I-4MOD Metal enclosure	1SYI121504C0001	4P Enclosure	4	645
I-6MOD Metal enclosure	1SYI121506C0001	6P Enclosure	6	840
I-8MOD Metal enclosure	1SYI121508C0001	8P Enclosure	8	1,090

ABB ITUS Distribution Enclosures P&S boards

This range offers a wide variety of plug & sockets boards. These plug & sockets can be used for single phase or three phase application up to 30A along with MCB or RCBO with provision for universal mounting.



IP 20, IK 08

Product description	Product code	No. of ways	No. of modules	Unit M.R.P.(₹)
I-20A SP 2Pin P&S Enclosure	1SYI111520C0001	1	2	1,775
I-30A TP 3Pin P&S Enclosure	1SYI111530C0001	1	4	3,885

ABB ITUS Distribution Enclosures

Cable end boxes

SPN-SHC

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-SPN06 WAY MD CEB	1SYI140106C0001	6 way	530
I-SPN08 WAY MD CEB	1SYI140108C0001	8 way	845
I-SPN10 WAY MD CEB	1SYI140110C0001	10 way	810
I-SPN12 WAY MD CEB	1SYI140112C0001	12 way	940
I-SPN14 WAY MD CEB	1SYI140114C0001	14 way	890
I-SPN16 WAY MD CEB	1SYI140116C0001	16 way	1,335
I-SPN18 WAY MD CEB	1SYI140118C0001	18 way	1,365
I-SPN22 WAY MD CEB	1SYI140122C0001	22 way	1,340

TPN-SHDB

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-TPN04 WAY MD CEB	1SYI140204C0001	4 way	1,220
I-TPN06 WAY MD CEB	1SYI140206C0001	6 way	1,335
I-TPN08 WAY MD CEB	1SYI140208C0001	8 way	2,340
I-TPN12 WAY MD CEB	1SYI140212C0001	12 way	3,120

TPN-SHPPI

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-HPPI06 WAY MD CEB	1SYI140306C0001	6 way	1,335
I-HPPI08 WAY MD CEB	1SYI140308C0001	8 way	2,340
I-HPPI12 WAY MD CEB	1SYI140312C0001	12 way	3,120

TPN-SVDB

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-VPPI06 WAY MD CEB	1SYI140406C0001	6 way	945
I-VPPI08 WAY MD CEB	1SYI140408C0001	8 way	1,115
I-VPPI12 WAY MD CEB	1SYI140412C0001	12 way	1,285

8 Segment

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-8SEG04 WAY MD CEB	1SYI140504C0001	4 way	1,675
I-8SEG06 WAY MD CEB	1SYI140506C0001	6 way	2,620
I-8SEG08 WAY MD CEB	1SYI140508C0001	8 way	3,845
I-8SEG12 WAY MD CEB	1SYI140512C0001	12 way	5,190

SVTDB, XT1 & XT3

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-VTPN MCB/IC MD CEB	1SYI140600C0001	For all SVTDB MCB I/C	2,145
I-VTPN XT1/IC MD CEB	1SYI140700C0001	For all SVTDB MCCB XT1 I/C	3,380
I-VTPN XT3/IC MD CEB	1SYI140800C0001	For all SVTDB MCCB XT3 I/C	3,380

SVFLM

Product description	Product code	No. of ways	Unit M.R.P.(₹)
I-13 MOD CEB	1SYI141013C0001	13 module	1,170
I-14 MOD CEB	1SYI141014C0001	14 module	1,420

Busbars and blanking plate

Product description	Product code	No. of ways	No of modules	Unit M.R.P.(₹)
I-13 MOD Insulated busbar	1SYI131513C0001	13		335
I-14 MOD Insulated busbar	1SYI131514C0001	14		390
I-Blank plate	1SYI131500C0001	1		15

ABB ITUS Distribution Enclosures

Complete range

Customization in ABB ITUS Distribution Enclosures available on request*

- i) Enclosures-TV/TEL/IOT related backend devices
- ii) Enclosures-SPD provision
- iii) Pre-wired distribution boards
- iv) Indication lamps provision
- v) MCCB enclosures



Distribution boards

Elegance series

Elegance series (E-series) distribution boards are available in texture grey (color code - RAL7035)

Construction

Blending aesthetics, functionality and safety, the E-series of ABB distribution boards are manufactured with high precision, and high quality CRCA steel sheets. These distribution boards undergo a seven-tank phosphating process to ensure anti-rust conditioning, superior finish and lasting strength. Premier quality powder coating is applied using the latest techniques

Colour

ABB's E-series of distribution boards is available in texture grey (RAL 7035)

Installation

The E-series of ABB distribution boards are universal mounting type, hence can be flush or wall mounted. These distribution boards are provided with top and bottom removable gland plates with adequate no of knock outs, which enable easy installation and connection of conduits of sizes up to 32 mm dia knock out.

Protection

E-series distribution boards offer three types of protection- IP43 & IP54 degree with a metal door and IP30 degree without a door. The highest degree of attention has been paid to the safety aspect of the distribution boards, considering that they are installed in close proximity to people. An intermediate plate ensures total safety, as no live parts are exposed when the door is opened.



Distribution boards

Elegance series

SPN DB -E-SHC

Horizontal single phase consumer unit with provision for incoming 2 pole (MCB / Isolator / RCD) and single phase outgoing. Suitable for surface and flush mounting.

IP 30



Product description	No. of ways	No of modules	Ordering code	Unit M.R.P. (₹)
E-SHC WD 4	4 way	4+2	NSYN8690SPNWD04 ■	1,115
E-SHC WD 6	6 way	6+2	NSYN8690SPNWD06	1,200
E-SHC WD 8	8 way	8+2	NSYN8690SPNWD08 ■	1,360
E-SHC WD 10	10 way	10+2	NSYN8690SPNWD10	1,510
E-SHC WD 12	12 way	12+2	NSYN8690SPNWD12 ■	1,735
E-SHC WD 14	14 way	14+2	NSYN8690SPNWD14	1,770
E-SHC WD 16	16 way	16+2	NSYN8690SPNWD16 ■	2,240
E-SHC WD 20	20 way	20+2	NSYN8690SPNWD20	2,520

IP 43 with metal door



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHC M 4	4 way	4+2	NSYN8690SPN0M04 ■	1,680
E-SHC M 6	6 way	6+2	NSYN8690SPN0M06	1,855
E-SHC M 8	8 way	8+2	NSYN8690SPN0M08 ■	2,060
E-SHC M 10	10 way	10+2	NSYN8690SPN0M10	2,220
E-SHC M 12	12 way	12+2	NSYN8690SPN0M12 ■	2,450
E-SHC M 14	14 way	14+2	NSYN8690SPN0M14	2,530
E-SHC M 16	16 way	16+2	NSYN8690SPN0M16 ■	3,095
E-SHC M 20	20 way	20+2	NSYN8690SPN0M20	3,455

IP 43 Metal door with acrylic



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHC P 4	4 way	4+2	NSYN8690SPN0P04	1,710
E-SHC P 6	6 way	6+2	NSYN8690SPN0P06	2,095
E-SHC P 8	8 way	8+2	NSYN8690SPN0P08	2,125
E-SHC P 10	10 way	10+2	NSYN8690SPN0P10	2,635
E-SHC P 12	12 way	12+2	NSYN8690SPN0P12	2,660
E-SHC P 14	14 way	14+2	NSYN8690SPN0P14	2,925
E-SHC P 16	16 way	16+2	NSYN8690SPN0P16	3,435
E-SHC P 20	20 way	20+2	NSYN8690SPN0P20	4,380

IP 54

Product Description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHC M WP 4	4 way	4+2	NSYN8690SPNWP04	4,735
E-SHC M WP 6	6 way	6+2	NSYN8690SPNWP06	5,135
E-SHC M WP 8	8 way	8+2	NSYN8690SPNWP08	5,600
E-SHC M WP 10	10 way	10+2	NSYN8690SPNWP10	5,900
E-SHC M WP 12	12 way	12+2	NSYN8690SPNWP12	6,445
E-SHC M WP 14	14 way	14+2	NSYN8690SPNWP14	6,565
E-SHC M WP 16	16 way	16+2	NSYN8690SPNWP16	7,140
E-SHC M WP 20	20 way	20+2	NSYN8690SPNWP20	7,640

■ Stock items

Distribution boards

Elegance series

TPN DB - E-SHDB

Horizontal three phase distribution board provision for incomer 8 pole (MCB / Isolator / RCD) and single phase outgoings suitable for both surface & flush mounting.

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHDB WD 4	4 way	8+12	NSYN8690TPNWD04 ■	2,655
E-SHDB WD 6	6 way	8+18	NSYN8690TPNWD06	3,275
E-SHDB WD 8	8 way	8+24	NSYN8690TPNWD08 ■	3,855
E-SHDB WD 12	12 way	8+36	NSYN8690TPNWD12 ■	5,655
E-SHDB WD 16	16 way	8+48	NSYN8690TPNWD16	6,970

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHDB M 4	4 way	8+12	NSYN8690TPN0M04 ■	3,800
E-SHDB M 6	6 way	8+18	NSYN8690TPN0M06	4,325
E-SHDB M 8	8 way	8+24	NSYN8690TPN0M08 ■	5,185
E-SHDB M 12	12 way	8+36	NSYN8690TPN0M12 ■	7,340
E-SHDB M 16	16 way	8+48	NSYN8690TPN0M16	8,970

IP 43 with metal door with acrylic

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHDB P 4	4 way	8+12	NSYN8690TPN0P04	4,185
E-SHDB P 6	6 way	8+18	NSYN8690TPN0P06	5,170
E-SHDB P 8	8 way	8+24	NSYN8690TPN0P08	6,140
E-SHDB P 12	12 way	8+36	NSYN8690TPN0P12	9,415
E-SHDB P 16	16 way	8+48	NSYN8690TPN0P16	11,300

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHDB M WP 4	4 way	8+12	NSYN8690TPNWP04	10,415
E-SHDB M WP 6	6 way	8+18	NSYN8690TPNWP06	12,535
E-SHDB M WP 8	8 way	8+24	NSYN8690TPNWP08	13,705
E-SHDB M WP 12	12 way	8+36	NSYN8690TPNWP12	19,315
E-SHDB M WP 16	16 way	8+48	NSYN8690TPNWP16	23,185



Distribution boards

Elegance series



Per Phase Isolation DB -E-SHPPI

Horizontal per-phase Isolation distribution board with provision for 8 pole (MCB / Isolator / RCD) as incomer and single phase as outgoings with separate neutral and earth bars for per phase isolation.

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SHPPI M 6	6 way	8+18	NSYN8690PPIOM06 ■	6,590
E-SHPPI M 8	8 way	8+24	NSYN8690PPIOM08 ■	7,830
E-SHPPI M 12	12 way	8+36	NSYN8690PPIOM12 ■	10,605
E-SHPPI M 16	16 way	8+48	NSYN8690PPIOM16 ■	12,540



Per Phase Isolation DB -E-SVDB

Tier type per-phase isolation distribution board with provision for 8 pole (MCB / Isolator / RCD) incomer and provision for 2 pole (MCB / Isolator / RCD) as sub-incomers with single phase outgoings with separate neutral and earth bars for per phase Isolation.

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVDB M 6	6 way	8+6+18	NSYN8690SVD0M06 ■	7,305
E-SVDB M 8	8 way	8+6+24	NSYN8690SVD0M08 ■	9,310
E-SVDB M 12	12 way	8+6+36	NSYN8690SVD0M12 ■	10,895

Distribution boards

Elegance series

Vertical DB 8P I/C & SP/TP O/G -E-SVTDB

Vertical three phase distribution board with provision for 8 pole (MCB / Isolator / RCD) incoming with three phase and single phase (TP/SP) outgoing, complete with insulated busbar arrangement.

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB WD 4	4 way	8+12	NSYN8690VTPWD04	7,480
E-SVTDB WD 6	6 way	8+18	NSYN8690VTPWD06	8,350
E-SVTDB WD 8	8 way	8+24	NSYN8690VTPWD08	9,220
E-SVTDB WD 12	12 way	8+36	NSYN8690VTPWD12	13,185

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB M 4	4 way	8+12	NSYN8690VTPOM04	8,705
E-SVTDB M 6	6 way	8+18	NSYN8690VTPOM06	9,860
E-SVTDB M 8	8 way	8+24	NSYN8690VTPOM08	10,925
E-SVTDB M 12	12 way	8+36	NSYN8690VTPOM12	13,780

IP 54

Product description	No. of Ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB M WP 4	4 way	8+12	NSYN8690VTPWP04	16,705
E-SVTDB M WP 6	6 way	8+18	NSYN8690VTPWP06	18,400
E-SVTDB M WP 8	8 way	8+24	NSYN8690VTPWP08	20,095
E-SVTDB M WP 12	12 way	8+36	NSYN8690VTPWP12	26,775

Vertical DB 160 A MCCB I/C & SP/TP MCB O/G - E - SVTDB-XT1

Vertical three phase distribution board with provision for 4 pole MCCB (Tmax - XT1) upto 160A as in-comer with three phase and single.

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB WD 4XT1	4 way	Tmax XT1+12	NSYN8690VWXT104	8,390
E-SVTDB WD 6XT1	6 way	Tmax XT1+18	NSYN8690VWXT106	9,770
E-SVTDB WD 8XT1	8 way	Tmax XT1+24	NSYN8690VWXT108	10,620
E-SVTDB WD 12XT1	12 way	Tmax XT1+36	NSYN8690VWXT112	15,020

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB M 4XT1	4 way	Tmax XT1+12	NSYN8690VMXT104	9,700
E-SVTDB M 6XT1	6 way	Tmax XT1+18	NSYN8690VMXT106	11,475
E-SVTDB M 8XT1	8 way	Tmax XT1+24	NSYN8690VMXT108	12,825
E-SVTDB M 12XT1	12 way	Tmax XT1+36	NSYN8690VMXT112	17,060

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB M WP 4XT1	4 way	Tmax XT1+12	NSYN8690VPXT104	19,225
E-SVTDB M WP 6XT1	6 way	Tmax XT1+18	NSYN8690VPXT106	21,165
E-SVTDB M WP 8XT1	8 way	Tmax XT1+24	NSYN8690VPXT108	23,110
E-SVTDB M WP 12XT1	12 way	Tmax XT1+36	NSYN8690VPXT112	31,035

■ Stock items

Distribution boards

Elegance series

Vertical DB 250 A MCCB I/C & SP/TP MCB O/G - E - SVTDB-XT3

Vertical three phase distribution board with provision for 4 pole MCCB (Tmax - XT3) upto 250A as incomer with three phase and single phase (TP/SP) outgoing, complete with insulated busbar arrangement.

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB WD 4XT3	4 way	250A Tmax XT3+12	NSYN8690VWXT304	15,510
E-SVTDB WD 6XT3	6 way	250A Tmax XT3+18	NSYN8690VWXT306	17,025
E-SVTDB WD 8XT3	8 way	250A Tmax XT3+24	NSYN8690VWXT308	17,255
E-SVTDB WD 12XT3	12 way	250A Tmax XT3+36	NSYN8690VWXT312	19,065

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB M 4XT3	4 way	250A Tmax XT3+12	NSYN8690VMXT304	18,645
E-SVTDB M 6XT3	6 way	250A Tmax XT3+18	NSYN8690VMXT306	20,075
E-SVTDB M 8XT3	8 way	250A Tmax XT3+24	NSYN8690VMXT308	21,185
E-SVTDB M 12XT3	12 way	250A Tmax XT3+36	NSYN8690VMXT312	22,430

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVTDB M WP 4XT3	4 way	250A TMAX XT3+12	NSYN8690VPXT304	27,370
E-SVTDB M WP 6XT3	6 way	250A TMAX XT3+18	NSYN8690VPXT306	29,135
E-SVTDB M WP 8XT3	8 way	250A TMAX XT3+24	NSYN8690VPXT308	30,905
E-SVTDB M WP 12XT3	12 way	250A TMAX XT3+36	NSYN8690VPXT312	36,900

8 Segment DB - E-S8SEG - MCB I/C

Eight segment distribution board with phase segregation and separation between incoming and outgoing with provision for 8P (MCB / Isolator / RCD) + 4P (ACCL provision) as incomer with single phase outgoing with complete wire sets.

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-S8SEG M 4	4 way	8+12+12	NSYN8690S7S0M04	8,365
E-S8SEG M 6	6 way	8+12+18	NSYN8690S7S0M06	9,430
E-S8SEG M 8	8 way	8+12+24	NSYN8690S7S0M08	10,525
E-S8SEG M 12	12 way	8+12+36	NSYN8690S7S0M12	13,435

7 SEGMENT DB - E-S7SEG XT1 160A -MCCB I/C

Seven segment Distribution Board with phase segregation and separation between incoming and outgoing with provision for 4P MCCB up to 160A incomer and 4P as sub-incomers (MCB / Isolator / RCD) with single phase outgoing with complete wire sets & bus bars.

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-S7SEG M 4 XT1	6 way	T-max XT1 160+12+12	NSYN86908ST1M04	11,983
E-S7SEG M 6 XT1	8 way	T-max XT1 160+12+18	NSYN86908ST1M06	13,723
E-S7SEG M 8 XT1	12 way	T-max XT1 160+12+24	NSYN86908ST1M08	15,689
E-S7SEG M 12 XT1	16 way	T-max XT1 160+12+36	NSYN86908ST1M12	18,055

Distribution boards

Elegance series

Phase Selector DB -E- SPVS

Phase selector DBs-SPVS with inbuilt 3 nos. piano switches and 3 nos. phase selector switch of 63A.



IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SPVS M 4(63A)	4 way	8+12	NSYN8690SPV4M63	11,735
E-SPVS M 6(63A)	6 way	8+18	NSYN8690SPV6M63	13,180
E-SPVS M 8(63A)	8 way	8+24	NSYN8690SPV8M63	14,195
E-SPVS M 12(63A)	12 way	8+36	NSYN8690SPV12M63	14,315
E-SPVS M 4(40A)	4 way	8+12	NSYN8690SPV4M40	11,985
E-SPVS M 6(40A)	6 way	8+18	NSYN8690SPV6M40	10,700
E-SPVS M 8(40A)	8 way	8+24	NSYN8690SPV8M40	11,680
E-SPVS M 12(40A)	12 way	8+36	NSYN8690SPV12M40	13,085

Flexy tier DB - E-SVFL

Total flexibility as per site needs - configuration as per your choice of incomer & outgoings. Supply bus bars needs to be selected.



IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVFL M 132	2 row of 13mod	26	NSYN8690SVFM213	4,185
E-SVFL M 133	3 row of 13mod	39	NSYN8690SVFM313	4,920
E-SVFL M 134	4 row of 13mod	52	NSYN8690SVFM413	5,600
E-SVFL M 142	2 row of 14mod	28	NSYN8690SVFM214	5,685
E-SVFL M 143	3 row of 14mod	42	NSYN8690SVFM314	6,360
E-SVFL M 144	4 row of 14mod	56	NSYN8690SVFM414	6,930

IP 43 metal door with acrylic

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SVFL P 132	2 row of 13mod	26	NSYN8690SVFP213	4,255
E-SVFL P 133	3 row of 13mod	39	NSYN8690SVFP313	5,010
E-SVFL P 134	4 row of 13mod	52	NSYN8690SVFP413	5,645
E-SVFL P 142	2 row of 14mod	28	NSYN8690SVFP214	6,410
E-SVFL P 143	3 row of 14mod	42	NSYN8690SVFP314	7,125
E-SVFL P 144	4 row of 14mod	56	NSYN8690SVFP414	7,500

Distribution boards

Elegance series

Plug & Socket DB - E-SGK

Plug socket boards for single phase and three phase applications up to 63A (supplied completely with plug and socket).

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SGK 10 SP	10A SP	1	NSYN8690SGKSP10 ■	1,325
E-SGK 20 SP	20A SP	1	NSYN8690SGKSP20 ■	1,520
E-SGK 20 TP	20A TP	3	NSYN8690SGKTP20 ■	2,860
E-SGK 30 TP	30A TP	3	NSYN8690SGKTP30 ■	3,255
E-SGK 20 DPR	20A DP RCBO	4	NSYN8690SGKDP20 ■	1,505
E-SGK 25 FPR	25A FP RCBO	6	NSYN8690SGKFP25 ■	2,625
E-SGK 60 FP	60A FP	4	NSYN8690SGKFP60 ■	12,245

Enclosure-E-SEN

Metal enclosures, universal mounting suitable for SP, DP, FP, 6 pole & 8 pole arrangement.

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
E-SEN 1P	1P Enclosure	1	NSYN8690SENSPP1 ■	380
E-SEN 2P	2P Enclosure	2	NSYN8690SENSPP2 ■	590
E-SEN 4P	4P Enclosure	4	NSYN8690SENSPP4 ■	595
E-SEN 6P	6P Enclosure	6	NSYN8690SENSPP6 ■	815
E-SEN 8P	8P Enclosure	8	NSYN8690SENSPP8 ■	970

Busbar SP I/C & SP O/G



Product description	No. of ways	No of modules	Ordering code	Unit M.R.P. (₹)
13Mod Insulated Busbars	13	13	NSYN8690BUSSP13	335
14Mod Insulated Busbars	14	14	NSYN8690BUSSP14	395

Blanking plate

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
Blank PL		1	NSYN8690BLPLP00	15

Distribution boards

Elegance series

Cable end box

Product description	No. of ways	Ordering code	Unit M.R.P. (₹)
SPN IP30 SHC			
E-SHC WD 4/CEB	For 4 way SPN IP30 DB	NSYN8690SPNMCE4	490
E-SHC WD 6/CEB	For 6 way SPN IP30 DB	NSYN8690SPNMCE6	520
E-SHC WD 8/CEB	For 8 way SPN IP30 DB	NSYN8690SPNMCE8	575
E-SHC WD 10/CEB	For 10 way SPN IP30 DB	NSYN8690SPNMCE10	600
E-SHC WD 12/CEB	For 12 way SPN IP30 DB	NSYN8690SPNMCE12	700
E-SHC WD 14/CEB	For 14 way SPN IP30 DB	NSYN8690SPNMCE14	710
E-SHC WD 16/CEB	For 16 way SPN IP30 DB	NSYN8690SPNMCE16	800
E-SHC WD 20/CEB	For 20 way SPN IP30 DB	NSYN8690SPNMCE20	890
SPN IP43 SHC			
E-SHC M 4/CEB	For 4 way SPN IP43 DB	NSYN8690SPNWCE4	490
E-SHC M 6/CEB	For 6 way SPN IP43 DB	NSYN8690SPNWCE6	520
E-SHC M 8/CEB	For 8 way SPN IP43 DB	NSYN8690SPNWCE8	575
E-SHC M 10/CEB	For 10 way SPN IP43 DB	NSYN8690SPNWCE10	600
E-SHC M 12/CEB	For 12 way SPN IP43 DB	NSYN8690SPNWCE12	700
E-SHC M 14/CEB	For 14 way SPN IP43 DB	NSYN8690SPNWCE14	710
E-SHC M 16/CEB	For 16 way SPN IP43 DB	NSYN8690SPNWCE16	800
E-SHC M 20/CEB	For 20 way SPN IP43 DB	NSYN8690SPNWCE20	890
TPN IP30 SHDB			
E-SHDB WD 4/CEB	For 4 way TPN IP30 DB	NSYN8690TPNWCE4	770
E-SHDB WD 6/CEB	For 6 way TPN IP30 DB	NSYN8690TPNWCE6	800
E-SHDB WD 8/CEB	For 8 way TPN IP30 DB	NSYN8690TPNWCE8	985
E-SHDB WD 12/CEB	For 12 way TPN IP30 DB	NSYN8690TPNWCE12	1,475
E-SHDB WD 16/CEB	For 16 way TPN IP30 DB	NSYN8690TPNWCE16	1,920
TPN IP43 SHDB			
E-SHDB M 4/CEB	For 4 way TPN IP43 DB	NSYN8690TPNMCE4	890
E-SHDB M 6/CEB	For 6 way TPN IP43 DB	NSYN8690TPNMCE6	940
E-SHDB M 8/CEB	For 8 way TPN IP43 DB	NSYN8690TPNMCE8	1,175
E-SHDB M 12/CEB	For 12 way TPN IP43 DB	NSYN8690TPNMCE12	1,475
E-SHDB M 16/CEB	For 16 way TPN IP43 DB	NSYN8690TPNMCE16	1,955
TPN IP43 SHPPI			
E-SHPPI M 6/CEB	For 6way PPI IP43 DB	NSYN8690PPIMCE6	1,025
E-SHPPI M 8/CEB	For 8way PPI IP43 DB	NSYN8690PPIMCE8	1,415
E-SHPPI M 12/CEB	For 12way PPI IP43 DB	NSYN8690PPIMCE12	2,030
E-SHPPI M 16/CEB	For 16way PPI IP43 DB	NSYN8690PPIMCE16	2,200
TPN IP43 SVDB			
E-SVDB M 6/CEB	For 6way SVDB IP43 DB	NSYN8690SVDMCE6	935
E-SVDB M 8/CEB	For 8way SVDB IP43 DB	NSYN8690SVDMCE8	1,110
E-SVDB M 12/CEB	For 12way SVDB IP43 DB	NSYN8690SVDMCE12	1,280
Flexy DB IP43			
E-SVFL 13M/CEB	For all SVFL 13Mod DBs	NSYN8690SVFCE13	1,165
E-SVFL 14M/CEB	For all SVFL 14Mod DBs	NSYN8690SVFCE14	1,415
VTPN IP30 SVTDB			
E-SVTDB WD /CEB	For all SVTDBs(IP30DBs)	NSYN8690VTPWCE1	1,905
VTPN IP43 SVTDB			
E-SVTDB M/CEB	For all SVTDBs(IP43DBs)	NSYN8690VTPMCE1	2,150
VTPN IP30 XT1 160A			
E-SVTDB WD XT1/CEB	For all SVTDB XT1(IP30 DBs)	NSYN8690VTPWCEXT1	2,675
VTPN IP43 XT1 160A			
E-SVTDB M XT1/CEB	For all SVTDB XT1 DBs(IP43DBs)	NSYN8690VTPMCEXT1	2,790
VTPN IP30 XT3 250A			
E-SVTDB WD XT3/CEB	For all SVTDB XT3 DBs(IP30 DBs)	NSYN8690VTPWCEXT3	3,070
VTPN IP43 XT3 250A			
E-SVTDB M XT3/CEB	For all SVTDB XT3 DBs(IP43DBs)	NSYN8690VTPMCEXT3	3,300

Distribution boards

Classic series



SPN DB - SHC

IP 30



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHC WD 4	4 way	4+2	1SYN869006R0001 ■	1,015
SHC WD 6	6 way	6+2	1SYN869007R0001	1,045
SHC WD 8	8 way	8+2	1SYN869008R0001 ■	1,200
SHC WD 10	10 way	10+2	1SYN869006R0010	1,305
SHC WD 12	12 way	12+2	1SYN869009R0001 ■	1,555
SHC WD 14	14 way	14+2	1SYN869010R0001	1,590
SHC WD 16	16 way	16+2	1SYN869006R0016 ■	1,970
SHC WD 20	20 way	20+2	1SYN869006R0020	2,240

IP 43 with metal door



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHC M 4	4 way	4+2	1SYN869001R0001 ■	1,360
SHC M 6	6 way	6+2	1SYN869002R0001 ■	1,500
SHC M 8	8 way	8+2	1SYN869003R0001	1,770
SHC M 10	10 way	10+2	1SYN869004R0101	1,800
SHC M 12	12 way	12+2	1SYN869004R0001 ■	2,030
SHC M 14	14 way	14+2	1SYN869005R0001	2,125
SHC M 16	16 way	16+2	1SYN869001R0016	2,690
SHC M 20	20 way	20+2	1SYN869001R0020	3,055

Classic series distribution boards are available in ivory color (color code - RAL9010)

■ Stock items

Distribution boards

Classic series

SPN DB - SHC

IP 43 metal door with acrylic

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHC P 4	4 way	4+2	1SYN869011R0041	1,385
SHC P 6	6 way	6+2	1SYN869011R0042	1,730
SHC P 8	8 way	8+2	1SYN869013R0001	1,900
SHC P 10	10 way	10+2	1SYN869013R0002	1,930
SHC P 12	12 way	12+2	1SYN869015R0012	2,180
SHC P 14	14 way	14+2	1SYN869015R0001	2,595
SHC P 16	16 way	16+2	1SYN869011R0161	3,070
SHC P 20	20 way	20+2	1SYN869011R0201	3,490

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHC M WP 4	4 way	4+2	1SYN869002R0004	4,130
SHC M WP 6	6 way	6+2	1SYN869004R0020	4,455
SHC M WP 8	8 way	8+2	1SYN869002R0008	5,470
SHC M WP 10	10 way	10+2	1SYN869004R0021	6,020
SHC M WP 12	12 way	12+2	1SYN869002R0012	5,625
SHC M WP 14	14 way	14+2	1SYN869004R0022	5,695
SHC M WP 16	16 way	16+2	1SYN869004R0023	6,955
SHC M WP 20	20 way	20+2	1SYN869002R0013	6,670

TPN DB - SHDB

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHDB WD 4	4 way	8+12	1SYN869020R0001 ■	2,310
SHDB WD 6	6 way	8+18	1SYN869021R0001	3,020
SHDB WD 8	8 way	8+24	1SYN869022R0001 ■	3,590
SHDB WD 12	12 way	8+36	1SYN869023R0001 ■	5,530
SHDB WD 16	16 way	8+48	1SYN869004R0024	6,270

IP 43 with metal door

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHDB M 4	4 way	8+12	1SYN869016R0001 ■	3,140
SHDB M 6	6 way	8+18	1SYN869017R0001	3,625
SHDB M 8	8 way	8+24	1SYN869018R0001 ■	4,455
SHDB M 12	12 way	8+36	1SYN869019R0001 ■	6,710
SHDB M 16	16 way	8+48	1SYN869004R0025	8,510

IP 43 metal door with acrylic

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHDB P 4	4 way	8+12	1SYN869024R0001	3,670
SHDB P 6	6 way	8+18	1SYN869025R0001	4,790
SHDB P 8	8 way	8+24	1SYN869026R0001	5,435
SHDB P 12	12 way	8+36	1SYN869027R0006	7,580
SHDB P 16	16 way	8+48	1SYN869004R0026	10,070

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHDB M WP 4	4 way	8+12	1SYN869001R0004	9,115
SHDB M WP 6	6 way	8+18	1SYN869001R0006	10,970
SHDB M WP 8	8 way	8+24	1SYN869001R0008	12,010
SHDB M WP 12	12 way	8+36	1SYN869004R0027	17,025
SHDB M WP 16	16 way	8+48	1SYN869004R0028	20,325



■ Stock items

Distribution boards

Classic series



PER PHASE ISOLATION DB - SHPPI

IP 43 WITH METAL DOOR

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SHPPI M 6	6 way	8+18	1SYN8690100R0061	5,810
SHPPI M 8	8 way	8+24	1SYN8690100R0081	6,615
SHPPI M 12	12 way	8+36	1SYN8690100R0121	9,280
SHPPI M 16	16 way	8+48	1SYN8690100R0161	10,820

PER PHASE ISOLATION DB -SVDB

IP 43 WITH METAL DOOR

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVDB M 6	6 way	8+6+18	1SYN869028R0001	6,700
SVDB M 8	8 way	8+6+24	1SYN869029R0001	8,195
SVDB M 12	12 way	8+6+36	1SYN869030R0001	9,465

VERTICAL DB 8P I/C &SP/TP O/G -SVTDB

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB WD 4	4 way	8+12	1SYN869035R0001	7,095
SVTDB WD 6	6 way	8+18	1SYN869036R0001	7,065
SVTDB WD 8	8 way	8+24	1SYN869037R0001	8,245
SVTDB WD 12	12 way	8+36	1SYN869038R0001	11,905



IP 43 WITH METAL DOOR

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB M 4	4 way	8+12	1SYN869031R0001	7,835
SVTDB M 6	6 way	8+18	1SYN869032R0001	9,220
SVTDB M 8	8 way	8+24	1SYN869033R0001	10,100
SVTDB M 12	12 way	8+36	1SYN869034R0001	12,625

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB M WP 4	4 way	8+12	1SYN869004R0041	14,810
SVTDB M WP 6	6 way	8+18	1SYN869004R0015	17,075
SVTDB M WP 8	8 way	8+24	1SYN869004R0043	17,820
SVTDB M WP 12	12 way	8+36	1SYN869004R0044	23,740

Distribution boards

Classic series

Vertical DB 160 A MCCB I/C & SP/TP MCB O/G - E - SVTDB-XT1

IP30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB WD 4XT1	4 way	Tmax XT1+12	1SYN8690VWXT104	7,495
SVTDB WD 6XT1	6 way	Tmax XT1+18	1SYN8690VWXT106	8,395
SVTDB WD 8XT1	8 way	Tmax XT1+24	1SYN8690VWXT108	8,840
SVTDB WD 12XT1	12 way	Tmax XT1+36	1SYN8690VWXT112	13,620

IP43 WITH METAL DOOR

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB M 4XT1	4 way	Tmax XT1+12	1SYN8690VMXT104	8,690
SVTDB M 6XT1	6 way	Tmax XT1+18	1SYN8690VMXT106	10,320
SVTDB M 8XT1	8 way	Tmax XT1+24	1SYN8690VMXT108	10,850
SVTDB M 12XT1	12 way	Tmax XT1+36	1SYN8690VMXT112	14,970

IP54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB M WP4XT1	4 way	Tmax XT1+12	1SYN8690VPXT104	16,880
SVTDB M WP6XT1	6 way	Tmax XT1+18	1SYN8690VPXT106	19,235
SVTDB M WP8XT1	8 way	Tmax XT1+24	1SYN8690VPXT108	22,650
SVTDB M WP12XT1	12 way	Tmax XT1+36	1SYN8690VPXT112	28,130

VERTICAL DB 250A MCCB I/C & SP/TP MCB O/G -SVTDB XT3

IP 30

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB WD 4XT3	4 way	250A Tmax XT3+12	1SYN8690VWXT304	13,665
SVTDB WD 6XT3	6 way	250A Tmax XT3+18	1SYN8690VWXT306	15,000
SVTDB WD 8XT3	8 way	250A Tmax XT3+24	1SYN8690VWXT308	15,205
SVTDB WD 12XT3	12 way	250A Tmax XT3+36	1SYN8690VWXT312	16,795

IP 43 WITH METAL DOOR

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB M 4XT3	4 way	250A Tmax XT3+12	1SYN8690VMXT304	17,655
SVTDB M 6XT3	6 way	250A Tmax XT3+18	1SYN8690VMXT306	19,410
SVTDB M 8XT3	8 way	250A Tmax XT3+24	1SYN8690VMXT308	20,630
SVTDB M 12XT3	12 way	250A Tmax XT3+36	1SYN8690VMXT312	21,035

IP 54

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVTDB M WP 4XT3	4 way	250A Tmax XT3+12	1SYN8690VPXT304	23,370
SVTDB M WP 6XT3	6 way	250A Tmax XT3+18	1SYN8690VPXT306	25,700
SVTDB M WP 8XT3	8 way	250A Tmax XT3+24	1SYN8690VPXT308	26,885
SVTDB M WP 12XT3	12 way	250A Tmax XT3+36	1SYN8690VPXT312	30,905



Distribution boards

Classic series

7 SEGMENT DB - S7SEG

IP43 WITH METAL DOOR



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
S7SEG M 4	4 way	8+12+12	1SYN869058R0001	7,790
S7SEG M 6	6 way	8+12+18	1SYN869059R0001	8,755
S7SEG M 8	8 way	8+12+24	1SYN869060R0001	9,430
S7SEG M 12	12 way	8+12+36	1SYN869061R0001	12,080

7 SEGMENT DB MCCB I/C DB - S7SEG XT1 160A

IP43 WITH METAL DOOR



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
S7SEG M 4 XT1	4 way	T-max XT1 160+12+12	1SYN869057XT104	10,840
S7SEG M 6 XT1	6 way	T-max XT1 160+12+18	1SYN869057XT106	12,410
S7SEG M 8 XT1	8 way	T-max XT1 160+12+24	1SYN869057XT108	14,190
S7SEG M 12 XT1	12 way	T-max XT1 160+12+36	1SYN869057XT112	16,400

PHASE SELECTOR DB - SPVS

IP43 WITH METAL DOOR



Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SPVS M 4(63A)	4 way	8+12	1SYN869100R0001	11,910
SPVS M 6(63A)	6 way	8+18	1SYN869100R0002	12,070
SPVS M 8(63A)	8 way	8+24	1SYN869100R0003	12,855
SPVS M 12(63A)	12 way	8+36	1SYN869100R0004	13,925
SPVS M 4(40A)	4 way	8+12	1SYN869100SP004	10,690
SPVS M 6(40A)	6 way	8+18	1SYN869100SP002	11,020
SPVS M 8(40A)	8 way	8+24	1SYN869100SP003	11,240
SPVS M 12(40A)	12 way	8+36	1SYN869100SP012	11,975

FLEXY TIER DB - SVFL

IP43 WITH METAL DOOR

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVFL M 132	2 row of 13mod	26	1SYN869004R0051	3,810
SVFL M 133	3 row of 13mod	39	1SYN869103R0001	4,640
SVFL M 134	4 row of 13mod	52	1SYN869103R0002	5,000
SVFL M 142	2 row of 14mod	28	1SYN869004R0052	4,810
SVFL M 143	3 row of 14mod	42	1SYN869004R0053	5,900
SVFL M 144	4 row of 14mod	56	1SYN869103R0012	6,100

IP43 METAL DOOR WITH ACRYLIC

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SVFL P 132	2 row of 13mod	26	1SYN869004R0054	3,855
SVFL P 133	3 row of 13mod	39	1SYN869105R0001	4,540
SVFL P 134	4 row of 13mod	52	1SYN869105R0002	5,120
SVFL P 142	2 row of 14mod	28	1SYN869004R0055	5,810
SVFL P 143	3 row of 14mod	42	1SYN869004R0056	6,455
SVFL P 144	4 row of 14mod	56	1SYN869004R0057	6,795

Distribution boards

Classic series



Plug & Socket DB - SGK

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SGK 10 SP	10A SP	1	1SYN869048R0001 ■	1,275
SGK 20 SP	20A SP	1	1SYN869043R0001 ■	1,275
SGK 20 TP	20A TP	3	1SYN869049R0001 ■	2,635
SGK 30 TP	30A TP	3	1SYN869044R0001 ■	3,080
SGK 20 DPR	20A DP RCBO	4	1SYN869051R0001 ■	1,465
SGK 25 FPR	25A FP RCBO	6	1SYN869052R0001 ■	2,440
SGK 60 FP	60A FP	4	1SYN869053R0001 ■	11,715

Plug and sockets in metal enclosure with MCB / RCB provision

Terminals / Pole	Current rating (A)	Protection	Type	Order code	LP(₹)
3 (2P+E)	16	IP30	216RAU6SPNE	1SYN880110R0001	2,052
	32		232RAU6SPNE	1SYN880113R0001	2,237
	63		263RAU6SPNE	1SYN880116R0001	8,584
4 (3P+E)	16		316RAU6TPE	1SYN880111R0001	2,544
	32		332RAU6TPE	1SYN880114R0001	3,166
	63		363RAU6TPE	1SYN880117R0001	9,053
5 (4P+E)	16		416RAU6TPNE	1SYN880112R0001	2,289
	32		432RAU6TPNE	1SYN880115R0001	2,467
	63		463RAU6TPNE	1SYN880118R0001	9,416



Enclosure-SEN

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
SEN 1P	1P Enclosure	1	1SYN869054R0001 ■	350
SEN 2P	2P Enclosure	2	1SYN869055R0001 ■	515
SEN 4P	4P Enclosure	4	1SYN869056R0001 ■	520
SEN 6P	6P Enclosure	6	1SYN869057R0001 ■	730
SEN 8P	8P Enclosure	8	1SYN869004R0029 ■	840

BUSBAR SP I/C & SP O/G, BLANKING PLATE

Product description	No. of ways	No. of modules	Ordering code	Unit M.R.P. (₹)
13 Module Pin type Busbars	13	13	1SYN360025P0001	320
14 Module Pin type Busbars	14	14	1SYN869103R0013	510
Blank PL		1	1SYN869004R0059 ■	15

Distribution boards

Classic series

Cable end box

Product description	No. of ways	Ordering code	Unit M.R.P. (₹)
SPN IP30 SHC			
SHC WD 4/CEB	For 4 way SPN IP30 DB	1SYN869004R0064	400
SHC WD 6/CEB	For 6 way SPN IP30 DB	1SYN869004R0065	440
SHC WD 8/CEB	For 8 way SPN IP30 DB	1SYN869004R0066	465
SHC WD 10/CEB	For 10 way SPN IP30 DB	1SYN869004R0067	515
SHC WD 12/CEB	For 12 way SPN IP30 DB	1SYN869004R0068	565
SHC WD 14/CEB	For 14 way SPN IP30 DB	1SYN869004RCE71	630
SHC WD 16/CEB	For 16 way SPN IP30 DB	1SYN869004R0070	720
SHC WD 20/CEB	For 20 way SPN IP30 DB	1SYN869004R0071	800
SPN IP43 SHC			
SHC M 4/CEB	For 4 way SPN IP 43 DB	1SYN869103R0014	470
SHC M 6/CEB	For 6 way SPN IP43 DB	1SYN869103R0015	490
SHC M 8/CEB	For 8 way SPN IP43 DB	1SYN869004R0082	535
SHC M 10/CEB	For 10 way SPN IP43 DB	1SYN869004R0083	565
SHC M 12/CEB	For 12 way SPN IP43 DB	1SYN869004R0084	610
SHC M 14/CEB	For 14 way SPN IP43 DB	1SYN869004R0085	700
SHC M 16/CEB	For 16 way SPN IP43 DB	1SYN869004R0086	850
SHC M 20/CEB	For 20 way TPN IP43 DB	1SYN869004R0087	1,055
TPN IP30 SHDB			
SHDB WD 4/CEB	For 4 way TPN IP30 DB	1SYN869004R0072	690
SHDB WD 6/CEB	For 6 way TPN IP30 DB	1SYN869004R0073	720
SHDB WD 8/CEB	For 8 way TPN IP30 DB	1SYN869004R0074	885
SHDB WD 12/CEB	For 12 way TPN IP30 DB	1SYN869004R0075	1,325
SHDB WD 16/CEB	For 16 way TPN IP30 DB	1SYN869004R0076	1,725
TPN IP43 SHDB			
SHDB M 4/CEB	For 4 way TPN IP43 DB	1SYN869004R0088	795
SHDB M 6/CEB	For 6 way TPN IP43 DB	1SYN869004R0089	780
SHDB M 8/CEB	For 8 way TPN IP43 DB	1SYN869004R0090	945
SHDB M 12/CEB	For 12 way TPN IP43 DB	1SYN869004R0091	1,260
SHDB M 16/CEB	For 16 way TPN IP43 DB	1SYN869004R0092	1,660
TPN IP43 SHPPI			
SHPPI M 6/CEB	For 6way PPI IP43 DB	1SYN869004R0093	920
SHPPI M 8/CEB	For 8way PPI IP43 DB	1SYN869004R0094	1,270
SHPPI M 12/CEB	For 12way PPI IP43 DB	1SYN869004R0095	1,820
SHPPI M 16/CEB	For 16way PPI IP43 DB	1SYN869004R0096	1,975
TPN IP43 SVDB			
SVDB M 6/CEB	For 6way SVDB IP43 DB	1SYN869004R0097	985
SVDB M 8/CEB	For 8way SVDB IP43 DB	1SYN869004R0098	995
SVDB M 12/CEB	For 12way SVDB IP43 DB	1SYN869004R0099	1,150
Flexy DB IP43			
SVFL 13M/CEB	For all SVFL 13Mod DBs	1SYN869004R0103	1,050
SVFL 14M/CEB	For all SVFL 14Mod DBs	1SYN869004R0104	1,275
VTPN IP30 SVTDB			
SVTDB WD /CEB	For all SVTDBs(IP30DBs)	1SYN86900WD0104	1,710
VTPN IP43 SVTDB			
SVTDB M/CEB	For all SVTDBs(IP43DBs)	1SYN869004R0100	1,950
VTPN IP30 XT1 160A			
SVTDB WD XT1 160/CEB	For all SVTDB XT1 160(IP30 DBs)	1SYN869004C0100	2,405
VTPN IP43 XT1 160A			
SVTDB M XT1 160/CEB	For all SVTDB XT1 160 DBs(IP43DBs)	1SYN869004C0101	2,380
VTPN IP30 XT3 250A			
SVTDB WD T3 250/CEB	For all SVTDB XT3 250 DBs(IP30 DBs)	1SYN869004C0102	2,760
VTPN IP43 XT3 250A			
SVTDB M XT3 250/CEB	For all SVTDB XT3 250 DBs(IP43DBs)	1SYN869004C0103	2,900

Distribution boards

Gemini switchboard

ABB SACE's Gemini range is revolutionizing the market of low voltage electric insulating switchboards. The reason for this is that it is the first switchboard made in thermoplastic material, to which the co-injection molding technique gives the same mechanical characteristics as polyester. This means that it is extremely sturdy, with its rigid covering and expanded internal

core. Moreover, it contains no fiber glass, a material that with time rises to the surface, jeopardizing the functioning and safety of switchboards made in polyester with which it is usually mixed. Available in 6 different sizes with transparent or opaque door, the Gemini switchboards are suitable for installation in any application context.



Compliance with standard	IEC60670, EN 50298, 60439-1, 62208, 61439 – 1 & 2
Rated service voltage	1000V AC
Degree of protection	IP 30 open door / IP66 closed door

* Details available on request

Wiring accessories

IVIE **NEW**

Switch to the future

IVIE is the latest premium modular range of wiring accessories designed to address various functionalities. These include basic switching, controlling, comfort and energy saving.

The IVIE range innovatively matches your interiors and aesthetically brings out the best in your comfort zone. The enhanced design for reliable performance of this range is for the passionate, compassionate, intuitive and magnetic personality within each one of us.

The IVIE range, includes the tastefully selected color options, caters to the needs of various segments like residential, commercial and hospitality.

IVIE with its ability to integrate home automation solutions in your existing switch box, makes the range future proof.

IVIE truly makes you want to switch to the future.

Sleek and convex design in different finishes

Thanks to the complete system, The Ivie series provides a comprehensive range of solutions for building concepts. The convex and sleek design not only provides quality and style to the overall building, but is easy to install.

—
01



—
02



—
03



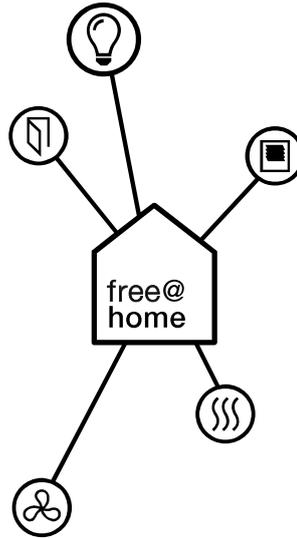
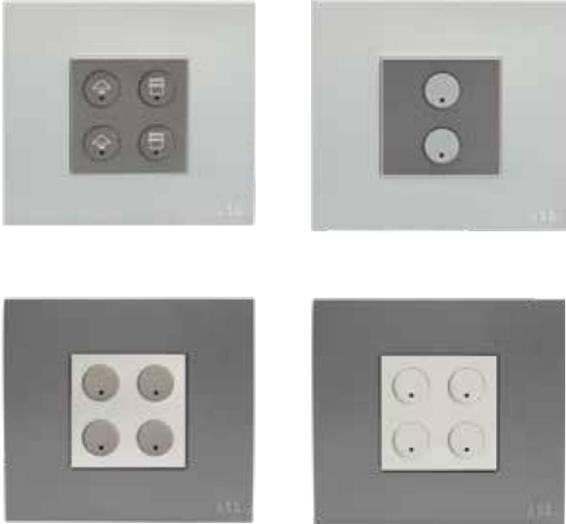
Different finishes and combinations:

- 01 Anthracite grey mechanisms in Silver plate
- 02 Silver mechanisms in Anthracite Grey plate
- 03 Anthracite grey mechanisms in White plate

Flexibility in design which provides total control

The IVIE range is the first Indian range to incorporate wired and wireless home automation systems together. This range can be integrated with

ABB-free@home® home automation system, which is the most intelligent way of managing spaces with energy saving.



Great comfort, safety and energy efficiency for buildings

ABB-free@home® sensor for switching control, blind control, dimming and scene control.



IVIE complete range

IVIE mechanisms - White



1SYK100001A1001



1SYK100001A1007



1SYK100001A1008



1SYK100001
A1003



1SYK100001
A1005



1SYK100001A1022



1SYK100001A1023



2CLA218500
N1102



2CLA228500
N1102



1SYK100001A1041

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 6 A - 240 V ~				
IIS10610 BL - 6A 1 way switch	1	20/400	1SYK100001A1001	172
IIS10620 BL - 6A 2 way switch	1	20/400	1SYK100001A1002	258

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 16 A - 240 V ~				
IIS11610 BL - 16A 1 way switch	1	20/400	1SYK100001A1006	338
IIS1161L BL - 16A 1 way switch with indicator	1	20/400	1SYK100001A1007	406

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 32 A - 240 V ~				
IIS2321L BL - 32A, DP switch	2	10/200	1SYK100001A1008	1,120

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Bell Push				
IIS106B0 BL - 6A Bell switch	1	20/400	1SYK100001A1003	284
IIS106BL BL - 6A Bell switch with indicator	1	20/400	1SYK100001A1004	370
IIS206BL BL - 6A Mega Bell switch with indicator	2	10/200	1SYK100001A1005	502

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Sockets				
IIK20506 BL 6A, 5 Pin socket	2	10/200	1SYK100001A1027	360
IIK20613 BL - 6/13A universal socket	2	10/200	1SYK100001A1022	440
IIK20616 BL - 6/16A socket	2	10/200	1SYK100001A1023	494
IIK20620 BL - 6/20A socket	2	10/200	1SYK100001A1024	560
IIK20625 BL - 6/25A socket	2	10/200	1SYK100001A1025	618
IIK10006 BL - 6A 2 pin socket	1	20/400	1SYK100001A1026	484
N2238 BL - Euro-American earthed socket outlet, 125/250V AC, 15/16A, 2 P+E	2	10	2CLA223800N1102	
N2135 BL - Euro-American unearthed socket outlet, 125/250V AC, 15/16A, 2 P	1	20	2CLA213500N1102	Upon request
N2237 BL - British standard socket outlet, 250V AC, 13A, 2 P+E	2	10	2CLA223700N1102	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
USB chargers				
N2185 BL - USB charger 0.75A, 100-240V	1	1	2CLA218500N1102	
N2185.2 BL - USB charger 2A, 100-230V	1	1	2CLA218520N1102	Upon request
N2285 BL - USB charger 1.5A, 100-240V	2	1	2CLA228500N1102	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Blank plates				
IIM1BLNK BL - blank plate	1	20/400	1SYK100001A1041	56

IVIE complete range

IVIE mechanisms - White



1SYK100001A1042



1SYK100001A1045



2CLA226020N1102



2CLA226030N1102



2CLA226080N1102



2CLA226090N1102

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Dimmer & fan regulators				
IIM2FR05 BL - step fan regulator 5 step	2	5/100	1SYK100001A1042	1,100
IIM1FR04 BL - step fan regulator 4 step	1	10/200	1SYK100001A1043	960
IIM2D400 BL - dimmer 400 watt	1	10/200	1SYK100001A1045	1,232
N2260.2 BL - Universal rotatory/push dimmer, 230V • Rated voltage: 230 V AC • Max. power: incandescent: 500 Watt halogen lamp with electronic transformer: 500 VA • Halogen lamp with ferromagnetic transformer: 400 VA	2	1	2CLA226020N1102	
N2260.3 BL - LED rotatory/push dimmer, 230V • Rated voltage: 230 V AC • Nominal power: 250 W/VA Power (min./max load): LEDi: 2/100 W/VA (max. 10 lamps) • Dimmable energy saving lamps: 2/100 W/VA (max. 10 lamps) • LV LEDi with transformer (only type L or LC): 4/100 W/VA (max. 10 lamps) • Incandescent lamps: 10/250 W/VA • Halogen lamps: 10/250 W/VA • LV halogen with transformer (only type L or LC): 10/250 W/VA (max. 10 lamps) • 2 wire connection. Optional: auxiliary on/off with 2-way switch N2X02	2	1	2CLA226030N1102	Upon request
N2260.8 BL - LED rotatory/push dimmer • Rated voltage: 127 V AC, Frequency: 50/60 Hz (Nominal power: 140 W/VA) • Power (min./max load): LEDi: 2/55 W/VA (max. 10 lamps) • Dimmable energy saving lamps: 2/55 W/VA (max. 10 lamps) • LV LEDi with transformer (only type L or LC): 4/55 W/VA (max. 10 lamps) • Incandescent lamps: 10/140 W/VA • Halogen lamps: 10/140 W/VA • LV halogen with transformer (only type L or LC): 10/140 W/VA (max. 10 lamps)	2	1	2CLA226080N1102	
N2260.9 BL - 1-10V rotary dimmer • Rated voltage: 127 - 230 V AC/50 - 60 Hz • Max. power: 230 Vac: 700 VA • 127 V AC: 350 VA • Max. 6 ballasts per device	2	1	2CLA226090N1102	



1SYK100001A1047

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Data & voice				
IIM1RJ11 BL - RJ11 Tel. jack 2 pin	1	20/400	1SYK100001A1047	246
IIM1RJ45 BL - RJ45 Jack cat 6	1	20/400	1SYK100001A1048	836



1SYK100001A1049

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
TV Socket				
IIM1TVSK BL - TV co-axial socket	1	20/400	1SYK100001A1049	250



1SYK100001A1051

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Starters				
IIM2ST20 BL - Single Phase Starter 20A	2	5/100	1SYK100001A1051	792
IIM2ST25 BL - Single Phase Starter 25A	2	5/100	1SYK100001A1052	810

IVIE complete range

IVIE mechanisms - White



1SYK100001A1055



2CLA224450N1102 2CLA218050N1102
2CLA218040N1102



2CLA221410N1102



1SYK100001A1059



2CLA215520N1102 2CLA215530N1102



2CLA215540N1102 2CLA215560N1102



2CLA224100N1102



1SYK100001A1054



2CLA211900N1102 2CLA221900N1102



1SYK100001A1053

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
DND & MMR				
IIM1DNDS BL - DND and MMR set internal & external	2+3	5/100	1SYK100001A1055	
N2244.5 BL - DND and MUR 2-gang interlocked switch	2	5	2CLA224450N1102	Upon request
N2180.5 BL - LED MUR signaling light	1	5	2CLA218050N1102	
N2180.4 BL - LED DND signaling light	1	5	2CLA218040N1102	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Key card switches				
N2214.1 BL - Card switch 1-gang, 1-way, DP	2	1	2CLA221410N1102	Upon request

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
ABB Tvisha				
Down lighter				
IIM3DOWN BL-down lighter	3	5/100	1SYK100001A1059	720

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Audio & video connector				
N2155.2 BL - 2x RCA connection unit	1	1	2CLA215520N1102	
N2155.3 BL - 3x RCA connection unit	1	1	2CLA215530N1102	
N2155.4 BL - Mini-Jack connection unit	1	1	2CLA215540N1102	
N2155.5 BL - VGA connection unit	1	1	2CLA215550N1102	Upon request
N2155.6 BL - HDMI connection unit	1	1	2CLA215560N1102	
N2155.7 BL - HDMI female-female connection unit	1	1	2CLA215570N1102	
N2155.8 BL - USB connection unit	1	1	2CLA215580N1102	
N2155.9 BL - USB female-female connection unit	1	1	2CLA215590N1102	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Motion sensor				
N2241 BL - 110° motion sensor • Max. power: Incandescent: 1,800W @230V AC/1,000W @127V AC • Halogen with electronic or ferromagnetic transformer: 750VA @230V AC/400VA @127V AC - Fluorescent lamps or motors: 400VA @230V AC/200VA @127V AC • For automatic switching of devices dependent on motion and brightness • With integrated selector switch for automatic ON-OFF in the front side • Switch-off delay: 10 sec to 10 min or short-time pulse 1 sec adjustable (from the front side) • Detection range: 5 m radius • Adjustable light set point level for activation (from the front side) • Detection angle: 110° Mounting height: 1, 2 m Auxiliary control with N2X04.X push-buttons	2	1	2CLA224100N1102	Upon request

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Buzzer & door bell				
IIM2BUZR BL - Buzzer	2	5/100	1SYK100001A1054	496
N2119 BL - Buzzer	1	1	2CLA211900N1102	
N2219 BL - Buzzer	2	1	2CLA221900N1102	Upon request
N2224 BL - Electronic door bell 230 V AC	2	1	2CLA222400N1102	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Indicator				
IIM1INDI BL - Indicator	1	20/400	1SYK100001A1053	380

IVIE complete range

IVIE mechanisms - White



2CLA218000N1602

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Signaling light				
N2180 BL - L ED white signaling light, Lamp: white LED Luminous flux: > 2 lumen at 1 meter, white diffuser	1	5	2CLA218000N1102	
N2180 RJ - LED red signaling light, Lamp: white LED Luminous flux: > 2 lumen at 1 meter, Red diffuser	1	1	2CLA218000N1602	
N2180 VD - N2180 VD, Lamp: white LED Luminous flux: > 2 lumen at 1 meter, Green diffuser	1	1	2CLA218000N1802	
N2280 BL - LED signaling light, Lamp: white LED Luminous flux: > 2 lumen at 1 meter, White diffuser	2	1	2CLA228000N1102	Upon request
N2281 BL - Beacon LED light, Lamp: white LED Luminous flux: > 2 lumen at 1 meter, white diffuser, Autonomy: 3 hours (1 hour at maximum illumination 2 hours with lower illumination), Battery: Ni-MH (estimated lifetime: 4 years)	2	1	2CLA228100N1102	



2CLA814050 A1002



2CLA224050 N1102

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Thermostat				
8140.5 - Digital room thermostat • Maximum load: 3A cos = 0,5 • Output relay operation modes: Hysteresis: 0.5° C • Pulse-width modulation: with a ±4°C difference with the set-point temperature • Variable from 100% to 0% modulation • To be installed with N2240.5 cover plates	2	1	2CLA814050A1002	Upon request
N2240.5 BL - Cover plate for digital thermostat - 2M	2	1	2CLA224050N1102	



2CLA936810A1001



2CLA936820 A1001



2CLA225710 N1102

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Sound				
9368.1 - Multiroom sound module	1	1	2CLA936810A1001	
9368.2 - Remote control for multiroom sound module	2	1	2CLA936820A1001	
N2268 BL - Cover plate for radio/remote control modules	-	1	2CLA226800N1102	
9368 - FM - Radio and alarm module	2	1	2CLA936800A1001	Upon request
N2268 BL - Cover plate for radio/remote control modules	-	1	2CLA226800N1102	
9368.3 - Auxiliary module	2	1	2CLA936830A1001	
N2268.3 BL - Cover plate for I/O + USB + Bluetooth module	-	1	2CLA226830N1102	
N2257.1 BL - Speaker connection unit	2	1	2CLA225710N1102	

* More details will be provided upon request



1SYK100001 A1071



1SYK100001 A1072



1SYK100001 A1073



1SYK100001 A1074



1SYK100001A1077



1SYK100001A1079

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
White plate with frame				
IIP0133 BL - 1M plate	1	15/360	1SYK100001A1071	172
IIP0233 BL - 2M plate	2	15/360	1SYK100001A1072	184
IIPP343 BL - 3M plate power	3	10/240	1SYK100001A1073	197
IIP0343 BL - 3M plate	3	10/240	1SYK100001A1074	202
IIP0453 BL - 4M plate	4	10/190	1SYK100001A1075	260
IIP0683 BL - 6M plate	6	5/120	1SYK100001A1076	378
IIP0893 BL - 8M plate	8	5/120	1SYK100001A1077	410
IIP0855 BL - 8M plate square	8	5/95	1SYK100001A1078	518
IIP1286 BL - 12M plate	12	5/95	1SYK100001A1079	620
IIP1888 BL - 18M plate	18	5/40	1SYK100001A1080	830

IVIE complete range

IVIE mechanisms - Anthracite Grey



1SYK100001A1201

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 6 A - 240 V ~				
IIS10610 AN - 6A 1 way switch	1	20/400	1SYK100001A1201	206
IIS10620 AN - 6 A 2 way switch	1	20/400	1SYK100001A1202	284



1SYK100001A1207

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 16 A - 240 V ~				
IIS11610 AN - 16A 1 way switch	1	20/400	1SYK100001A1206	378
IIS1161L AN - 16A 1 way switch with ind.	1	20/400	1SYK100001A1207	470



1SYK100001A1208

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 32 A - 240 V ~				
IIS2321L AN - 32A, DP switch	2	10/200	1SYK100001A1208	1,292



1SYK100001 A1203



1SYK100001 A1205

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Bell Push - 240 V ~				
IIS106B0 AN - 6A Bell Switch	1	20/400	1SYK100001A1203	330
IIS106BL AN - 6A Bell Switch with ind.	1	20/400	1SYK100001A1204	418
IIS206BL AN - 6A Mega Bell switch with ind.	2	10/200	1SYK100001A1205	576



1SYK100001A1222



1SYK100001 A1223



1SYK100001 A1226

Type reference and description	Number of modules	Pack	Ordering code	MRP(₹)
Sockets - 240 V ~				
IIK20506 AN 6A, 5 Pin socket	2	10/200	1SYK100001A1227	400
IIK20613 AN - 6/13A universal socket	2	10/200	1SYK100001A1222	480
IIK20616 AN - 6/16A socket	2	10/200	1SYK100001A1223	570
IIK20620 AN - 6/20A socket	2	10/200	1SYK100001A1224	640
IIK20625 AN - 6/25A socket	2	10/200	1SYK100001A1225	702
IIK10006 AN - 6A 2 pin socket	1	20/400	1SYK100001A1226	558
N2238 AN - Euro-American earthed socket outlet, Rated current: 15/16A, 2P+E/NEMA 5-15R	2	10	2CLA223800N1802	
N2135 AN - Euro-American unearthed socket outlet, Rated current: 15/16A, 2P (non-earthed)/NEMA 1-15R	1	20	2CLA213500N1802	Upon request
N2237 AN - British standard socket outlet, Rated current: 13A, 2P+E	2	10	2CLA223700N1302	



2CLA218500 N1802

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
USB chargers				
N2185 AN - USB charger 750mA, 1-gang	1	1	2CLA218500N1802	
N2185.2 AN - USB charger 2.000mA, 1-gang	1	1	2CLA218520N1802	Upon request
N2285 AN - USB charger 1.500mA, 2-gang	2	1	2CLA228500N1802	



1SYK100001A1241

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Blank plates				
IIM1BLNK AN - Blank plate	1	20/400	1SYK100001A1241	112

IVIE complete range

IVIE mechanisms - Anthracite Grey



1SYK100001A1242



2CLA226020N1802



2CLA226030N1802



2CLA226080N1802



2CLA226090N1802



1SYK100001A1247



1SYK100001A1249



1SYK100001A1257



1SYK100001A1255



Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Motion sensor				
IIM2FR05 AN - Step fan regulator 5 step	2	5/100	1SYK100001A1242	1,250
IIM1FR04 AN - Step fan regulator 4 step	1	10/200	1SYK100001A1243	1,104
IIM1D400 AN - Dimmer 400 Watt	1	10/200	1SYK100001A1245	1,414
N2260.2 AN - Universal rotatory/push dimmer • Rated voltage: 230 V AC • Max. power: Incandescent: 500 W • Halogen lamp with electronic transformer: 500 VA • Halogen lamp with ferromagnetic transformer: 400 VA	2	1	2CLA226020N1802	
N2260.3 AN - LED rotatory/push dimmer • Rated voltage: 230 V AC • Nominal power: 250 W/VA • Power (min./max load): LEDi: 2/100 W/VA (max. 10 lamps). Dimmable energy saving lamps: 2/100 W/VA (max. 10 lamps) • LV LEDi with transformer (only type L or LC): 4/100 W/VA (max. 10 lamps) • Incandescent lamps: 10/250 W/VA • Halogen lamps: 10/250 W/VA • LV halogen with transformer (only type L or LC): 10/250 W/VA (max. 10 lamps) • 2 wire connection • Optional: auxiliary on/off with 2-way switch N2X02	2	1	2CLA226030N1802	Upon request
N2260.8 AN - LED rotatory/push dimmer • Rated voltage: 127 V AC • Frequency: 50/60 Hz (Nominal power: 140 W/ VA) • Power (min./max load): LEDi: 2/55 W/VA (max. 10 lamps) • Dimmable energy saving lamps: 2/55 W/VA (max. 10 lamps) • LV LEDi with transformer (only type L or LC): 4/55 W/VA (max. 10 lamps) • Incandescent lamps: 10/140 W/VA • Halogen lamps: 10/140 W/VA • LV halogen with transformer (only type L or LC): 10/140 W/VA (max. 10 lamps)	2	1	2CLA226080N1802	
N2260.9 AN - 1-10V rotary dimmer • Rated voltage: 127 - 230 V AC / 50 - 60 Hz • Max. power: 230 V AC: 700 VA • 127 V AC: 350 VA • Max. 6 ballasts per device	2	1	2CLA226090N1802	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Data & Voice				
IIM1RJ11 AN - RJ11 Tel. jack 2 pin	1	20/400	1SYK100001A1247	284
IIM1RJ45 AN - RJ45 Jack cat 6	1	20/400	1SYK100001A1248	944

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
TV Socket				
IIM1TVSK AN - TV co-axial socket	1	20/400	1SYK100001A1249	296

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Shaver Socket				
IIM2SVSK AN - Shaver Socket	2	5/100	1SYK100001A1257	1,710

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
DND & MMR				
IIM1DNDS AN - DND and MMR set internal & external	2+3	5/100	1SYK100001A1255	2,050
N2244.5 AN - DND and MUR 2-gang interlocked switch	2	1	2CLA224450N1802	
N2180.4 AN - LED MUR signaling light	1	1	2CLA218050N1802	Upon request
N2180.4 AN - LED DND signaling light	1	1	2CLA218040N1802	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Key Card Switches				
Card switch 1-gang, 1-way, DP	2	1	2CLA221410N1802	Upon request

IVIE complete range

IVIE mechanisms - Anthracite Grey



1SYK100001A1259

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Down lighter				
IIM3DOWN AN - Down lighter	3	5/100	1SYK100001A1259	1,072



2CLA215520 N1802



2CLA215530 N1802

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Audio & Video Connector				
N2155.2 AN - 2x RCA connection unit	1	1	2CLA215520N1802	Upon request
N2155.3 AN - 3x RCA connection unit	1	1	2CLA215530N1802	
N2155.4 AN - Mini-Jack connection unit	1	1	2CLA215540N1802	
N2155.5 AN - VGA connection unit	1	1	2CLA215550N1802	
N2155.6 AN - HDMI connection unit	1	1	2CLA215560N1802	
N2155.7 AN - HDMI female-female connection unit	1	1	2CLA215570N1802	
N2155.8 AN - USB connection unit	1	1	2CLA215580N1802	
N2155.9 AN - USB female-female connection unit	1	1	2CLA215590N1802	



2CLA215540 N1802



2CLA215550 N1802



2CLA215560 N1802



2CLA215580 N1802

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Motion Sensor				
N2241 AN - 110° motion sensor • Max. power: Incandescent: 1.800W @230V AC/1.000W @127V AC • Halogen with electronic or ferromagnetic transformer: 750VA @230V AC/400VA @127V AC • Fluorescent lamps or motors: 400VA @230V AC/200VA @127V AC • For automatic switching of devices dependent on motion and brightness • With integrated selector switch for automatic ON-OFF in the front side • Switch-off delay: 10 sec. to 10 min. or short-time pulse 1 sec adjustable (from the front side) • Detection range: 5 m radius Adjustable light set point level for activation (from the front side) • Detection angle: 110° Mounting height: 1, 2 m auxiliary control with N2X04.X push-buttons	2	1	2CLA224100N1802	Upon request



2CLA211900 N1802



2CLA221900 N1802

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Buzzer & Door Bell				
IM2BUZR AN - Buzzer	2	5/100	1SYK100001A1254	726
N2119 AN - Buzzer	1	1	2CLA211900N1802	Upon request
N2219 AN - Buzzer	2	1	2CLA221900N1802	
N2224 AN - Electronic door bell 230 V AC	2	1	2CLA222400N1802	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Indicator				
IIM1INDI AN - Indicator	1	20/400	1SYK100001A1253	426

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Thermostat				
N2240.5 AN - Cover plate for digital thermostat	2	1	2CLA224050N1802	Upon request

IVIE complete range

IVIE mechanisms - Anthracite Grey



1SYK100001 A1271 1SYK100001 A1272



1SYK100001A1273



1SYK100001A1274



1SYK100001A1277

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P. (₹)
Anthracite plate with frame				
IIP0133 AN - 1M plate	1	15/360	1SYK100001A1271	410
IIP0233 AN - 2M plate	2	15/360	1SYK100001A1272	362
IIPP343 AN - 3M plate power	3	10/240	1SYK100001A1273	490
IIP0343 AN - 3M plate	3	10/240	1SYK100001A1274	508
IIP0453 AN - 4M plate	4	10/190	1SYK100001A1275	636
IIP0683 AN - 6M plate	6	5/120	1SYK100001A1276	918
IIP0893 AN - 8M plate	8	5/120	1SYK100001A1277	1,060
IIP0855 AN - 8M plate square	8	5/95	1SYK100001A1278	1,150
IIP1286 AN - 12M plate	12	5/95	1SYK100001A1279	1,540
IIP1888 AN - 18M plate	18	5/40	1SYK100001A1280	2,170

IVIE complete range

IVIE mechanisms - Silver



1SYK100001A1101

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 6 A - 240 V ~				
IIS10610 PL - 6A 1 way switch	1	20/400	1SYK100001A1101	206
IIS10620 PL - 6A 2 way switch	1	20/400	1SYK100001A1102	284



1SYK100001A1107

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 16 A - 240 V ~				
IIS11610 PL - 16A 1 way switch	1	20/400	1SYK100001A1106	378
IIS1161L PL - 16A 1 way switch with Ind.	1	20/400	1SYK100001A1107	470



1SYK100001A1108

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Switch 32 A - 240 V ~				
IIS2321L PL - 32A, DP switch	2	10/200	1SYK100001A1108	1292



1SYK100001 A1003



1SYK100001 A1105

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Bell Push - 240 V ~				
IIS106B0 PL - 6A Bell Switch	1	20/400	1SYK100001A1103	330
IIS106BL PL - 6A Bell Switch with Ind.	1	20/400	1SYK100001A1104	418
IIS206BL PL - 6A Mega bell switch with Ind	2	10/200	1SYK100001A1105	578



1SYK100001A1121



1SYK100001A1122

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Sockets - 240 V ~				
IIK20506 PL 6A, 5 Pin socket	2	10/200	1SYK100001A1127	400
IIK20613 PL - 6/13A universal socket	2	10/200	1SYK100001A1122	480
IIK20616 PL - 6/16A socket	2	10/200	1SYK100001A1123	570
IIK20620 PL - 6/20A socket	2	10/200	1SYK100001A1124	640
IIK20625 PL - 6/25A socket	2	10/200	1SYK100001A1125	702
IIK10006 PL - 6A 2 pin socket	1	20/400	1SYK100001A1126	558
N2238 PL - Euro-American earthed socket outlet, Rated voltage: 125/250 Vac, Rated current: 15/16A. 2P+E/ NEMA 5-15R	2	10	2CLA223800N1302	
N2135 PL - Euro-American unearthed socket outlet, Rated voltage: 125/250 V AC, Rated current: 15/16A. 2P (non-earthed)/NEMA 1-15R	1	20	2CLA213500N1302	Upon request
N2237 PL - British standard socket outlet, Rated current: 13A, 2P+E	2	10	2CLA223700N1802	



1SYK100001 A1123



1SYK100001 A1126

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
USB Chargers				
N2185 PL - USB charger 750mA, 1-gang	1	1	2CLA218500N1302	
N2185.2 PL - USB charger 2.000mA, 1-gang	1	1	2CLA218520N1302	Upon request
N2285 PL - USB charger 1.500mA, 2-gang	2	1	2CLA228500N1302	



2CLA218500 N1302



2CLA228500 N1302

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Blank Plates				
IIM1BLNK PL - Blank Plate	1	20/400	1SYK100001A1141	112

IVIE complete range

IVIE mechanisms - Silver



1SYK100001A1142



2CLA226030N1302



2CLA226030N1302



2CLA226080N1302



2CLA226090N1302

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Dimmer & Fan Regulators				
IIM2FR05 PL - Step fan regulator 5 step	2	5/100	1SYK100001A1142	1,252
IIM1FR04 PL - Step fan regulator 4 step	1	10/200	1SYK100001A1143	1,104
IIM1D400 PL - Dimmer 400 Watt	1	10/200	1SYK100001A1145	1,414
N2260.2 PL - Universal rotatory/push dimmer • Rated voltage: 230 V AC • Max. power: Incandescent: 500 W • Halogen lamp with electronic transformer: 500 VA • Halogen lamp with ferromagnetic transformer: 400 VA.	2	1	2CLA226020N1302	Upon request
N2260.3 PL - LED rotatory/push dimmer 230 V AC • Rated voltage: 230 V AC, Nominal power: 250 W/VA • Power (min./max load): LEDi: 2/100 W/VA (max. 10 lamps) • Dimmable energy saving lamps: 2/100 W/VA (max. 10 lamps) • LV LEDi with transformer (only type L or LC): 4/100 W/VA (max. 10 lamps) • Incandescent lamps: 10/250 W/VA • Halogen lamps: 10/250 W/VA • LV halogen with transformer (only type L or LC): 10/250 W/VA (max. 10 lamps) • 2 wire connection • Optional: auxiliary on/off with 2-way switch N2X02	2	1	2CLA226030N1302	
N2260.8 PL - LED rotatory/push dimmer 127 V AC • Rated voltage: 127 V AC, Frequency: 50/60 Hz (Nominal power: 140 W/VA) • Power (min./max load): LEDi: 2/55 W/VA (max. 10 lamps) • Dimmable energy saving lamps: 2/55 W/VA (max. 10 lamps) • LV LEDi with transformer (only type L or LC): 4/55 W/VA (max. 10 lamps) • Incandescent lamps: 10/140 W/VA • Halogen lamps: 10/140 W/VA • LV halogen with transformer (only type L or LC): 10/140 W/VA (max. 10 lamps)	2	1	2CLA226080N1302	
N2260.9 PL - 1-10V rotary dimmer • Rated voltage: 127 - 230 V AC/50 - 60 Hz • Max. power: 230 Vac: 700 VA • 127 Vac: 350 VA • Max. 6 ballasts per device	2	1	2CLA226090N1302	



1SYK100001A1147



1SYK100001A1149

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Data & Voice				
IIM1RJ11 PL - RJ11 Tel. jack 2 pin	1	20/400	1SYK100001A1147	284
IIM1RJ45 PL - RJ45 Jack cat 6	1	20/400	1SYK100001A1148	946



1SYK100001A1157

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
TV Socket				
IIM1TVSK PL - TV co-axial socket	1	20/400	1SYK100001A1149	296



2CLA218040N1302

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Shaver Socket				
IIM2SVSK PL - Shaver Socket	2	5/100	1SYK100001A1157	1,710

Type reference and description	Number of modules	Pack	Ordering code	M.R.P.(₹)
DND & MMR				
IIM1DNDS PL - DND and MMR set internal & external	2+3	5/100	1SYK100001A1155	2,050
N2244.5 PL - DND and MUR 2-gang interlocked switch	1	1	2CLA224450N1302	Upon request
N2180.4 PL - LED DND signaling light	2	1	2CLA218040N1302	
N2180.4 BL - LED MUR signaling light	1	1	2CLA218050N1102	

IVIE complete range

IVIE mechanisms - Silver



2CLA221410N1302



1SYK100001A1159



2CLA215520
N1302



2CLA215530
N1302



2CLA215540
N1302



2CLA215550
N1302



2CLA215560
N1302



2CLA215580
N1302



2CLA211900
N1302



2CLA221900
N1302

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Key Card Switches				
N2214.1 PL - Card switch 1-gang, 1-way, DP	2	1	2CLA221410N1302	Upon request

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Down Lighter				
IIM3DOWN PL - Down lighter	2	5/100	1SYK100001A1159	1,074

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Audio & Video Connector				
N2155.2 PL - 2x RCA connection unit	1	1	2CLA215520N1302	Upon request
N2155.3 PL - 3x RCA connection unit	1	1	2CLA215530N1302	
N2155.4 PL - Mini-Jack connection unit	1	1	2CLA215540N1302	
N2155.5 PL - VGA connection unit	1	1	2CLA215550N1302	
N2155.6 PL - HDMI connection unit	1	1	2CLA215560N1302	
N2155.7 PL - HDMI female-female connection unit	1	1	2CLA215570N1302	
N2155.8 PL - USB connection unit	1	1	2CLA215580N1302	
N2155.9 PL - USB female-female connection unit	1	1	2CLA215590N1302	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Motion Sensor				
N2241 PL - 110° motion sensor Max. power: Incandescent: 1.800W @230V AC/1.000W @127V AC • Halogen with electronic or ferromagnetic transformer: 750VA @230V AC/400VA @127V AC - Fluorescent lamps or motors: 400VA @230V / 200VA @127Vac • For automatic switching of devices dependent on motion and brightness • With integrated selector switch for automatic ON-OFF in the front side, Switch-off delay: 10 sec to 10 min or short-time pulse 1 sec adjustable (from the front side) • Detection range: 5 m radius Adjustable light set point level for activation (from the front side) • Detection angle: 110° Mounting height: 1, 2 m Auxiliary control with N2X04.X push-buttons	2	1	2CLA224100N1302	Upon request

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Buzzer & Door Bell				
IIM2BUZR PL - Buzzer	2	5/100	1SYK100001A1154	726
N2119 PL - Buzzer	1	1	2CLA211900N1302	Upon request
N2219 PL - Buzzer	2	1	2CLA221900N1302	
N2224 PL - Electronic door bell 230 V AC	2	1	2CLA222400N1302	

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Indicator				
IIM1INDI PL - Indicator	1	20/400	1SYK100001A1153	426

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Thermostat				
N2240.5 PL - Cover plate for digital thermostat	2	1		Upon request

IVIE complete range

IVIE mechanisms - Silver



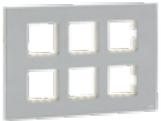
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1SYK100001A1176



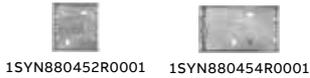
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1SYK100001A1179

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Anthracite plate with frame				
IIP0133 PL - 1M plate	1	15/360	1SYK100001A1171	410
IIP0233 PL - 2M plate	2	15/360	1SYK100001A1172	430
IIPP343 PL - 3M plate power	3	10/240	1SYK100001A1173	490
IIP0343 PL - 3M plate	3	10/240	1SYK100001A1174	508
IIP0453 PL - 4M plate	4	10/190	1SYK100001A1175	636
IIP0683 PL - 6M plate	6	5/120	1SYK100001A1176	918
IIP0893 PL - 8M plate	8	5/120	1SYK100001A1177	1,060
IIP0855 PL - 8M plate square	8	5/95	1SYK100001A1178	1,150
IIP1286 PL - 12M plate	12	5/95	1SYK100001A1179	1,540
IIP1888 PL - 18M plate	18	5/40	1SYK100001A1180	2,170

Metal flush boxes



1SYN880452R0001 1SYN880454R0001



1SYN880464R0001



1SYN880465R0001



1SYN880462R0001

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P.(₹)
Flush boxes				
Metal Box 1-2M - CMBZ3302	1/2	108	1SYN880452R0001	105
Metal Box 3M - CMBZ4303	3	82	1SYN880453R0001	115
Metal Box 4-5M - CMBZ5305	4	60	1SYN880454R0001	140
Metal Box 6M - CMBZ8306	6	40	1SYN880463R0001	245
Metal Box 8M - CMBZ9308	8	39	1SYN880464R0001	339
Metal Box 8MV - CMBZ5508V	8	26	1SYN880456R0001	316
Metal Box 12M - CMBZ8612	12	16	1SYN880465R0001	363
Metal Box 18M - CMBZ8824	18	10	1SYN880462R0001	566

Wiring accessories

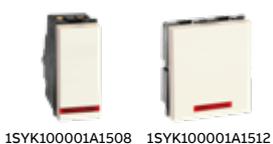
ABB Tvisha **NEW**

Switch on simplicity

ABB Tvisha is a range of wiring accessories with simple flat surface design that creates a trend on the wall with its elegant Euro white finish. The range covers a large variety of functionalities that caters to most of the applications beyond the normal switching functions like USB chargers, HDMI ports, communication sockets, foot lamps and dimmers. ABB Tvisha is ideal for residential and commercial requirements.



- Plastic parts which holds current carrying parts are made of PA6 20% glass filled rating upto 16A
- All switches are marked with IS 3854:1997
- Terminals are designed in such a way that wire is tightened without damage
- Bi-metal silver contact tips for less spark and longer life
- 6A & 6/16A marked with IS 1293, up to 16A
- Non-flammable thermoplastic resin parts and a very high insulating resistance after humidity test



Switches

Item description	Module size	Pack unit (PC)	Ordering code	Unit M.R.P. (₹) per PC
ITS10610 BL 6A 1 way switch	1 M	20	15YK100001A1501	110
ITS1061L BL 6A 1 way switch with Ind.	1 M	20	15YK100001A1502	155
ITS10620 BL 6A 2 way switch	1 M	20	15YK100001A1503	145
ITS106B0 BL 6A Bell switch	1 M	20	15YK100001A1504	150
ITS106BL BL 6A Bell switch with Ind.	1 M	20	15YK100001A1505	210
ITS11610 BL 16A 1 way switch	1 M	20	15YK100001A1506	165
ITS1161L BL 16A 1 way switch with Ind.	1 M	20	15YK100001A1507	200
ITS1201L BL 20A DP Switch 1 way with Ind.	1 M	20	15YK100001A1508	450
ITS206BL BL 6A Bell Mega switch with Ind.	2 M	10	15YK100001A1509	270
ITS2062L BL 6A 2 way Mega switch with Ind.	2 M	10	15YK100001A1510	310
ITS2162L BL 16A 2 way Mega switch with Ind.	2 M	10	15YK100001A1511	325
ITS2321L BL 32A 1 Way DP Mega switch with Ind.	2 M	10	15YK100001A1512	455

Sockets

Item description	Module size	Pack unit (PC)	Ordering code	Unit M.R.P. (₹) per PC
ITK20006 BL 6A 2+3 Pin socket	2 M	10	15YK100001A1521	150
ITK20613 BL 6/13A Universal socket	2 M	10	15YK100001A1522	255
ITK20616 BL 6/16A Socket	2 M	10	15YK100001A1523	265
ITK20620 BL 6/20A Socket	2 M	10	15YK100001A1524	290
ITK20625 BL 6/25A Socket	2 M	10	15YK100001A1525	355
ITK10006 BL 6A 2 Pin socket	1 M	20	15YK100001A1526	245

Price list

Switches, sockets, plates and accessories



1SYK100001A1542 1SYK100001A1543



1SYK100001A1544 1SYK100001A1545



1SYK100001A1554 1SYK100001A1546



1SYK100001A1552 1SYK100001A1553

Support accessories

Item description	Module size	Pack unit (PC)	Ordering code	Unit M.R.P. (₹) per PC
ITM1BLNK BL Blank plate	1 M	20	1SYK100001A1541	32
ITM2FR05 BL Fan regulator 5 step	2 M	5	1SYK100001A1542	590
ITM1FR04 BL Fan regulator 4 step	1 M	10	1SYK100001A1543	440
ITM1RJ11 BL RJ 11TEL 2 Pin	1 M	20	1SYK100001A1544	135
ITM1RJ45 BL RJ 45 Jack CAT 6	1 M	20	1SYK100001A1545	510
ITM1TVSK BL TV socket	1 M	20	1SYK100001A1546	140
ITM1FLEX BL Flex outlet	1 M	20	1SYK100001A1547	125
ITM2LDFL BL LED foot lamp	2 M	10	1SYK100001A1550	438
ITM1INDI BL Indicator	2 M	5	1SYK100001A1551	240
ITM1USBC BL USB Charger 1A	1 M	5	1SYK100001A1552	920
ITM2USBC BL USB charger 2A	2 M	10	1SYK100001A1553	1,750
ITM1HDMI BL HDMI Port 2.0	1 M	20	1SYK100001A1554	1,250
ITM1D400 BL Dimmer 400W	1 M	20	1SYK100001A1548	635
ITM2D1000 BL Dimmer 1000W	1 M	20	1SYK100001A1549	800



1SYK100001A1571 1SYK100001A1572



1SYK100001A1573 1SYK100001A1574



1SYK100001A1580

Plates

Item description	Module size	Pack unit (PC)	Ordering code	Unit M.R.P. (₹) per PC
ITP0133 BL 1 M Plate	1 M	15	1SYK100001A1571	92
ITP0233 BL 2 M Plate	2 M	15	1SYK100001A1572	92
ITPP343 BL 3 M Plate power	3 M	10	1SYK100001A1573	120
ITP0453 BL 4 M Plate	4 M	10	1SYK100001A1574	130
ITP0683 BL 6 M Plate	6 M	5	1SYK100001A1575	230
ITP0893 BL 8 M Plate	8 M	5	1SYK100001A1576	235
ITP0855 BL 8 M Plate square	8 M	5	1SYK100001A1577	335
ITP1286 BL 12 M Plate	12 M	5	1SYK100001A1578	395
ITP1696 BL 16M Plate	16 M	5	1SYK100001A1579	450
ITP1888 BL 18M Plate	18 M	5	1SYK100001A1580	505



1SYN880452R0001 1SYN880454R0001



1SYN880464R0001



1SYN880465R0001 1SYN880462R0001

Metal flush boxes

Type reference and description	Number of modules	Pack	Ordering code	Unit M.R.P. (₹)
Flush boxes				
Metal Box 1-2M - CMBZ3302	1/2	108	1SYN880452R0001	105
Metal Box 3M - CMBZ4303	3	82	1SYN880453R0001	115
Metal Box 4-5M - CMBZ5305	4	60	1SYN880454R0001	140
Metal Box 6M - CMBZ8306	6	40	1SYN880463R0001	245
Metal Box 8M - CMBZ9308	8	39	1SYN880464R0001	339
Metal Box 8MV - CMBZ5508V	8	26	1SYN880456R0001	316
Metal Box 12M - CMBZ8612	12	16	1SYN880465R0001	363
Metal Box 16M - CMBZ9616	12	15	1SYN880466R0001	470
Metal Box 18M - CMBZ8824	18	10	1SYN880462R0001	566

Wiring accessories

Cheiron

Where all good things come together

The Cheiron series combines high quality thermoplastic resin with a unique design that adds quality and style to any building. Cheiron is now available in two different mounting plates to match the mood of any interior.



Contour



Oval

Switch modules

Description	Module size	Qty/Pack	Ordering code	Unit M.R.P. (₹) per pc
6A 1 way switch - CHSW0610	1M	20	1SYN880501R0001 ■	162
6A 2 way switch - CHSW0620	1M	20	1SYN880501R0002 ■	197
6A Bell push - CHSW06B0	1M	20	1SYN880501R0003 ■	221
6A 1 way switch with LED - CHSW061L	1M	20	1SYN880501R0004 ■	212
6A Bell push with LED - CHSW06BL	1M	20	1SYN880501R0006 ■	281
16A 1 way switch - CHSW1610	1M	20	1SYN880501R0007 ■	245
16A 2 way switch - CHSW1620	1M	20	1SYN880501R0008 ■	283
16A 1 way switch with LED - CHSW161L	1M	20	1SYN880501R0009 ■	268
6A 1 way Mega switch with LED - CHSW061M	2M	10	1SYN880501R0011 ■	330
6A 2 way Mega switch with LED - CHSW062M	2M	10	1SYN880501R0012 ■	358
6A Mega Bell push with LED - CHSW06BM	2M	10	1SYN880501R0013 ■	364
16A 1 way Mega switch with LED - CHSW161M	2M	10	1SYN880501R0014 ■	379
16A 2 way Mega switch with LED - CHSW162M	2M	10	1SYN880501R0015 ■	366
32A 1 way DP switch with LED - CHSW321M	2M	10	1SYN880507R0001 ■	617
32A 2 way DP switch with LED - CHSW322M	2M	10	1SYN880507R0002 ■	569

Socket modules

Description	Module size	Qty/Pack	Ordering code	Unit M.R.P.(₹)
6A, 2+3 pin socket + FLAT - CHSK0652	2M	15	1SYN880511R0001 ■	270
16A, 3 pin socket - CHSK1633	3M	10	1SYN880510R0003 ■	377
6/16A socket - CHSK1662	2M	15	1SYN880510R0002 ■	374
20A socket - CHSK2062	2M	15	1SYN880510R0004 ■	362
6/16A socket - CHSK1663	3M	10	1SYN880510R0001 ■	337
25A, 3 pin socket - CHSK2533	3m	10	1SYN880510R0005 ■	406
6A, 2 pin socket - CHSK0621	1m	20	1SYN880767R0001 ■	226
13A Universal socket - CHSK13U2	2M	15	1SYN880557R0001 ■	329

Support modules

Description	Module size	Qty/Pack	Ordering code	Unit M.R.P. (₹)
Step fan regulator - CHSMSFR1	1M	20	1SYN880546R0001 ■	577
Step fan regulator - CHSMSFR2	2M	10	1SYN880550R0001 ■	754
Dimmer 100 W - CHSMD100	1M	20	1SYN880546R0002	520
Dimmer 400 W - CHSMD400	2M	10	1SYN880554R0001	836
Dimmer 650 W - CHSMD650	2M	10	1SYN880554R0002	1,007
Buzzer - CHSMBUZ1	1M	20	1SYN880546R0003	358
Buzzer - CHSMBUZ2	2M	10	1SYN880556R0001	382
Blank plate - CHSMBLNK	1M	40	1SYN880515R0001 ■	44
TV co-axial socket - CHSMTVSK	1M	20	1SYN880530R0001 ■	175
RJ11 Tel. jack 2 pin - CHSMRJ11	1M	20	1SYN880478R0001 ■	173
RJ45 Jack cat 6 - CHSMRJ45	1M	20	1SYN880565R0001 ■	786
Indicator - CHSMINDI	1M	20	1SYN880540R0001	340

■ Stock items

Wiring accessories

Cheiron



Oval

Mounting plates

Oval	Qty/Pack	Ordering code	Unit M.R.P.(₹)
1M Plate - CHPL01P	20	1SYN880580R0002 ■	125
2M Plate - CHPL02P	20	1SYN880581R0002 ■	125
3M Plate - CHPL03P	20	1SYN880583R0002 ■	143
3M Power Plate - CHPL03SP	20	1SYN880585R0002 ■	134
4M Plate - CHPL04P	10	1SYN880587R0002 ■	171
6M Plate - CHPL06P	10	1SYN880589R0002 ■	265
8M Plate - CHPL08P	10	1SYN880591R0002 ■	310
9M Plate - CHPL09P	10	1SYN880593R0001 ■	404
8MV Plate - CHPL08VP	5	1SYN880595R0002 ■	363
12M Plate - CHPL12P	5	1SYN880597R0002 ■	441
16M Plate - CHPL16P	5	1SYN880599R0002 ■	548
18M Plate - CHPL18P	5	1SYN880617R0001 ■	600



Contour

Contour	Qty/Pack	Ordering code	Unit M.R.P.(₹)
1M Plate - CHPL01C	20	1SYN880580R0003 ■	138
2M Plate - CHPL02C	20	1SYN880581R0003 ■	145
3M Plate - CHPL03C	20	1SYN880583R0003 ■	161
3M Power Plate - HPL03SC	20	1SYN880585R0003 ■	153
4M Plate - CHPL04C	10	1SYN880587R0003 ■	183
6M Plate - CHPL06C	10	1SYN880589R0003 ■	286
8M Plate - CHPL08C	10	1SYN880591R0003 ■	333
9M Plate - CHPL09C	10	1SYN880593R0003 ■	439
8MV Plate - CHPL08VC	5	1SYN880595R0003 ■	380
12M Plate - CHPL12C	5	1SYN880597R0003 ■	501
16M Plate - CHPL16C	5	1SYN880599R0003 ■	568
18M Plate - CHPL18C	5	1SYN880617R0003 ■	640

Metal flush boxes

Description	Qty/Pack	Ordering code	Unit M.R.P.(₹)
Metal Box 1-2M - CMBZ3302	108	1SYN880452R0001 ■	105
Metal Box 3M - CMBZ4303	82	1SYN880453R0001 ■	115
Metal Box 4-5M - CMBZ5305	60	1SYN880454R0001 ■	140
Metal Box 6-8MH - CMBZ8308	40	1SYN880455R0001 ■	245
Metal Box 9M - CMBZ9310	39	1SYN880457R0001 ■	339
Metal Box 8MV - CMBZ5508V	26	1SYN880456R0001 ■	316
Metal Box 12-16M - CMBZ8616	16	1SYN880458R0001 ■	363
Metal Box 18M - CMBZ8824	10	1SYN880462R0001	566

■ Stock items

Wiring accessories

Snieo

Classic ideas never go out of style

Snieo combines modern design with high-performance materials such as premium thermoplastic resin. Our switches are made of fire retardant substances with superior electrical properties. Chamfered edges prevent dust accumulation and well crafted sockets provide an enduring grip for a variety of plugs.



Switch modules

Description	Module size	Qty/Pack	Ordering code	Unit M.R.P.(₹)
6A 1 way switch - CPW10610	1	25	1SYN880676R0001 ■	100
6A 2 way switch - CPW10620	1	25	1SYN880677R0001 ■	132
6A Bell Push - CPW106B0	1	25	1SYN880676R0002 ■	139
6A 1 way switch LED - CPW1061L	1	25	1SYN880676R0003 ■	139
6A Bell Push LED - CPW106BL	1	25	1SYN880676R0004 ■	198
16A 1 way switch - CPW11610	1	25	1SYN880676R0005 ■	146
16A 2 way switch - CPW11620	1	25	1SYN880677R0002 ■	204
16A 1 way switch with LED - CPW1161L	1	25	1SYN880676R0006 ■	186
20A DP Switch 1 way with LED - CPW1201L	1	20	1SYN880670R0001 ■	295
6A 1 way Mega switch with LED - CPW2061L	2	10	1SYN880652R0001 ■	235
6A 2 way Mega switch with LED - CPW2062L	2	10	1SYN880652R0002 ■	296
6A Mega Bell Push with LED - CPW206BL	2	10	1SYN880652R0003 ■	266
16A 1 way Mega switch with LED - CPW2161L	2	10	1SYN880653R0001 ■	263
16A 2 way Mega switch with LED - CPW2162L	2	10	1SYN880653R0002 ■	320
32A 1 way DP Switch with LED - CPW2321DPL	2	10	1SYN880655R0001 ■	370

Socket modules

Description	Module size	Qty/Pack	Ordering code	Unit M.R.P.(₹)
6A 2+3 Pin Socket - 2 Module - CPWS2065	2	20	1SYN880690R0001 ■	157
6/16A Socket - 2 Module - CPWS2166	2	10	1SYN880393R0001 ■	219
20A Socket - CPWS2020	2	10	1SYN880394R0001 ■	224
13A Intel Socket - 2 Module - CPWS213U	2	10	1SYN880381R0001 ■	230
6/16A Socket - CPWS3166	3	5	1SYN880122R0001 ■	230
25A 3 Pin Socket - CPWS3253	3	10	1SYN880138R0002 ■	231
6A 2 Pin Socket - CPWS1062	1	20	1SYN880089R0001 ■	148

Support modules

Description	Module size	Qty/Pack	Ordering code	Unit M.R.P.(₹)
Fan Regulator - 1 Module - CPW1SFR4	1	20	1SYN880373R0001	340
Fan Regulator - CPW2SFR5	2	10	1SYN880284R0001 ■	498
Dimmer 100W - 1 Module - CPW1D0400	1	20	1SYN880373R0011 ■	413
Dimmer 400W - CPW2D0400	2	10	1SYN880400R0001	618
Dimmer 1000W - CPW1D1000	2	20	1SYN880500R0001	720
Blank Plate - CPW1BLNK	1	80	1SYN880182R0001 ■	30
TV Socket - CPW1TVSK	1	20	1SYN880175R0001 ■	108
RJ 11TEL 2 Pin - CPW1RJ11	1	20	1SYN880192R0001 ■	102
RJ 45 Jack CAT 6 - CPW1RJ45	1	20	1SYN880201R0001 ■	495
Flex Outlet - CPW1FLEX	1	20	1SYN880165R0001	126
Foot Lamp Grid - CPW4FLGD	4	10	1SYN880671R0001	232
Buzzer - CPW2BZR	2	10	1SYN880490R0001	234
Indicator - CPW1IND	1	20	1SYN880412R0004	220

■ Stock items

Wiring accessories

Snieo

Hospitality products

Description	Ordering code	Unit M.R.P.(₹)
Mechanical Keytag fitted with Lumina Plate & 20A DP Switch (3M) - CPW320MKT	1SYN880669R0001	824
DND/MMR Set - External - CPWDNDSET	1SYN880412R0005	708
Switch Ste DND/MMR - Internal - CPW2SET	1SYN880414R0001	461
Room Occupied - Internal - CPW1OQP	1SYN880412R0003	312
USB Charger 1Module 1000mA - 1 CPW1USBC	1SYN880417R0001	860
Charger 2Module 2000mA - 2 CPW2USBC	1SYN880418R0001	1,540

Snieo mounting plates

Description	Metal box size	Qty/Pack	Ordering code	Unit M.R.P.(₹)
1 M Plate - SNWP3301	3"x3"	25	1SYN880421R0001 ■	75
2 M Plate - SNWP3302	3"x3"	25	1SYN880422R0001 ■	75
3 M Plate - SNWP4303	4"x3"	20	1SYN880423R0001 ■	97
3 M Power Plate - SNWP4303S	4"x3"	20	1SYN880424R0001 ■	89
4 M Plate - SNWP5304	5"x3"	15	1SYN880425R0001 ■	110
5 M Plate - SNWP5305	5"x3"	15	1SYN880426R0001 ■	122
6 M Plate - SNWP8306	8"x3"	10	1SYN880427R0001 ■	155
8 M Plate - SNWP8308	8"x3"	10	1SYN880428R0001 ■	207
9 M Plate - SNWP9310	9"x3"	15	1SYN880429R0001 ■	230
8 M Plate Square - SNWP5508	5"x5"	6	1SYN880430R0001 ■	206
12 M Plate - SNWP8612	8"x6"	6	1SYN880431R0001 ■	262
16 M Plate - SNWP8616	8"x6"	6	1SYN880432R0001 ■	323

Metal flush boxes

Description	Metal box size	Qty/Pack	Ordering code	Unit M.R.P.(₹)
Metal Box 1-2M - CMBZ3302	3"x3"	108	1SYN880452R0001 ■	105
Metal Box 3M - CMBZ4303	4"x3"	82	1SYN880453R0001 ■	115
Metal Box 4-5M - CMBZ5305	5"x3"	60	1SYN880454R0001 ■	140
Metal Box 6-8MH - CMBZ8308	8"x3"	40	1SYN880455R0001 ■	245
Metal Box 9-10M - CMBZ9310	9"x3"	39	1SYN880457R0001 ■	339
Metal Box 8MV - CMBZ5508V	5"x5"	26	1SYN880456R0001 ■	316
Metal Box 12-16M - CMBZ8616	8"x6"	16	1SYN880458R0001 ■	363

Surface boxes

Description	Length	Height	Depth	Qty/Pack	Ordering code	Unit M.R.P.(₹)
Surface box 1-2M- SNBW3302	86.7	86.7	49.3	60	1SYN880351R0001	98
Surface box 3M- SNBW4303	115.0	87.00	50.8	45	1SYN880352R0001	130
Surface box 6-8M- SNBW8308	220.3	85.90	50.5	20	1SYN880354R0001	190

Snieo



■ Stock items

Busch-Presence detectors

Energy saving the easy way

Presence detectors automatically detect the presence of someone inside the room. Their precision is far superior to that of conventional movement detectors. Not only lighting systems but heating systems and air-conditioning systems can be controlled intelligently and efficiently with presence detectors. Empty rooms in which the lights are on and the air-conditioning runs at full power are now history. There is one presence detector for each need.



Office single



Office open plan /
with or without windows



Gym
Sport facilities



Toilets



6818 U-500

Description	Type	Ordering code	Unit M.R.P.(₹)
Busch-Watchdog Presence tech BasicLINE mini - 6 Metres For switching lighting systems that depend on brightness and movement. Ceiling installation using integrated spring bracket. Switch-off delay: approx. 1 sec - 15 min or short-time pulse adjustable.	6811 EB-500	2CKA006800A2517	4,422
Busch-Watchdog Presence tech BasicLINE - 8 Metres. For switching lighting systems that depend on brightness and movement. For semiautomatic and fully automatic operation. Ceiling installation using integrated spring bracket. Switch-off delay: approx. 5 sec - 30 min or short-timepulse adjustable.	6814 U-500	2CKA006800A2518	3,834
Busch-Watchdog Presence tech BasicLINE Corridor - 24 Metres. For switching lighting systems that depend on brightness and movement. Ceiling installation using included dust protection socket. Switch-off delay: approx. 10 sec - 30 min or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Use outdoors possible due to combination with surfacemounted housing 6888.	6818 U-500	2CKA006800A2519	8,848
Surface-mounting box -6818U For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U-500. For surface mounting and increase of the protection type. Protection class (Device): IP 54	6888	2CKA006899A2305	1,530

Busch-Presence detectors

Energy saving the easy way



6817/32-24-500

Description	Type	Ordering code	Unit M.R.P.(₹)
Presence Comp. e-contact - 8 Metres Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 6,5 m, walking persons: up to Ø 8 m. Ceiling installation using integrated spring bracket. Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm.	6817/62-24-500	2CKA006800A2737	11,678
Presence Uni. e-contact - 12 Metres Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Ceiling installation using integrated spring bracket. Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm.	6817/32-24-500	2CKA006800A2739	14,290
Presence Uni. Bluetooth e-contact - 12 Metres Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 3 m): circular: Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Ceiling installation using integrated spring bracket. Switch-off delay: approx. 1 min - 30 min or short-time pulse adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm.	6817/33-24-500	2CKA006800A2743	15,804



6819/51-24-500

Description	Type	Ordering code	Unit M.R.P.(₹)
Presence Comp. rel - 8 Meters Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With power relays for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 6.5 m, walking persons: up to Ø 8 m.	6819/60-24-500	2CKA006800A2733	11,161
Presence Uni. Rel - 12 Meters Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With power relays for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.	6819/30-24-500	2CKA006800A2735	13,610
Presence Uni. rel. Bluetooth - 12 Metres Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With power relays for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.	6819/31-24-500	2CKA006800A2741	15,071
Presence Corr. rel. Bluetooth - 20 Metres Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With power relays for LED operation. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 30 m x 3 m, frontal 20 m x 3 m. Extension of the detection range by means of master/slave combination. Mounting height 27 mm.	6819/51-24-500	2CKA006800A2745	19,887
Presence Uni. DALI Bluethoth -12 Metres Master presence detector with mixed light measurement. For regulating and switching of DALI operating devices that depend on brightness and movement. Suitable for up to 45 DALI operating devices. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m.	6819/35-24-500	2CKA006800A2747	19,206

Busch-Presence detectors

Energy saving the easy way



6819/50-24-500



6819/39-24-500



2069/21



2069/11-84

Description	Type	Ordering code	Unit M.R.P.(₹)
Presence Corr. DALI Bluetooth - 30 Metres Master presence detector with mixed light measurement. For regulating and switching of DALI operating devices that depend on brightness and movement. . Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 30 m x 3 m, frontal 20 m x 3 m.	6819/55-24-500	2CKA006800A2749	25,930
Presence Comp. Slave - 8 Metres Slave presence detector for extension of the detection range of master presence detectors. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 6.5 m, walking persons: up to Ø 8 m. Visible height 23 mm.	6819/68-24-500	2CKA006800A2751	8,927
Presence Uni. Slave - 8 Metres Slave presence detector for extension of the detection range of master presence detectors. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Visible height 23 mm.	6819/38-24-500	2CKA006800A2753	10,888
Presence Corr. Slave - 30 Metres Slave presence detector for extension of the detection range of master presence detectors. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m.	6819/58-24-500	2CKA006800A2755	14,700
Presence Uni. DALI Slave - 12 Metres DALI slave presence detector for extension of the detection range of DALI master presence detectors. For the supply of operating voltage via the DALI master. Power consumption on the DALI bus: max. 10 mA, corresponds to approx. 5 DALI operating devices. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Visible height 23 mm.	6819/39-24-500	2CKA006800A2759	14,156
Presence Corr. DALI Slave - 30 Metres DALI slave presence detector for extension of the detection range of DALI master presence detectors. For the supply of operating voltage via the DALI master. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m. Mounting height 27 mm.	6819/59-24-500	2CKA006800A2761	14,700
Presence Corr. Rel - 30 Metres Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With power relays for LED operation. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable.	6819/50-24-500	2CKA006800A2797	18,375
IceLight set ceiling module, Busch-iceLight Consisting of LED/FM insert, power module (neutral white) 2067/12 U. Consisting of ceiling module, one light direction 2068/21. For ambient lightning. Light outlet downward. Not dimmable. Light intensity can be switched between 100% and 25% using front service switch. Colour temperature: 4,000 K (neutral white) System power consumption: 5 W Rated voltage: 230 V~, + 10% / - 10% Current consumption of LED: 350 mA (secondary) Secondary: SELV	2069/21	2CKA001510A0018	21,840
IceLight Night light set, studio white, Busch-iceLight Complete set consists flush-mounted LED insert Night light (cold white) 2067/14 U. Wall module with one lighting direction, design future® linear 2068/11-84. Cover frame design future® linear 1721-184K. With one lighting direction. Not dimmable. For low brightness (night light). Colour temperature 6,500 K (cold white) System power consumption: 0.15 W Rated voltage: 230 V~, + 10% / - 10% Current consumption of LED: 40 mA (secondary) Secondary: SELV	2069/11-84	2CKA001510A0015	10,395

G Kit

G Range door entry system

The ABB G Kit is the 4-wire system used in the villa segment, it is DIY design which is convenient for installation. Intercom is available between indoor stations. The system's maximum capacity is two outdoor stations and four indoor stations. The user can monitor two entries by turns, which will help better understand the outside circumstance.



Description	Type	Ordering code	Unit M.R.P.(₹)
Kit includes 1 pc GF5S70-C color outdoor station+ 1 pc GF3110(7" TFT) acrylic color indoor station(grey color)+ 1 pc PS-4WD power supply(British standard plug/socket type)	GFS7V11-SD	2TMA040140N0019	25,530



Wiring accessories

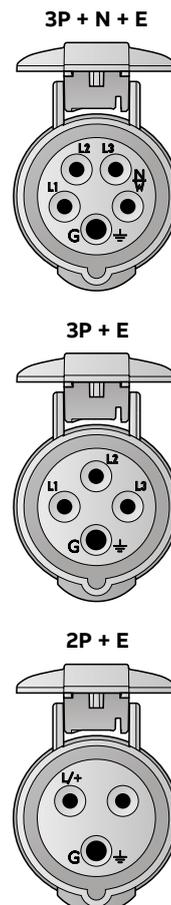
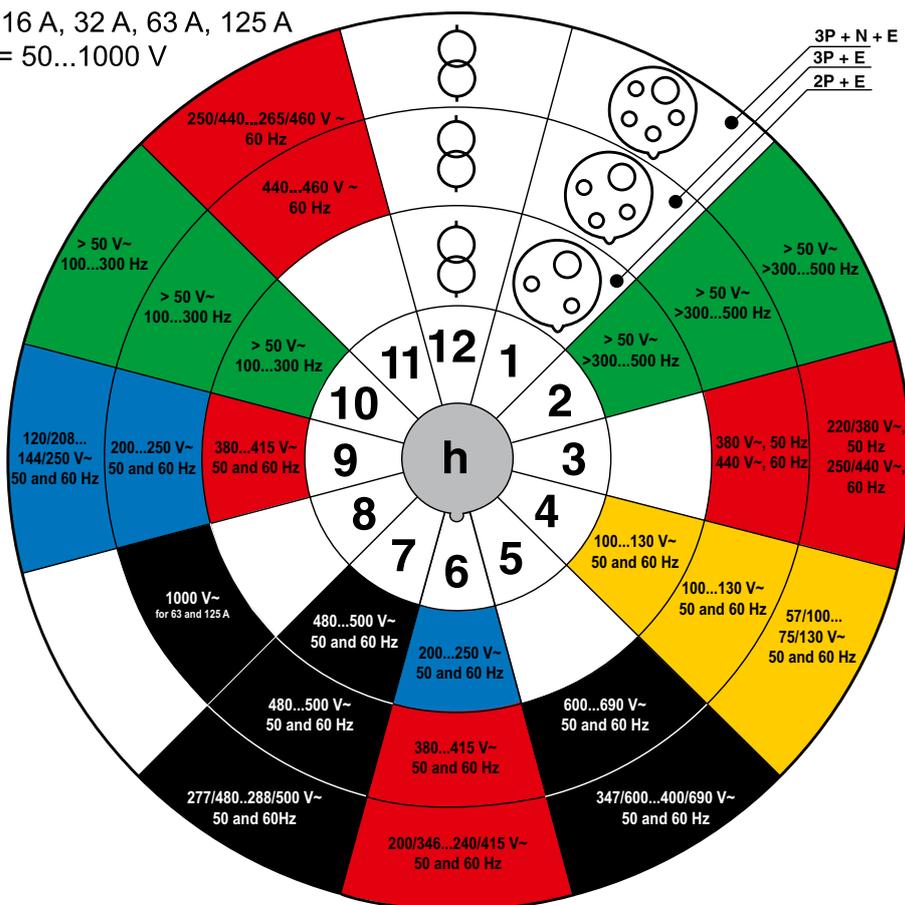
Industrial plugs and sockets

Reliable, durable and safe. Perfect for your application

These products are used for connection of equipment in all kind of applications where it needs to be possible to connect and disconnect. ABB industrial plugs and sockets are chosen when safety, reliability and durability is requested.

IEC 60309-2 "clock"

$I_e = 16 \text{ A}, 32 \text{ A}, 63 \text{ A}, 125 \text{ A}$
 $U_e = 50 \dots 1000 \text{ V}$



Standard voltages - Color codes according to IEC60309-1, -2

Position of earthing sleeve according to IEC 60309-2 (clock)	2P+E	3P+E	3P+N+E
1	<input type="checkbox"/> Optional voltage (not stated below)	<input type="checkbox"/> Optional voltage (not stated below)	<input type="checkbox"/> Optional voltage (not stated below)
2	<input checked="" type="checkbox"/> >300...500 V~ >50 Hz	<input checked="" type="checkbox"/> >300...500 V~ >50 Hz	<input checked="" type="checkbox"/> >300...500 V~ >50 Hz
3	<input type="checkbox"/> Not used	<input checked="" type="checkbox"/> 380 V~ 50 Hz, 440 V 60 Hz	<input checked="" type="checkbox"/> 220/380 V~ 50 Hz, 250/440 V 60 Hz
4	<input checked="" type="checkbox"/> 100...130 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 100...130 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 57/100...75/130 V~ 50 and 60 Hz
5	<input type="checkbox"/> Not used	<input checked="" type="checkbox"/> 600...690 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 347/600...400/690 V~ 50 and 60 Hz
6	<input checked="" type="checkbox"/> 200...250 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 380...415 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 200/346...240/415 V~ 50 and 60 Hz
7	<input checked="" type="checkbox"/> 480...500 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 480...500 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 277/480...288/500 V~ 50 and 60 Hz
8	<input type="checkbox"/> Not used	<input checked="" type="checkbox"/> 1000 V~ (for 63 A and 125 A)	<input type="checkbox"/> Not used
9	<input checked="" type="checkbox"/> 380...415 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 200...250 V~ 50 and 60 Hz	<input checked="" type="checkbox"/> 120/208...144/250 V~ 50 and 60 Hz
10	<input checked="" type="checkbox"/> 100...300 V~ >50 Hz	<input checked="" type="checkbox"/> 100...300 V~ >50 Hz	<input checked="" type="checkbox"/> 100...300 V~ >50 Hz
11	Mainly for marine installations <input type="checkbox"/> Not used	<input checked="" type="checkbox"/> 440...460 V~ 60 Hz	<input checked="" type="checkbox"/> 250/440...265/460 V~ 60 Hz
12	Supply from isolating transformer <input type="checkbox"/> Supply from isolating transformer	<input type="checkbox"/> Supply from isolating transformer	<input type="checkbox"/> Supply from isolating transformer

Wiring accessories

Industrial plugs and sockets

Plugs



IP44 (2P+E)



IP44 (3P+E)



IP67 (3P+N+E)

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP44	Blue	200...250	16	216-P6-I	2CMA100202R1000	405
		Blue	200...250	32	232-P6-I	2CMA100204R1000	580
		Blue	200...250	63	263P6	2CMA166742R1000	2,620
	IP67	Blue	200...250	16	216P6W	2CMA166460R1000	1,390
		Blue	200...250	32	232P6W	2CMA166722R1000	1,720
		Blue	200...250	63	263P6W	2CMA166776R1000	3,970
		Blue	200...250	125	2125P6W	2CMA166810R1000	10,810
4 (3P+E)	IP44	Red	380...415	16	316-P6	2CMA193506R1000	600
		Red	380...415	32	332-P6	2CMA193515R1000	740
		Red	380...415	63	363P6	2CMA166752R1000	2,930
	IP67	Red	380...415	16	316P6W	2CMA166476R1000	1,500
		Red	380...415	32	332P6W	2CMA166738R1000	1,955
		Red	380...415	63	363P6W	2CMA166786R1000	4,200
		Red	380...415	125	3125P6W	2CMA166816R1000	11,200
5 (3P+N+E)	IP44	Red	346...415	16	416-P6-I	2CMA100203R1000	630
		Red	346...415	32	432-P6-I	2CMA100205R1000	760
		Red	346...415	63	463P6	2CMA166764R1000	3,150
	IP67	Red	346...415	16	416P6W	2CMA166494R1000	1,455
		Red	346...415	32	432P6W	2CMA166524R1000	2,165
		Red	346...415	63	463P6W	2CMA166798R1000	4,250
		Red	346...415	125	4125P6W	2CMA166828R1000	11,250

Connectors



IP44 (2P+E)



IP67 (3P+E)



IP67 (3P+N+E)

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP44	Blue	200...250	16	216-C6-I	2CMA100206R1000	670
		Blue	200...250	32	232-C6-I	2CMA100208R1000	815
		Blue	200...250	63	263C6	2CMA166840R1000	3,385
	IP67	Blue	200...250	16	216C6W	2CMA166538R1000	1,630
		Blue	200...250	32	232C6W	2CMA166584R1000	2,080
		Blue	200...250	63	263C6W	2CMA166874R1000	4,555
		Blue	200...250	125	2125C6W	2CMA166918R1000	11,670
4 (3P+E)	IP44	Red	380...415	16	316-C6	2CMA193523R1000	760
		Red	380...415	32	332-C6	2CMA193529R1000	1,065
		Red	380...415	63	363C6	2CMA166850R1000	3,500
	IP67	Red	380...415	16	316C6W	2CMA166554R1000	1,940
		Red	380...415	32	332C6W	2CMA166604R1000	2,240
		Red	380...415	63	363C6W	2CMA166894R1000	5,200
		Red	380...415	125	3125C6W	2CMA166924R1000	13,500
5 (3P+N+E)	IP44	Red	346...415	16	416-C6-I	2CMA100207R1000	790
		Red	346...415	32	432-C6-I	2CMA100209R1000	1,100
		Red	346...415	63	463C6	2CMA166862R1000	3,680
	IP67	Red	346...415	16	416C6W	2CMA166572R1000	2,000
		Red	346...415	32	432C6W	2CMA166618R1000	2,575
		Red	346...415	63	463C6W	2CMA166906R1000	5,360
		Red	346...415	125	4125C6W	2CMA166936R1000	14,590

Wiring accessories

Industrial plugs and sockets

Panel mounted socket - Unified angled flange

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP44	Blue	200...250	16	216RAU6-I	2CMA100218R1000	630
		Blue	200...250	32	232RAU6-I	2CMA100220R1000	710
		Blue	200...250	63	263RAU6	2CMA167408R1000	2,810
	IP67	Blue	200...250	16	216RAU6W	2CMA166996R1000	1,320
		Blue	200...250	32	232RAU6W	2CMA166948R1000	1,605
		Blue	200...250	63	263RAU6W	2CMA167442R1000	2,950
4 (3P+E)	IP44	Red	380...415	16	316RAU6	2CMA193226R1000	710
		Red	380...415	32	332RAU6	2CMA193274R1000	930
		Red	380...415	63	363RAU6	2CMA167418R1000	3,085
	IP67	Red	380...415	16	316RAU6W	2CMA167012R1000	1,420
		Red	380...415	32	332RAU6W	2CMA166964R1000	1,850
		Red	380...415	63	363RAU6W	2CMA167452R1000	3,185
5 (3P+N+E)	IP44	Red	346...415	16	416RAU6-I	2CMA100219R1000	760
		Red	346...415	32	432RAU6-I	2CMA100221R1000	950
		Red	346...415	63	463RAU6	2CMA167430R1000	3,125
	IP67	Red	346...415	16	416RAU6W	2CMA167030R1000	1,655
		Red	346...415	32	432RAU6W	2CMA166982R1000	1,960
		Red	346...415	63	463RAU6W	2CMA167464R1000	3,420



Panel mounted sockets - Unified straight flange

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP44	Blue	200...250	16	216RU6-I	2CMA100210R1000	600
		Blue	200...250	32	232RU6-I	2CMA100212R1000	675
		Blue	200...250	63	263RU6	2CMA167510R1000	2,810
	IP67	Blue	200...250	63	263RU6W	2CMA167374R1000	3,685
		Blue	200...250	125	2125RU6W	2CMA167133R1000	11,350
		Red	380...415	16	316RU6	2CMA193178R1000	655
4 (3P+E)	IP44	Red	380...415	32	332RU6	2CMA193250R1000	780
		Red	380...415	63	363RU6	2CMA167520R1000	2,905
		Red	380...415	63	363RU6W	2CMA167384R1000	3,690
	IP67	Red	380...415	125	3125RU6W	2CMA167136R1000	11,480
		Red	346...415	16	416RU6-I	2CMA100211R1000	670
		Red	346...415	32	432RU6-I	2CMA100213R1000	810
5 (3P+N+E)	IP44	Red	346...415	63	463RU6	2CMA167532R1000	3,125
		Red	346...415	63	463RU6W	2CMA167396R1000	3,700
	IP67	Red	346...415	125	4125RU6W	2CMA167142R1000	11,520



Wiring accessories

Industrial plugs and sockets

Surface Sockets Outlet



IP44 (2P+E)



IP67 (2P+E)



IP44 (3P+E)



IP67 (3P+E)



IP44 (3P+N+E)



IP67 (3P+N+E) 125

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP44	Blue	200...250	16	216RS6	2CMA193098R1000	715
		Blue	200...250	32	232RS6	2CMA193122R1000	975
		Blue	200...250	63	263RS6	2CMA167476R1000	3,415
	IP67	Blue	200...250	16	216RS6W	2CMA167149R1000	1,570
		Blue	200...250	32	232RS6W	2CMA167172R1000	2,235
		Blue	200...250	63	263RS6W	2CMA167306R1000	4,695
4 (3P+E)	IP44	Red	380...415	16	316RS6	2CMA193106R1000	765
		Red	380...415	32	332RS6	2CMA193130R1000	1,070
		Red	380...415	63	363RS6	2CMA167498R1000	3,700
	IP67	Red	380...415	16	316RS6W	2CMA167157R1000	1,900
		Red	380...415	32	332RS6W	2CMA167180R1000	2,400
		Red	380...415	63	363RS6W	2CMA167316R1000	4,800
5 (3P+N+E)	IP44	Red	346...415	16	416RS6	2CMA193115R1000	825
		Red	346...415	32	432RS6	2CMA193139R1000	1,100
		Red	346...415	63	463RS6	2CMA167484R1000	3,880
	IP67	Red	346...415	16	416RS6W	2CMA167166R1000	2,035
		Red	346...415	32	432RS6W	2CMA167189R1000	2,650
		Red	346...415	63	463RS6W	2CMA167328R1000	4,940
		Red	346...415	125	4125RS6W	2CMA167264R1000	13,500

Surface socket outlet with protection

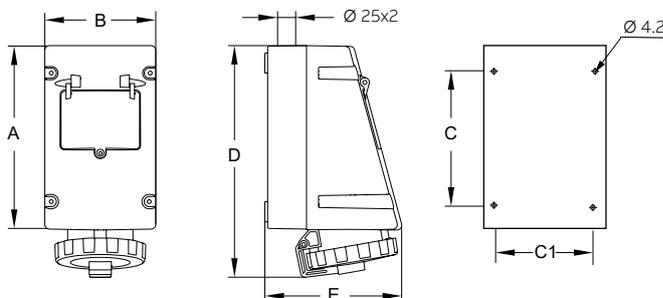
Housing in plastic (PBT). Cable entry with knock-outs 2 x Ø 25 mm.

Cable area 1.5...4 mm². Delivered without MCB/RCD. Space for 4 modules.



IP67 (2P+E)

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP67	Blue	200...250	16	216RP6WP	2CMA164572R1000	7,245
		Blue	200...250	32	232RP6WP	2CMA164602R1000	8,330
5 (4P+E)	IP67	Red	346...415	16	416RP6WP	2CMA164589R1000	8,050
		Red	346...415	32	432RP6WP	2CMA164619R1000	8,500



Type	A	B	C	C1	D	E
216RP...W...416RP...W	199.5	120	170	90	253	149
232RP...W...432RP...W	199.5	120	170	90	253	149

Wiring accessories

Industrial plugs and sockets

Switched interlocked socket outlet - horizontal thermoplastic

Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm/M25. Cable area 1.5...4 mm²



IP44 (2P+E)



IP67 (2P+E)



IP44 (3P+E)



IP67 (3P+E)



IP44 (3P+N+E)



IP67 (3P+N+E)

Terminals / Pole	IP Protection	Color code	Voltage	Current rating (A)	Type	Order code	Unit L.P.(₹)
3 (2P+E)	IP44	Blue	200...250	16	216MHS6	2CMA167623R1000	6,460
		Blue	200...250	32	232MHS6	2CMA167669R1000	7,880
		Blue	200...250	63	263MHS6	2CMA167715R1000	13,705
	IP67	Blue	200...250	16	216MHS6W	2CMA167801R1000	6,460
		Blue	200...250	32	232MHS6W	2CMA167848R1000	8,670
		Blue	200...250	63	263MHS6W	2CMA167894R1000	15,760
4 (3P+E)	IP44	Red	380...415	16	316MHS6	2CMA167631R1000	7,200
		Red	380...415	32	332MHS6	2CMA167677R1000	8,145
		Red	380...415	63	363MHS6	2CMA167721R1000	17,195
	IP67	Red	380...415	16	316MHS6W	2CMA167809R1000	7,790
		Red	380...415	32	332MHS6W	2CMA167856R1000	9,595
		Red	380...415	63	363MHS6W	2CMA167899R1000	18,610
5 (3P+N+E)	IP44	Red	346...415	16	416MHS6	2CMA167640R1000	7,615
		Red	346...415	32	432MHS6	2CMA167686R1000	8,755
		Red	346...415	63	463MHS6	2CMA167727R1000	17,405
	IP67	Red	346...415	16	416MHS6W	2CMA167818R1000	8,375
		Red	346...415	32	432MHS6W	2CMA167865R1000	9,635
		Red	346...415	63	463MHS6W	2CMA167905R1000	18,765

Emax - Low voltage air circuit breakers

- CT (Rogowski coil) range of 400 - 6300A (E1, E2, E3, E4 and E6) with breaking capacity range of 42-150KA
- Configured breakers are now available in E1, E2 and E3 frames
- SACE Emax circuit-breakers and their accessories conform to the international IEC 60947, EN 60947 CEI EN 60947 and IEC 61000 standards and comply with following EC directives "Low Voltage Directive" (LVD) no 73/23 EEC
- "Electromagnetic Compatibility Directive" (EMC) nr. 89/336 EEC
- Complete range of common accessories
- Double insulation
- Same height and depth for the whole range
- Protection releases provide complete set of standard protection function, advanced protection functions, measurement functions
- Optional modules (measurements, signalling, communication, wireless com) to upgrade the protection releases
- Neutral protection from OFF to 200%
- Interchangeability of releases
- Low voltage switch disconnectors upto 6300 amps and automatic circuit breakers upto 5000 amps in 1000V DC

Note : Prices on request



Extremely Simple Installation



Completely re-engineered protection releases



Fully Modular construction

Emax - Low voltage air circuit breakers

Configured breaker		Pole	PR121 LI	PR121 LSIG	PR122 LSIG	
Frame	Rating					
E1 - 50KA -Withdrawable moving part - WMP	800A Manual	3P	1SDA055712R1	1SDA055714R1	1SDA055717R1	
	1000A Manual		1SDA059214R1	1SDA059222R1	1SDA059234R1	
	1250A Manual		1SDA055744R1	1SDA055746R1	1SDA055749R1	
	1600A Manual		1SDA055776R1	1SDA055778R1	1SDA055781R1	
E2 - 65KA -Withdrawable moving part - WMP	2000A Manual		1SDA055936R1	1SDA055938R1	1SDA055941R1	
	E3 - 65KA -Withdrawable moving part - WMP		2500A Manual	1SDA056128R1	1SDA056130R1	1SDA056133R1
3200A Manual			1SDA056160R1	1SDA056162R1	1SDA056165R1	
E4 - 75KA -Withdrawable moving part - WMP	4000A Manual		1SDA056800R1	1SDA056802R1	1SDA056805R1	
E1 - Withdrawable fixed part - WFP - HR-HR	FIXED PART WFP HR-HR		3P	1SDA059666R1 ■		
E2 - Withdrawable fixed part - WFP - HR-HR				1SDA059667R1 ■		
E3 - Withdrawable fixed part - WFP - HR-HR				1SDA059669R1 ■		
E4 - Withdrawable fixed part - WFP - HR-HR		1SDA059670R1 ■				
E1 - 50KA -Withdrawable moving part - WMP	800A Manual	4P	1SDA055720R1	1SDA055722R1	1SDA055725R1	
	1000A Manual		1SDA059216R1	1SDA059224R1	1SDA059236R1	
	1250A Manual		1SDA055752R1	1SDA055754R1	1SDA055757R1	
	1600A Manual		1SDA055784R1	1SDA055786R1	1SDA055789R1	
E2S - 65KA -Withdrawable moving part - WMP	2000A Manual		1SDA055944R1	1SDA055946R1	1SDA055949R1	
E3 - 65KA -Withdrawable moving part - WMP	2500A Manual		1SDA056136R1	1SDA056138R1	1SDA056141R1	
	3200A Manual		1SDA056168R1	1SDA056170R1	1SDA056173R1	
E4 - 75KA -Withdrawable moving part - WMP	4000A Manual		1SDA056808R1	1SDA056810R1	1SDA056813R1	
E1 - Withdrawable fixed oart - WFP - HR-HR	FIXED PART WFP HR-HR		4P	1SDA059762R1 ■		
E2 - Withdrawable fixed part - WFP - HR-HR				1SDA059763R1 ■		
E2S - Withdrawable fixed part - WFP - HR-HR				1SDA059764R1 ■		
E3 - Withdrawable fixed part - WFP - HR-HR				1SDA059765R1 ■		
E4 - Withdrawable fixed part - WFP - HR-HR		1SDA059766R1 ■				

* All the configured breaker will have accessories fitted from the factory

Note:

1. Withdrawable fixed parts (WFP) and withdrawable moving parts (WMP) are to be ordered together for a draw out complete breaker.
2. To convert the breaker from manual operated (MDO or MF) to electrical operated (EDO or EF), order MDO/EDO conversion kit which comprises closing coil, opening coil and motor operator. Suitable operating voltage for the conversion kit has to be mentioned.
3. For other current rating and breaking capacity, ACB requirement, contact our nearest sales office.

Tmax moulded case circuit breakers

Tmax moulded-case circuit-breakers guarantee an extremely high performance level while being progressively smaller in size, simple to install and able to provide increasingly better safety guarantees for the operator. In addition to being ideal for the secondary distribution of alternate and direct current, they feature dedicated solutions for all application requirements.

Moulded-case circuit-breakers can be used in low voltage civil and industrial installations with 1 to 3200 A operating current. The Tmax family includes 9 circuit-breaker sizes in three- or four-pole versions:

- XT1, XT2, XT3 and XT4 up to 250A;
- T4, T5 and T6 up to 1000A;
- T7 and T8 up to 3200A.

The ultimate short-circuit breaking capacity (I_{cu}) at 415V ranges from 18kA to 200kA, or up to 100kA for 690V. The following ranges are available:

- Circuit-breakers for AC and DC power distribution;
- Circuit-breakers for zone selectivity;
- Circuit-breakers for motor protection;
- Circuit-breakers for application up to 1150V AC and 1500V DC
- Switch-disconnectors.

Tmax circuit-breakers can be equipped with thermomagnetic, magnetic only or electronic trip units; all of which are interchangeable. Since assembly instructions are simple, trip units can quickly and easily be replaced; even in the field. All this makes the circuit-breakers very easy to operate with considerable savings due to rationalized stock management.

All Tmax circuit breakers can be enhanced with a vast range of standardized accessories. This convenience not only cuts down on inventory, but creates an extremely flexible and easily managed solution.



Tmax circuit breakers

Type	I _u (40° C) [A]	U _e [V]		Category	Release	I _{cu} (380 - 415 V AC) [kA]									
		AC	DC			16	25	36	50	70	85	100	120	150	200
XT1	160	690	500	A	TMD/TMF MF/MA	B	C	N	S	H					
XT2	160	690	500	A	TMD/TMA MF/MA Ekip LS/I Ekip I Ekip LSI Ekip LIG Ekip LSIG Ekip M-I Ekip M-LIU Ekip M-LRIU Ekip N-LS/I			N	S	H		L	V		
XT3	250	690	500	A	MF/MA TMD TMG			N	S						
XT4	250	690	500	A	TMD/TMA MF/MA Ekip LS/I Ekip I Ekip LSI Ekip LIG Ekip LSIG Ekip E-LSIG Ekip M-LIU Ekip M-LRIU Ekip G-LS/I Ekip N-LS/I			N	S	H		L	V		
T5	400 630	690 1150	750 1000	B (400 A) A (630 A)	TMA (500 A) TMG (500 A) PR221DS PR222DS Ekip M Ekip E-LSIG			N	S	H		L	V		
T6	630 800 1000	690 1150	750 1000	B (630A - 800 A) A (1000 A)	TMA (800 A) PR221DS PR222DS Ekip M			N	S	H		L	V		
T7	800 1000 1250 1600	690		B	PR231/P PR232/P PR331/P PR332/P				S	H		L	V		

Trip Units

Thermal magnetic trip units

- MA - Magnetic only trip unit with adjustable magnetic thresholds for motor protection
- TMF - Fixed thermal and fixed magnetic for power distribution
- TMD - Adjustable thermal (70-100% of I_n) and fixed magnetic (10 x I_n) for power distribution
- TMA - Adjustable thermal (70-100% of I_n) and adjustable magnetic (5-10 of I_n) for power distribution
- TMG - Adjustable thermal (70-100% of I_n) and low fixed magnetic (3 x I_n) for generator protection

Microprocessor based electronic trip units

Ekip LS/I or Ekip LSI	L = 0.40 - 1 of I _n	Ekip LIG	L = 0.40 - 1 of I _n	Ekip LSIG or Ekip E-LSIG	L = 0.4 - 1 of I _n	Ekip M-LIU	L = 0.4 - 1 of I _n	Ekip M-LRIU	L = 0.4 - 1 of I _n
	S = 1 - 10 of I _n		I = 1 - 10 of I _n		S = 0.6 - 10 of I _n		I = 6 - 13 of I _n		R = 3 - 9 of I _n
	I = 1 - 10 of I _n		G = 0.2 - 1 of I _n		I = 1.5 - 12 of I _n		U* = ON or OFF		I = 6 - 13 of I _n
		New			G = 0.2 - 1 of I _n				G = 0.2 - 1 of I _n
PR221	L = 0.40 - 1 of I _n	PR222	L = 0.4 - 1 of I _n	PR231	L = 0.4 - 1 of I _n	PR331	L = 0.4 - 1 of I _n		L = 0.4 - 1 of I _n
	S = 1 - 10 of I _n		S = 0.6 - 10 of I _n		S = 1 - 10 of I _n		S = 0.6 - 10 of I _n		
	I = 1 - 10 of I _n		I = 1.5 - 12 of I _n		I = 1 - 12 of I _n				I = 1.5 - 15 of I _n
			G = 0.2 - 1 of I _n						G = 0.2 - 1 of I _n

L = Overload S = Short circuit I = Instantaneous short circuit G = Earth fault

U = phase loss (U): With selector in ON position, circuit breaker trips if at least one current phase is lower than 0.1xI_n and at least a second one higher than 0.25xI_n;

Ekip N-LS/I : Neutral can be set in the OFF or ON positions, at 100% or at 160% of the phases

Ekip G-LS/I : Neutral, in four-pole circuit-breakers, can be set in the OFF, ON positions at 50% or 100% of the phases;

Note: For detailed information about trip units, refer technical catalogue.

Tmax power distribution circuit breakers

XT1



Breaking capacity at 415VAC

	Icu	Ics (Icu)
B	18kA	100%
C	25kA	100%
N	36kA	100%

TMD			B		C		N	
Frame	In (A)	Poles	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)
XT1 160	16	3	1SDA066799R1	6,410	1SDA080825R1 *	6,890	1SDA080827R1 *	9,290
	20		1SDA066800R1		1SDA080826R1 *		1SDA080828R1 *	
	25		1SDA066801R1		1SDA067391R1		1SDA080829R1	
	32		1SDA066802R1		1SDA067392R1		1SDA067411R1	
	40		1SDA066803R1 ■		1SDA067393R1 ■		1SDA067412R1 ■	
	50		1SDA066804R1 ■		1SDA067394R1 ■		1SDA067413R1 ■	
	63		1SDA066805R1 ■		1SDA067395R1 ■		1SDA067414R1 ■	
	80		1SDA066806R1 ■		1SDA067396R1 ■		1SDA067415R1 ■	
	100		1SDA066807R1 ■		1SDA067397R1 ■		1SDA067416R1 ■	
	125		1SDA066808R1 ■		1SDA067398R1 ■		1SDA067417R1 ■	
	160		1SDA066809R1 ■		1SDA067399R1 ■		1SDA067418R1 ■	
	16		4		1SDA066810R1		8,840	
20	1SDA066811R1	1SDA080841R1 *		1SDA080843R1 *				
25	1SDA066812R1	1SDA067400R1		1SDA080844R1 ■				
32	1SDA066813R1 ■	1SDA067401R1 ■		1SDA067419R1 ■				
40	1SDA066814R1 ■	1SDA067402R1 ■		1SDA067420R1 ■				
50	1SDA066815R1	1SDA067403R1 ■		1SDA067421R1				
63	1SDA066816R1 ■	1SDA067404R1 ■		1SDA067422R1 ■				
80	1SDA066817R1 ■	1SDA067405R1 ■		1SDA067423R1 ■				
100	1SDA066818R1 ■	1SDA067406R1 ■		1SDA067424R1 ■				
125	1SDA066888R1 ■	1SDA067409R1 ■		1SDA067427R1 ■				
160	1SDA066821R1 ■	1SDA067410R1 ■		1SDA067428R1 ■				

*TMF trip unit

■ Stock items

Tmax power distribution circuit breakers

XT1



Breaking capacity at 415VAC

	Icu	Ics (Icu)
S	50kA	75%
H	70kA	50%

TMD / TMF*

Frame	In (A)	Poles	S		H	
			Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)
XT1 160	16	3	1SDA080830R1*	10,210	1SDA080835R1*	12,260
	20		1SDA080831R1*		1SDA080836R1*	
	25		1SDA080832R1		1SDA080837R1	
	32		1SDA080833R1 ■		1SDA080838R1	
	40		1SDA080834R1 ■		1SDA080839R1	
	50		1SDA067431R1		1SDA067449R1	
	63		1SDA067432R1 ■		1SDA067450R1	
	80		1SDA067433R1 ■		1SDA067451R1	
	100		1SDA067434R1 ■		1SDA067452R1	
	125		1SDA067435R1 ■		1SDA067453R1	
	160	1SDA067436R1 ■	1SDA067454R1	20,430		
	16	4	1SDA080845R1*	14,810	1SDA080850R1*	16,850
	20		1SDA080846R1*		1SDA080851R1*	
	25		1SDA080847R1		1SDA080852R1	
	32		1SDA080848R1		1SDA080853R1	
	40		1SDA080849R1		1SDA080854R1	
50	1SDA067439R1		1SDA067457R1			
63	1SDA067440R1 ■	1SDA067458R1				
80	1SDA067441R1	1SDA067459R1				
100	1SDA067442R1 ■	1SDA067460R1				
125	1SDA067445R1 ■	17,360	1SDA067463R1	19,400		
160	1SDA067446R1	19,400	1SDA067464R1	21,450		

*TMF trip unit

XT3

Breaking capacity at 415VAC

	Icu	Ics(Icu)
N	36kA	75%
S	50kA	50%

TMD

Frame	In (A)	Poles	N		S	
			Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)
XT3 250	200	3	1SDA068058R1 ■	16,870	1SDA068220R1 ■	18,620
	250		1SDA068059R1 ■	19,350	1SDA068221R1 ■	22,620
	200	4	1SDA068069R1 ■	21,820	1SDA068231R1 ■	25,200
	250		1SDA068070R1 ■	24,810	1SDA068232R1 ■	26,690

■ Stock items

Tmax power distribution circuit breakers

Protection: TMD/TMA

XT2/XT4/T5/T6



Breaking capacity at 415VAC

	Icu	Ics (Icu)
N	36kA	100%
S	50kA	100%
H	70kA	100%



TMD / TMA*

TMD / TMA*			N		S		H		
Frame	In (A)	Poles	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)	
XT2160	1.6	3	1SDA067000R1	11,850	1SDA067540R1	12,970	1SDA067584R1	17,970	
	2		1SDA067001R1		1SDA067541R1		1SDA067585R1		
	2.5		1SDA067002R1		1SDA067542R1		1SDA067586R1		
	3.2		1SDA067003R1		1SDA067543R1		1SDA067587R1		
	4		1SDA067004R1		1SDA067544R1		1SDA067588R1		
	5		1SDA067005R1		1SDA067545R1		1SDA067589R1		
	6.3		1SDA067006R1		1SDA067546R1		1SDA067590R1		
	8		1SDA067007R1		1SDA067547R1		1SDA067591R1		
	10		1SDA067008R1		1SDA067548R1 ■		1SDA067592R1		
	12.5		1SDA067009R1		1SDA067549R1		1SDA067593R1		
	16		1SDA067010R1 ■		1SDA067550R1 ■		1SDA067594R1		
	20		1SDA067011R1 ■		1SDA067551R1		1SDA067595R1		
	25		1SDA067012R1		1SDA067552R1 ■		1SDA067596R1		
	32		1SDA067013R1 ■		1SDA067553R1 ■		1SDA067597R1		
	40		1SDA067014R1 ■		1SDA067554R1 ■		1SDA067598R1		17,460
	50		1SDA067015R1		1SDA067555R1 ■		1SDA067599R1		
63	1SDA067016R1 ■	1SDA067556R1 ■	1SDA067600R1 ■						
80	1SDA067017R1	1SDA067557R1 ■	1SDA067601R1						
100	1SDA067018R1 ■	1SDA067558R1 ■	1SDA067602R1 ■						
125	1SDA067019R1 ■	13,790	1SDA067559R1 ■	15,940	1SDA067603R1 ■	24,210			
160	1SDA067020R1 ■	16,850	1SDA067560R1 ■	19,710	1SDA067604R1	27,670			
200	1SDA068090R1 ■	20,430	1SDA068310R1 ■	22,980	1SDA068343R1	29,100			
225	1SDA068091R1	22,980	1SDA068311R1	23,480	1SDA068344R1	30,640			
250	1SDA068092R1 ■	23,480	1SDA068312R1 ■	24,610	1SDA068345R1 ■	31,150			
320	1SDA054436R1 ■	29,210	1SDA054440R1 ■	30,890	1SDA054444R1 ■	38,370			
400	1SDA054437R1 ■		1SDA054441R1 ■		1SDA054445R1 ■				
500	1SDA054456R1 ■		35,750		1SDA054461R1 ■		38,840	1SDA054465R1	49,530
630	1SDA060202R1 ■	41,150	1SDA060204R1 ■	42,360	1SDA060206R1	50,450			
800	1SDA060214R1 ■	53,140	1SDA060216R1 ■	55,720	1SDA060218R1 ■	56,890			

* 40 A onwards

■ Stock items

Tmax power distribution circuit breakers

Protection: TMA

XT2/XT4/T5/T6



Breaking capacity at 415VAC

	Icu	Ics (Icu)
N	36kA	100%
S	50kA	100%
H	70kA	100%



TMD / TMA*

TMD / TMA*			N		S		H	
Frame	In (A)	Poles	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)
XT2160	1.6	4	1SDA067021R1	15,730	1SDA067561R1	17,060	1SDA067605R1	21,960
	2		1SDA067022R1		1SDA067562R1		1SDA067606R1	
	2.5		1SDA067023R1		1SDA067563R1		1SDA067607R1	
	3.2		1SDA067024R1		1SDA067564R1		1SDA067608R1	
	4		1SDA067025R1		1SDA067565R1		1SDA067609R1	
	5		1SDA067026R1		1SDA067566R1		1SDA067610R1	
	6.3		1SDA067027R1		1SDA067567R1		1SDA067611R1	
	8		1SDA067028R1		1SDA067568R1		1SDA067612R1	
	10		1SDA067029R1	1SDA067569R1	1SDA067613R1			
	12.5		1SDA067030R1	1SDA067570R1	1SDA067614R1			
	16		1SDA067031R1	1SDA067571R1	1SDA067615R1			
	20		1SDA067032R1	1SDA067572R1	1SDA067616R1			
	25		1SDA067033R1	1SDA067573R1	1SDA067617R1			
	32		1SDA067034R1	1SDA067574R1 ■	1SDA067618R1			
	40		1SDA067035R1	1SDA067575R1	1SDA067619R1			
	50		1SDA067036R1	1SDA067576R1	1SDA067620R1			
63	1SDA067037R1 ■	1SDA067577R1 ■	1SDA067621R1					
80	1SDA067038R1	1SDA067578R1	1SDA067622R1					
100	1SDA067039R1 ■	1SDA067579R1 ■	1SDA067623R1					
125	1SDA067042R1 ■	18,390	1SDA067582R1 ■	20,730	1SDA067626R1	26,550		
160	1SDA067043R1 ■	21,960	1SDA067583R1 ■	24,500	1SDA067627R1	32,470		
XT4 250	200	1SDA068109R1 ■	27,580	1SDA068329R1 ■	31,150	1SDA068362R1	35,740	
	225	1SDA068110R1	28,070	1SDA068330R1	31,660	1SDA068363R1	36,250	
	250	1SDA068111R1 ■	28,590	1SDA068331R1 ■	32,170	1SDA068364R1	37,690	
	320	1SDA054477R1 ■	35,390	1SDA054479R1 ■	37,640	1SDA054481R1	44,530	
400	1SDA054478R1 ■	1SDA054480R1 ■		1SDA054482R1 ■				
T5	500	1SDA054487R1 ■	45,770	1SDA054489R1 ■	50,120	1SDA054491R1 ■	60,140	
	630	1SDA060210R1 ■	49,340	1SDA060211R1 ■	54,380	1SDA060212R1	62,750	
T6	800	1SDA060222R1 ■	60,040	1SDA060223R1 ■	65,790	1SDA060224R1	68,340	

* 40 A onwards

■ Stock items

Tmax power distribution circuit breakers

Protection: LS/I

XT2/XT4/T5/T6



Breaking capacity at 415VAC

	Icu	Ics (Icu)
N	36kA	100%
S	50kA	100%
H	70kA	100%



Protection : LS/I

Frame	In (A)	Poles	N		S		H	
			Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)
XT2 160	10	3	1SDA067054R1	16,640	1SDA067800R1	20,430	1SDA067857R1	23,080
	25		1SDA067055R1		1SDA067801R1		1SDA067858R1	
	63		1SDA067056R1		1SDA067802R1		1SDA067859R1	
	100		1SDA067057R1		1SDA067803R1		1SDA067860R1	
	160		1SDA067058R1		1SDA067804R1		1SDA067861R1	
XT4 250	250		1SDA068126R1	27,780	1SDA068475R1	32,680	1SDA068515R1	37,730
T5 400	400		1SDA054317R1	37,770	1SDA054333R1	39,500	1SDA054349R1	50,120
T5 630	630		1SDA054396R1	40,220	1SDA054404R1	42,000	1SDA054412R1	53,340
T6 800	800		1SDA060268R1	61,790	1SDA060278R1	68,500	1SDA060289R1	85,060
T6 1000*	1000		1SDA060537R1	95,070	1SDA060547R1	1,02,580	1SDA060561R1	1,22,590

Frame	In (A)	Poles	N		S		H	
			Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)
XT2 160	10	4	1SDA067090R1	21,650	1SDA067833R1	25,930	1SDA067890R1	29,300
	25		1SDA067091R1		1SDA067834R1		1SDA067891R1	
	63		1SDA067092R1		1SDA067835R1		1SDA067892R1	
	100		1SDA067093R1		1SDA067836R1		1SDA067893R1	
	160		1SDA067095R1		1SDA067838R1		1SDA067895R1	
XT4 250	250		1SDA068147R1	36,250	1SDA068495R1	40,490	1SDA068535R1	43,800
T5 400	400		1SDA054325R1	46,910	1SDA054341R1	53,600	1SDA054357R1	62,650
T5 630	630		1SDA054400R1	54,780	1SDA054408R1	59,650	1SDA054416R1	69,570
T6 800	800		1SDA060273R1	70,750	1SDA060283R1	86,320	1SDA060294R1	1,05,310
T6 1000*	1000		1SDA060542R1	1,37,590	1SDA060556R1	1,43,840	1SDA060566R1	1,75,120

Note: XT2/XT4 with Ekip LS/I release ; T5-T6 with PR221 LS/I release

*Extended front (EF) terminals are supplied as standard in T6 1000A MCCB

■ Stock items

Tmax power distribution circuit breakers

Protection: LSIG

XT2/XT4/T5/T6



Breaking capacity at 415VAC

	Icu	Ics (Icu)
N	36kA	100%
S	50kA	100%
H	70kA	100%



Ekip LSIG

Frame	In (A)	Poles
XT2 160	10	3
	25	
	63	
	100	
	160	
XT4 250	250	
XT2 160	10	4
	25	
	63	
	100	
	160	
XT4 250	250	

N

Ordering code	Unit L.P. (₹)
1SDA067072R1	36,770
1SDA067073R1	
1SDA067074R1 ■	34,720
1SDA067075R1 ■	
1SDA067076R1 ■	37,280
1SDA068141R1 ■	38,810
1SDA067108R1	43,710
1SDA067109R1	
1SDA067110R1 ■	41,660
1SDA067111R1 ■	
1SDA067113R1 ■	44,730
1SDA068162R1 ■	46,560

S

Ordering code	Unit L.P. (₹)
1SDA067815R1	39,310
1SDA067816R1 ■	
1SDA067817R1 ■	37,280
1SDA067818R1 ■	
1SDA067819R1 ■	40,340
1SDA068490R1 ■	41,360
1SDA067851R1	46,760
1SDA067852R1	
1SDA067853R1 ■	44,730
1SDA067854R1 ■	
1SDA067856R1 ■	48,410
1SDA068510R1 ■	49,630

H

Ordering code	Unit L.P. (₹)
1SDA067872R1	47,480
1SDA067873R1	
1SDA067874R1	45,440
1SDA067875R1	
1SDA067876R1	48,510
1SDA068530R1 ■	50,550
1SDA067908R1	56,580
1SDA067909R1	
1SDA067910R1	54,530
1SDA067911R1	
1SDA067913R1	58,200
1SDA068550R1	60,660

PR22DS/P-LSIG

Frame	In (A)	Poles
T5 400	400	3
T5 630	630	
T6 800	800	
T6 1000*	1000	
T5 400	400	4
T5 630	630	
T6 800	800	
T6 1000*	1000	

N

Ordering code	Unit L.P. (₹)
1SDA054323R1 ■	56,090
1SDA054399R1 ■	59,650
1SDA060271R1 ■	92,020
1SDA060540R1	1,25,090
1SDA054331R1 ■	63,800
1SDA054403R1 ■	69,210
1SDA060276R1 ■	1,06,330
1SDA060545R1 ■	1,66,380

S

Ordering code	Unit L.P. (₹)
1SDA054339R1 ■	58,480
1SDA054407R1 ■	62,050
1SDA060281R1 ■	96,320
1SDA060554R1 ■	1,37,590
1SDA054347R1 ■	65,630
1SDA054411R1 ■	76,360
1SDA060286R1 ■	1,08,820
1SDA060559R1	1,75,120

H

Ordering code	Unit L.P. (₹)
1SDA054355R1	72,680
1SDA054415R1 ■	75,180
1SDA060292R1	1,07,250
1SDA060564R1	1,68,870
1SDA054363R1	81,450
1SDA054419R1	1,02,740
1SDA060297R1	1,26,220
1SDA060569R1	2,12,650

Note: *Extended front (EF) terminals are supplied as standard in T6 1000A MCCB

Tmax power distribution circuit breakers

For MODBUS communication

XT2/XT4/T5/T6



Breaking capacity at 415VAC

	Icu	Ics (Icu)
N	36kA	100%
S	50kA	100%
H	70kA	100%



Ekip LSIG

			N		S		H		
Frame	In (A)	Poles	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	
XT2 160	10	3	1SDA067072R1	36,770	1SDA067815R1	39,310	1SDA067872R1	47,480	
	25		1SDA067073R1		1SDA067816R1 ■		1SDA067873R1		
	63		1SDA067074R1 ■		1SDA067817R1 ■		1SDA067874R1		45,440
	100		1SDA067075R1 ■		1SDA067818R1 ■		1SDA067875R1		
	160		1SDA067076R1 ■		1SDA067819R1 ■		1SDA067876R1		48,510
XT4 250	250		1SDA068141R1 ■	38,810	1SDA068490R1 ■	41,360	1SDA068530R1 ■	50,550	
	10		1SDA067108R1	43,710	1SDA067851R1	46,760	1SDA067908R1	56,580	
XT2 160	25	4	1SDA067109R1	41,660	1SDA067852R1	44,730	1SDA067909R1	54,530	
	63		1SDA067110R1 ■		1SDA067853R1 ■		1SDA067910R1		58,200
	100		1SDA067111R1 ■		1SDA067854R1 ■		1SDA067911R1		
	160		1SDA067113R1 ■		1SDA067856R1 ■		1SDA067913R1		60,660
XT4 250	250		1SDA068162R1 ■	46,560	1SDA068510R1 ■	49,630	1SDA068550R1		

Note : Consider ordering "Ekip Com" for MODBUS communication (Refer page no 43)

PR222DS/PD-LSIG

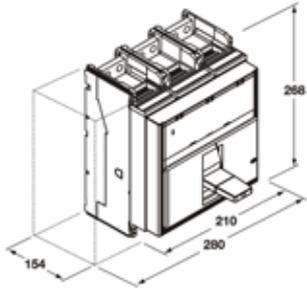
Frame	In (A)	Poles	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)
T5 400	400	3	1SDA081522R1	81,830	1SDA081525R1 ■	84,200	1SDA081528R1	98,410
T5 630	630		1SDA081523R1	85,390	1SDA081526R1 ■	87,770	1SDA081529R1	1,00,910
T6 800	800		1SDA081540R1	1,17,020	1SDA081546R1	1,21,320	1SDA081552R1	1,32,250
T6 1000*	1000		1SDA081541R1	1,50,090	1SDA081547R1	1,62,590	1SDA081553R1	1,93,870
T5 400	400	4	1SDA081531R1	85,350	1SDA081534R1	91,360	1SDA081537R1	1,07,180
T5 630	630		1SDA081532R1	94,940	1SDA081535R1	1,02,100	1SDA081538R1	1,28,480
T6 800	800		1SDA081543R1	1,31,330	1SDA081549R1	1,33,830	1SDA081555R1	1,51,240
T6 1000*	1000		1SDA081544R1	1,91,380	1SDA081550R1	2,00,110	1SDA081556R1	2,35,580

Note: Order X3 connector - 1SDA055059R1 along with PR222DS/PD-LSIG
*Extended front (EF) terminals are supplied as standard in T6 1000A MCCB

■ Stock items

Tmax power distribution circuit breakers

T7



Breaking capacity at 415VAC

	Icu	Ics (Icu)
S	50kA	100%
H	70kA	100%



T7 1250/1600 PR231/P LS/I

In (A)	Poles
1250	3
1600	
1250	4
1600	

S	
Ordering code	Unit L.P. (₹)
1SDA062866R1	1,31,140
1SDA062994R1 ■	1,50,990
1SDA062874R1 ■	1,64,730
1SDA063002R1	1,81,310

H	
Ordering code	Unit L.P. (₹)
1SDA062898R1	1,77,940
1SDA063026R1	1,95,480
1SDA062906R1	2,12,580
1SDA063034R1	2,35,850

PR331/P L SIG

1250	3
1600	
1250	4
1600	

1SDA062868R1 ■	1,68,620
1SDA062996R1	1,75,210
1SDA062876R1	1,87,280
1SDA063004R1	2,06,080

1SDA062900R1	2,02,300
1SDA063028R1	2,21,670
1SDA062908R1	2,38,650
1SDA063036R1	2,58,020

PR332/P L SIG

1250	3
1600	
1250	4
1600	

1SDA062871R1	1,75,210
1SDA062999R1	1,90,110
1SDA062879R1	1,99,990
1SDA063007R1	2,18,760

1SDA062903R1	2,16,570
1SDA063031R1	2,34,770
1SDA062911R1	2,51,210
1SDA063039R1	2,75,990

T7 1250M/1600M PR231/P LS/I



In (A)	Poles
1250	3
1600	
1250	4
1600	

S	
Ordering code	Unit L.P. (₹)
1SDA062882R1	1,50,990
1SDA063010R1	1,67,460
1SDA062890R1	1,68,370
1SDA063018R1	2,02,190

H	
Ordering code	Unit L.P. (₹)
1SDA062914R1	1,97,200
1SDA063042R1	2,20,480
1SDA062922R1	2,37,030
1SDA063050R1	2,63,650

PR331/P L SIG

1250	3
1600	
1250	4
1600	

1SDA062884R1	1,76,270
1SDA063012R1	1,92,320
1SDA062892R1	2,04,910
1SDA063020R1	2,27,570

1SDA062916R1	2,24,480
1SDA063044R1	2,44,940
1SDA062924R1	2,63,120
1SDA063052R1	2,89,850

PR332/P L SIG

1250	3
1600	
1250	4
1600	

1SDA062887R1	1,87,280
1SDA063015R1	2,04,910
1SDA062895R1	2,17,600
1SDA063023R1	2,38,590

1SDA062919R1	2,35,850
1SDA063047R1	2,58,020
1SDA062927R1	2,77,290
1SDA063055R1	3,02,950

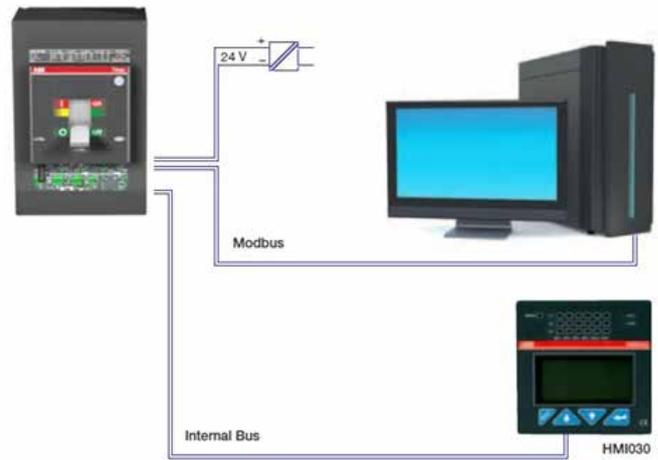
Note : For Motorizable T7 M frame, order along with above code, motor operator, shunt opening coil & shunt closing coil of required voltage.

Tmax power distribution circuit breakers

Ekip E-LSIG

New integrated solution for energy measurement

- Integrated Energy Metering
- Individual protection LEDs
- Internal Bus for HMI connectivity
- Advance measurements such as Power factor, Frequency, peak factor, Energy, Power Harmonic analysis and THD



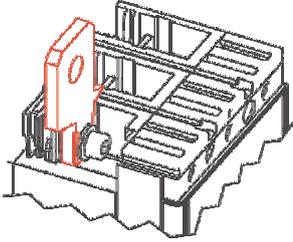
XT4

			N	S	H			
Frame	In (A)	Poles	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)
XT4 160	40	3	1SDA069601R1	Upon request	1SDA069611R1	Upon request	1SDA069621R1	Upon request
	63		1SDA069602R1		1SDA069612R1		1SDA069622R1	
	100		1SDA069603R1		1SDA069613R1		1SDA069623R1	
	160		1SDA069604R1		1SDA069614R1		1SDA069624R1	
XT4 250	250		1SDA069605R1		1SDA069615R1		1SDA069625R1	
	40		1SDA069606R1		1SDA069616R1		1SDA069626R1	
XT4 160	63	4	1SDA069607R1	Upon request	1SDA069617R1	Upon request	1SDA069627R1	Upon request
	100		1SDA069608R1		1SDA069618R1		1SDA069628R1	
	160		1SDA069609R1		1SDA069619R1		1SDA069629R1	
XT4 250	250		1SDA069610R1		1SDA069620R1		1SDA069630R1	

T5

			N	S	H			
Frame	In (A)	Poles	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)	Ordering code	Unit L.P.(₹)
T5 400	320	3	1SDA081043R1	Upon request	1SDA081044R1	Upon request	1SDA081045R1	Upon request
	400		1SDA081048R1		1SDA081049R1		1SDA081050R1	
T5 630	630		1SDA081063R1		1SDA081064R1		1SDA081065R1	
T5 400	320	4	1SDA081053R1	Upon request	1SDA081045R1	Upon request	1SDA081055R1	Upon request
	400		1SDA081058R1		1SDA081059R1		1SDA081060R1	
T5 630	630		1SDA081068R1		1SDA081069R1		1SDA081070R1	

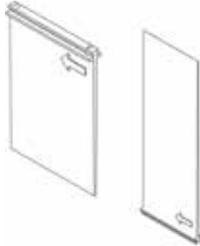
Tmax accessories



Accessories for T-Max MCCBs

Extended spreaded terminals - ES			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1	KIT ES XT1 6pcs	1SDA066891R1 ■	1,740
	KIT ES XT1 8pcs	1SDA066892R1 ■	2,350
XT2	KIT ES XT2 6pcs	1SDA066895R1 ■	2,370
	KIT ES XT2 8pcs	1SDA066896R1 ■	2,910
XT3	KIT ES XT3 6pcs	1SDA066899R1 ■	2,550
	KIT ES XT3 8pcs	1SDA066900R1 ■	3,270
XT4	KIT ES XT4 6pcs	1SDA066903R1 ■	2,960
	KIT ES XT4 8pcs	1SDA066904R1 ■	3,730
T5	Kit EST5 6pcs	1SDA055038R1 ■	4,240
	Kit EST5 8pcs	1SDA055039R1 ■	5,640

Note: Phase barrier supplied as standard with above copper spreaders.



Separator - PB			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1-XT3	PB 100mm 4pcs XT1-XT3 3p	1SDA066676R1	690
	PB 200mm 4pcs XT1-XT3 3p	1SDA066678R1	870
	PB 100mm 6pcs XT1-XT3 4p	1SDA066681R1	1,030
	PB 200mm 6pcs XT1-XT3 4p	1SDA066683R1	1,300
XT2-XT4	PB 100mm 4pcs XT2-XT4 3p	1SDA066675R1	730
	PB 200mm 4pcs XT2-XT4 3p	1SDA066677R1 ■	1,110
	PB 100mm 6pcs XT2-XT4 4p	1SDA066680R1	1,110
	PB 200mm 6pcs XT2-XT4 4p	1SDA066682R1	1,670
T5	PB100 4 pcs - Low T4, T5	1SYN850207R0001	980
	PB100mm 4pcs T4-5-T7-A3 3P	1SDA054970R1	910
	PB 100mm 6pcs T4-5-T7-A3 3P	1SDA054971R1	1,330
	PB100 4 pcs - Low T4, T5	1SYN850207R0001	980
	PB100 6 pcs - Low T4, T5 - 400A	1SYN850210R0001 ■	1,400

Note: For T5 630A contact the nearest sales office

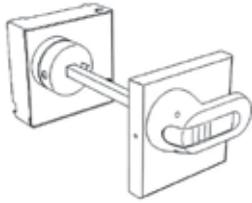
Rotary handle operating mechanism



Direct - RHD			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1...XT4	RHD XT1-XT3 F/P STANDARD DIRECT	1SDA066475R1 ■	1,630
	RHD XT2-XT4 F/P STANDARD DIRECT	1SDA069053R1 ■	1,950
	RHD XT2-XT4 W STANDARD DIRECT	1SDA066476R1	1,950
T5	RHD Normal for Fixed/Plug-in T4-T5	1SDA054926R1 ■	3,490
	RHD Normal for withdrawable T4-T5	1SDA054928R1	3,870
T6	RHD Normal for fixed T6	1SDA060405R1 ■	4,780
	RHD Normal for withdrawable T6	1SDA060407R1	6,030
T7	RHD Normal for Fixed/Plug-in T7	1SDA062120R1	6,220

Note:- F/P: Fixed/Plug-in ; W:Withdrawable

Tmax accessories



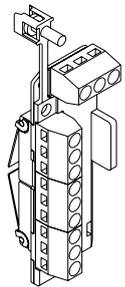
Transmitted - RHE			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1...XT4	RHE XT1-XT3 F/P STANDARD RETURNED(250mm)	1SDA082810R1 ■	1,520
	RHE XT1-XT3 F/P STANDARD RETURNED (500mm)	1SDA066479R1	1,740
	RHE XT2-XT4 F/P STANDARD RETURNED (250mm)	1SDA082811R1 ■	2,020
	RHE XT2-XT4 F/P STANDARD RETURNED (500mm)	1SDA069055R1	2,240
	RHE XT2-XT4 W STANDARD RETURNED	1SDA066480R1 ■	2,240
	RHS L XT2-XT4 F/P STAND. SX LATERAL	1SDA069058R1	3,580
	RHS R XT2-XT4 F/P STAND. DX LATERAL	1SDA069060R1	3,520
T5	RHE Normal for Fixed/Plug-in T4-T5 250mm	1SDA070447R1 ■	3,260
	RHE Normal for Withdrawable T4-T5	1SDA054933R1 ■	5,950
T6	RHE Normal for Fixed T6	1SDA060409R1 ■	6,230
	RHE Normal for Withdrawable T6	1SDA060411R1	7,230
T7	RHE Normal for Fixed/Plug-in T7	1SDA062122R1 ■	7,550

Note:- F/P: Fixed/Plug-in ; W: Withdrawable



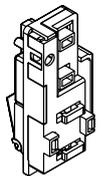
Electrical signals

Auxillary contact - AUX (Uncabled version)			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1...XT4	AUX 1Q 250Vac/dc XT1...XT4	1SDA066422R1 ■	920
	AUX 1Q 24Vdc XT1...XT4	1SDA066423R1	1,430



Auxillary contact - AUX			
Frame	Description	Ordering code	Unit L.P.(₹)
T5..T6(1)	AUX 1Q 1SY 250V AC/DC T1...T6 (1)	1SDA051368R1 ■	1,620
	AUX 3Q 1SY 250V AC/DC T1...T6 (1)	1SDA051369R1	2,610
	AUX 3Q 1SY 24V DC T1...T6 (1)	1SDA054914R1	2,520
T5	AUX-SA 1 S51 T4-T5	1SDA055050R1	
T7M	AUX 2Q 24V DC T7M-X1	1SDA062101R1	1,620
	AUX 2Q 400V AC T7M-X1	1SDA062102R1	
T7M	AUX SA T7M-X1 S51 24VDC	1SDA066100R1	6,210
	AUX SA T7M-X1 S51 250VAC	1SDA063553R1	7,220
T7	AUX 1Q + 1SY 24V DC T7	1SDA062103R1	2,520
	AUX 1Q + 1SY 400V AC T7	1SDA062104R1 ■	

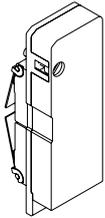
Note : Q=Changeover contact;SY= Trip indication contact
For T7 / T7M in Withdrawable version sliding contact blocks for fixed and moving parts are necessary.



Cabled contact in electronic version			
Frame	Description	Ordering code	Unit L.P.(₹)
T5	AUX-E-C 1Q 1SY T4-T5	1SDA054916R1	5,330
T6	AUX-E-C 1Q 1SY T6	1SDA064161R1	6,220

■ Stock items

Tmax accessories



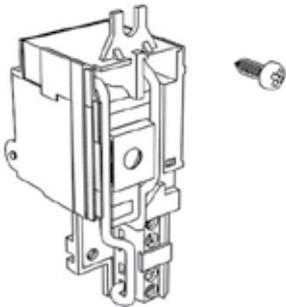
Auxiliary contact cabled-version - AUX - C			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	AUX-C 1Q+1SY 250V AC/DC XT1..XT4 F/P	1SDA066431R1 ■	1,530
	AUX-C 2Q+1SY 250VAC/DC XT1..XT4 F/P	1SDA066433R1 ■	2,450
	AUX-C 3Q+1SY 250VAC/DC XT2..XT4 F/P	1SDA066434R1 ■	2,910
	AUX-C 3Q+2SY 250VAC/DC XT2-XT4 F/P	1SDA066436R1	3,580
	AUX-C 2Q+2SY+1S51 250VAC/DC XT2-XT4 F/P	1SDA066438R1	3,870
	AUX-C 2Q 400V AC XT2-XT4 F/P	1SDA066440R1	1,840
	AUX-C 1Q+1SY 400Vac XT2-XT4 F/P	1SDA066444R1	2,930
	AUX-C 1Q+1SY 24Vdc XT1..XT4 F/P	1SDA066446R1 ■	2,150
T5-T6	AUX-C 3Q+1SY 24VDC XT2..XT4 F/P	1SDA066448R1	3,370
	AUX-C 1Q 1SY 250V AC/DC C T4-T5-T6	1SDA054910R1	2,150
	AUX-C 1Q 1SY 400V AC C T4-T5-T6	1SDA054912R1	3,160
	AUX-C 2Q 400V AC C T4-T5-T6	1SDA054913R1	3,630
	AUX-C 3Q 1SY 24VDC C T4-T5-T6	1SDA054915R1	3,400
	AUX-C 3Q 1SY 250V AC/DC C T4-T5-T6	1SDA054911R1 ■	4,020

Note : Q=Changeover contact;SY= Trip indication contact ;F/P: Fixed/Plug-in ; W:Withdrawable

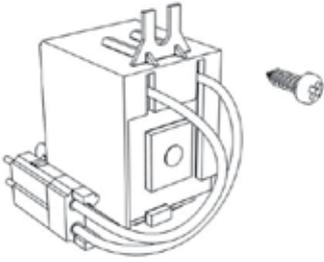
Opening release

Shunt opening release - SOR (Un-cabled version - For Fixed and Plug-in circuit breakers)			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	SOR XT1..XT4 12 VDC	1SDA066313R1	2,150
	SOR XT1..XT4 24-30 V AC/DC	1SDA066314R1 ■	
	SOR XT1..XT4 48-60 V Ac/DC	1SDA066315R1	
	SOR XT1..XT4 110...127 V ac-110...125 V dc	1SDA066316R1	
	SOR XT1..XT4 220...240 V ac-220...250 V dc	1SDA066317R1 ■	
	SOR XT1..XT4 380-440 V ac	1SDA066318R1	
	SOR XT1..XT4 480-525 V ac	1SDA066319R1	
T5-T6	SOR 12V DC T4-T5-T6	1SDA054862R1	3,250
	SOR 24V AC/DC T4-T5-T6	1SDA054863R1	
	SOR 48...60V AC/DC T4-T5-T6	1SDA054864R1	
	SOR 110...120V AC-110...125V DC T4-T5-T6	1SDA054865R1 ■	
	SOR 220...240V AC-220...250V DC T4-T5-T6	1SDA054866R1	
	SOR 380...440V AC T4-T5-T6	1SDA054867R1	
T7-T7M-X1	SOR 480...500V AC T4-T5-T6	1SDA054868R1	6,360
	SOR 24V AC/DC T7-T7M-X1	1SDA062065R1	
	SOR 30V AC/DC T7-T7M-X1	1SDA062066R1	
	SOR 48V AC/DC T7-T7M-X1	1SDA062067R1	
	SOR 60V AC/DC T7-T7M-X1	1SDA062068R1	
	SOR 110...120V AC/DC T7-T7M-X1	1SDA062069R1	
	SOR 120...127V AC/DC T7-T7M-X1	1SDA063547R1	
	SOR 220...240V AC/DC T7-T7M-X1	1SDA063548R1	
	SOR 240...250V AC/DC T7-T7M-X1	1SDA062070R1	
	SOR 380...400V AC T7-T7M-X1	1SDA062071R1	
	SOR 415...440V AC T7-T7M-X1	1SDA062072R1	

Note: For T7 / T7M in Withdrawable version sliding contact blocks for fixed and moving parts are necessary.



Tmax accessories



Shunt opening release - SOR - C (Cabled version)			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1...XT4	SOR-C XT1..XT4 F/P 12 Vdc	1SDA066321R1	3,270
	SOR-C XT1..XT4 F/P 24-30 Vac/dc	1SDA066322R1	
	SOR-C XT1..XT4 F/P 48-60 Vac/dc	1SDA066323R1	
	SOR-C XT1..XT4 F/P 110-127Vac-110-125Vdc	1SDA066324R1	
	SOR-C XT1..XT4 F/P 220-240Vac-220-250Vdc	1SDA066325R1	
	SOR-C XT1..XT4 F/P 380-440 Vac	1SDA066326R1	
	SOR-C XT1..XT4 F/P 480-525 Vac	1SDA066327R1	
	SOR-C XT2-XT4 W 12 Vdc	1SDA066328R1	3,830
	SOR-C XT2-XT4 W 24-30 Vac/dc	1SDA066329R1	
	SOR-C XT2-XT4 W 48-60 Vac/dc	1SDA066330R1	
	SOR-C XT2-XT4 W 110-127Vac-110-125Vdc	1SDA066331R1	
	SOR-C XT2-XT4 W 220-240Vac-220-250Vdc	1SDA066332R1	
	SOR-C XT2-XT4 W 380-440 Vac	1SDA066333R1	
	SOR-C XT2-XT4 W 480-525 Vac	1SDA066334R1	
T5-T6	SOR-C 12V DC T4-T5-T6	1SDA054869R1	5,740
	SOR-C 24V AC/DC T4-T5-T6	1SDA054870R1	
	SOR-C 48...60V AC/DC T4-T5-T6	1SDA054871R1	
	SOR-C 110...120V AC-110...125V DC T4-T5-T6	1SDA054872R1	
	SOR-C 220...240V AC-220...250V DC T4-T5-T6	1SDA054873R1	
	SOR 380...440V AC T4-T5-T6	1SDA054875R1	
SOR 480...500V AC T4-T5-T6	1SDA054868R1		

Note:- F/P: Fixed/Plug-in ; W: Withdrawable

Test unit- SOR

Frame	Description	Ordering code	Unit L.P.(₹)
T7-T7M-X1-E1/6	SOR test unit T7-T7M-X1-E1/6	1SDA050228R1	29,820

Under voltage release - UVR (Un-cabled version - For Fixed and Plug-in circuit breakers)

Frame	Description	Ordering code	Unit L.P.(₹)		
XT1...XT4	UVR XT1..XT4 24-30 VAC/DC	1SDA066389R1	4,030		
	UVR XT1..XT4 48 VAC/DC	1SDA069064R1			
	UVR XT1..XT4 60 VAC/DC	1SDA066390R1			
	UVR XT1..XT4 110-127Vac-110-125Vdc	1SDA066391R1			
	UVR XT1..XT4 220-240Vac-220-250Vdc	1SDA066392R1 ■			
	UVR XT1..XT4 380-440 Vac	1SDA066393R1 ■			
T5-T6	UVR XT1..XT4 480-525 Vac	1SDA066394R1	7,520		
	UVR 24V AC/DC T4-T5-T6	1SDA054880R1			
	UVR 48V AC/DC T4-T5-T6	1SDA054881R1			
	UVR 60V AC/DC T4-T5-T6	1SDA054882R1			
	UVR 110...120V AC-110...125V DC T4-T5-T6	1SDA054883R1 ■			
	UVR 220...240V AC-220...250V DC T4-T5-T6	1SDA054884R1 ■			
	UVR 380...440V AC T4-T5-T6	1SDA054885R1 ■			
	UVR 480...500V AC T4-T5-T6	1SDA054886R1			
	T7-T7M	UVR 24V AC/DC T7-T7M-X1		1SDA062087R1	8,460
		UVR 30V AC/DC T7-T7M-X1		1SDA062088R1	
UVR 48V AC/DC T7-T7M-X1		1SDA062089R1			
UVR 60V AC/DC T7-T7M-X1		1SDA062090R1			
UVR 110...120V AC/DC T7-T7M-X1		1SDA062091R1			
UVR 120...127V AC/DC T7-T7M-X1		1SDA063551R1			
UVR 220...240V AC/DC T7-T7M-X1		1SDA063552R1			
UVR 240...250V AC/DC T7-T7M-X1		1SDA062092R1			
UVR 380...400V AC T7-T7M-X1		1SDA062093R1			
UVR 415...440V AC T7-T7M-X1		1SDA062094R1			

Note: For T7 TM in Withdrawable version sliding contact blocks for fixed and moving parts are necessary.

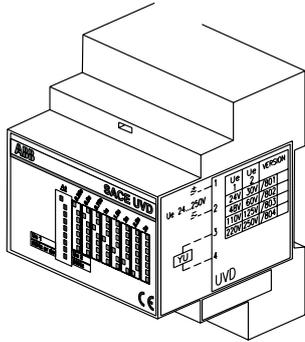
■ Stock items

Tmax accessories

Under voltage release C - UVR - C (Cabled version)

Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	UVR-C XT1..XT4 F/P 24-30 VAC/DC	1SDA066396R1	6,280
	UVR-C XT1..XT4 F/P 48 Vac/dc	1SDA069065R1	
	UVR-C XT1..XT4 F/P 60 Vac/dc	1SDA066397R1	
	UVR-C XT1..XT4 F/P 110-127Vac-110-125Vdc	1SDA066398R1	
	UVR-C XT1..XT4 F/P 220-240Vac-220-250Vdc	1SDA066399R1 ■	
	UVR-C XT1..XT4 F/P 380-440 Vac	1SDA066400R1	
	UVR-C XT1..XT4 F/P 480-525 Vac	1SDA066401R1	6,800
	UVR-C XT2-XT4 W 24-30 Vac/dc	1SDA066403R1	
	UVR-C XT2-XT4 W 48 Vac/dc	1SDA069066R1	
	UVR-C XT2-XT4 W 60 Vac/dc	1SDA066404R1	
	UVR-C XT2-XT4 W 110-127Vac-110-125Vdc	1SDA066405R1	
	UVR-C XT2-XT4 W 220-240Vac-220-250Vdc	1SDA066406R1	
	UVR-C XT2-XT4 W 380-440 Vac	1SDA066407R1	
	UVR-C XT2-XT4 W 480-525 Vac	1SDA066408R1	
T5-T6	UVR-C 24V AC/DC T4-T5-T6	1SDA054887R1	10,160
	UVR-C 48V AC/DC T4-T5-T6	1SDA054888R1	

Note:- F/P: Fixed/Plug-in ; W: Withdrawable

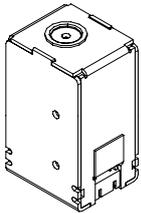


Time delay device for under voltage release- UVD

Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	UVD T1...T6 - XT1...XT4 24...30 Vac/dc	1SDA051357R1	34,340
	UVD T1...T6 - XT1...XT4 48...60 Vac/dc	1SDA051358R1	
	UVD T1...T6 - XT1...XT4 110...125 Vac/dc	1SDA051360R1	
	UVD T1...T6 - XT1...XT4 220...250 Vac/dc	1SDA051361R1	
T5...T6	UVD 24...30V AC/DC T1...T6	1SDA051357R1	11,820
	UVD 48...60V AC/DC T1...T6	1SDA051358R1	
	UVD 110...125V AC/DC T1...T6	1SDA051360R1	
T7-T7M	UVD 220...250V AC/DC T1...T6	1SDA051361R1	11,820
	UVD 24/30V AC/DC E1/6 - T7-T7M-X1	1SDA038316R1	
	UVD 48V AC/DC E1/6 - T7-T7M-X1	1SDA038317R1	
	UVD 60V AC/DC E1/6 - T7-T7M-X1	1SDA038318R1	
	UVD 110...125V AC/DC E1/6 - T7-T7M-X1	1SDA038319R1	
UVD 220...250V AC/DC E1/6 - T7-T7M-X1	1SDA038320R1		

Note: Order along with relative UV release

Shunt closing release



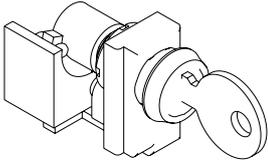
Frame	Description	Ordering code	Unit L.P.(₹)
T7M	SCR 24V AC/DC T7M-X1	1SDA062076R1	8,040
	SCR 30V AC/DC T7M-X1	1SDA062077R1	
	SCR 48V AC/DC T7M-X1	1SDA062078R1	
	SCR 60V AC/DC T7M-X1	1SDA062079R1	
	SCR 110...120V AC/DC T7M-X1	1SDA062080R1	
	SCR 120...127V AC/DC T7M-X1	1SDA063549R1	
	SCR 220...240V AC/DC T7M-X1	1SDA063550R1	
	SCR 240...250V AC/DC T7M-X1	1SDA062081R1	
	SCR 380...400V AC T7M-X1	1SDA062082R1	
	SCR 415...440V AC T7M-X1	1SDA062083R1	

Note: For T7 M in withdrawable version sliding blocks for fixed and moving parts are necessary.

Tmax accessories

Key lock

Key Lock - KLC			
Frame	Description	Ordering code	Unit L.P.(₹)
KLC for Manual Breaker			
XT1....XT4	KLC XT1 KEY LOCK RONIS ON CB DIFF.KEY	1SDA066593R1	1,950
	KLC XT1 KEY LOCK RONIS ON CB TYPE A	1SDA066594R1	
	KLC XT1 KEY LOCK RONIS ON CB TYPE B	1SDA066595R1	
	KLC XT1 KEY LOCK RONIS ON CB TYPE C	1SDA066596R1	
	KLC XT1 KEY LOCK RONIS ON CB TYPE D	1SDA066597R1	
	KLC XT1 KEY LOCK RONIS EQ.FEL.A OP/CL	1SDA066598R1	
	KLC XT2-XT4 KEY LOCK RONIS SE.OP.xC.BRE.	1SDA066599R1	
	KLC XT2-XT4 KEY LOCK RONIS ON CB TYPE A	1SDA066600R1 ■	
	KLC XT2-XT4 KEY LOCK RONIS ON CB TYPE B	1SDA066601R1	
	KLC XT2-XT4 KEY LOCK RONIS ON CB TYPE C	1SDA066602R1	
	KLC XT2-XT4 KEY LOCK RONIS ON CB TYPE D	1SDA066603R1	
	KLC XT2-XT4 KEY LOCK RONIS EQ.FE.A OP/CL	1SDA066604R1	
	KLC XT3 KEY LOCK RONIS SEV.OP. X C.BREA.	1SDA066605R1	
	KLC XT3 KEY LOCK RONIS ON CB TYPE A	1SDA066606R1	
	KLC XT3 KEY LOCK RONIS ON CB TYPE B	1SDA066607R1	
	KLC XT3 KEY LOCK RONIS ON CB TYPE C	1SDA066608R1	
KLC XT3 KEY LOCK RONIS ON CB TYPE D	1SDA066609R1		
KLC XT3 KEY LOCK RONIS EQ.FEL.A OP/CL	1SDA066610R1		
T7	KLC-D Key Lock - Different Key in Open Position T7	1SDA062134R1	3,390
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20005) T7	1SDA062135R1	
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20006) T7	1SDA062136R1	
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20007) T7	1SDA062137R1	
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20008) T7	1SDA062138R1	
	KLC Arrangement for Profalux Key Lock T7	1SDA062139R1	
T7 M	KLC-D Different Key in open Position T7M	1SDA062141R1	3,590
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20005) T7M	1SDA062142R1	
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20006) T7M	1SDA062143R1	
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20007) T7M	1SDA062144R1	
	KLC-S Same Key for Different Groups of Circuit Breakers (N. 20008) T7M	1SDA062145R1	
	KLC Same Key Ronis-Profalux T7M	1SDA062146R1	



Pad Lock - KLC			
Frame	Description	Ordering code	Unit L.P.(₹)
KLC for Manual breaker			
XT1....XT4	PLL XT1-XT3 REMOV.PADL.DEVICE OPEN PLUG	1SDA066588R1	1,430
	PLL XT1-XT3 PADLOCKS DEVICE OPEN	1SDA066589R1	
	PLL XT2-XT4 PADLOCKS DEVICE OPEN	1SDA066590R1	
	PLL XT1-XT3 PADLOCKS DEVICE OP/CL	1SDA066591R1	
	PLL XT2-XT4 PADLOCKS DEVICE OP/CL	1SDA066592R1	

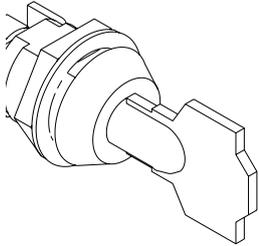


Key Lock for Rotary Handle - RHL			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	RHL XT1..XT4 KEY LOCK RONIS SEVERAL	1SDA066617R1 ■	1,530
	RHL XT1..XT4 KEY LOCK RONIS TYPE A	1SDA066618R1 ■	
	RHL XT1..XT4 KEY LOCK RONIS TYPE B	1SDA066619R1	
	RHL XT1..XT4 KEY LOCK RONIS TYPE C	1SDA066620R1	
	RHL XT1..XT4 KEY LOCK RONIS TYPE D	1SDA066621R1	
	RHL XT1..XT4 KEY LOCK RONIS SEVER. OP/CL	1SDA066622R1	
	RHL XT1..XT4 KEY LOCK RONIS SEVER. OP/CL	1SDA069182R1	
	MOL-D XT1-XT3 KEY LOCK RONIS DIFF. KEY	1SDA066623R1	

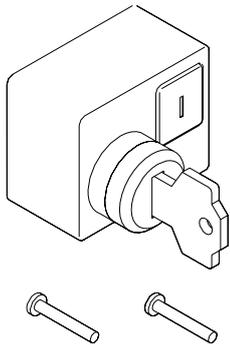


■ Stock items

Tmax accessories



Key Lock for Front/Rotary/Fixed Part- KLF			
Frame	Description	Ordering code	Unit L.P.(₹)
T5	KLF-D Lock for Front/Rotary Handle - Different Key in open Position T4-T5	1SDA054939R1	3,230
	KLF-S Block for Front/Rotary Handle - Same Key (N. 20005) T4-T5	1SDA054940R1 ■	
	KLF-S Block for Front/Rotary Handle - Same Key (N. 20006) T4-T5	1SDA054941R1	
	KLF-S Block for Front/Rotary Handle - Same Key (N. 20007) T4-T5	1SDA054942R1	
	KLF-S Block for Front/Rotary Handle - Same Key (N. 20008) T4-T5	1SDA054943R1	
T5-T6	KLF-D FP Different Key for Each Circuit Breaker T4-T5-T6	1SDA055230R1	3,050
	KLF-D FP Same Key for Different Groups of Circuit Breaker T4-T5-T6	1SDA055231R1	
	KLF-D Ronis Fixed Part- Lock Type Ronis T4-T5-T6	1SDA055233R1	
T6	KLF-D Different Key in open Position T6	1SDA060658R1	3,140
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20005) T6	1SDA060659R1	
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20006) T6	1SDA060660R1	
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20007) T6	1SDA060661R1	
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20008) T6	1SDA060662R1	
T7	KLF-D Different Key in open Position T7	1SDA063555R1	3,140
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20005) T7	1SDA063556R1	
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20006) T7	1SDA063557R1	
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20007) T7	1SDA063558R1	
	KLF-S Same Key for Different Groups of Circuit Breakers (N. 20008) T7	1SDA063559R1	
	KLF Arrangement for Ronis key lock T7	1SDA063560R1	
	KLF Arrangement for Profalux key lock T7	1SDA063561R1	



Key lock for motor operated- MOL

Frame	Description	Ordering code	Unit L.P.(₹)
XT1-XT3	MOL-S XT1-XT3 KEY LOCK RONIS TYPE A	1SDA066624R1	3,260
	MOL-S XT1-XT3 KEY LOCK RONIS TYPE B	1SDA066625R1	
	MOL-S XT1-XT3 KEY LOCK RONIS TYPE C	1SDA066626R1	
	MOL-S XT1-XT3 KEY LOCK RONIS TYPE D	1SDA066627R1	
XT2-XT4	MOL-D XT2-XT4 KEY LOCK RONIS DIFF. KEY	1SDA066629R1	3,260
	MOL-S XT2-XT4 KEY LOCK RONIS TYPE A	1SDA066630R1	
	MOL-S XT2-XT4 KEY LOCK RONIS TYPE B	1SDA066631R1	
	MOL-S XT2-XT4 KEY LOCK RONIS TYPE C	1SDA066632R1	
	MOL-S XT2-XT4 KEY LOCK RONIS TYPE D	1SDA066633R1	
	MOL-M XT2-XT4 KEY LOCK RONIS MAN. OPER.	1SDA066634R1	
T5	MOL-D - Same Key T4-T5	1SDA054904R1	3,260
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20005) T4-T5	1SDA054905R1 ■	
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20006) T4-T5	1SDA054906R1	
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20007) T4-T5	1SDA054907R1	
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20008) T4-T5	1SDA054908R1	
T5-T6	MOL-M - Lock only on Manual Operation - Same Key T4-T5-T6	1SDA054909R1	3,260
	MOL-D - Different Key T6	1SDA060611R1	
T6	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20005) T6	1SDA060612R1	3,260
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20006) T6	1SDA060613R1	
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20007) T6	1SDA060614R1	
	MOL-S - Same Key for Different Groups of Circuit Breakers (N. 20008) T6	1SDA060615R1	



Motor operator with direct action - MOD

Frame	Description	Ordering code	Unit L.P.(₹)
XT1-XT3	MOD XT1-XT3 24 V dc	1SDA066457R1	21,450
	MOD XT1-XT3 48...60 V dc	1SDA066458R1	
	MOD XT1-XT3 110...125 V ac/dc	1SDA066459R1	18,390
	MOD XT1-XT3 220...250 V ac/dc	1SDA066460R1 ■	
	MOD XT1-XT3 380...440 V ac	1SDA066461R1	21,450
	MOD XT1-XT3 480...525 V ac	1SDA066462R1	

■ Stock items

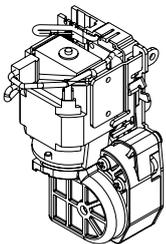
Tmax accessories



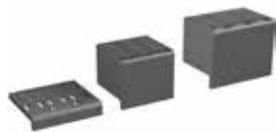
Stored Energy Motor Operator - MOE			
Frame	Description	Ordering code	Unit L.P.(₹)
XT2-XT4	MOE XT2-XT4 24 V dc	1SDA066463R1	31,660
	MOE XT2-XT4 48...60 V dc	1SDA066464R1	
	MOE XT2-XT4 110...125 V ac/dc	1SDA066465R1	
	MOE XT2-XT4 220...250 V ac/dc	1SDA066466R1 ■	27,580
	MOE XT2-XT4 380...440 V ac	1SDA066467R1	
	MOE XT2-XT4 480...525 V ac	1SDA066468R1	
T5	MOE 24 V DC T4-T5	1SDA054894R1	32,430
	MOE 48...60 V DC T4-T5	1SDA054895R1	
	MOE 110...125 V AC / DC T4-T5	1SDA054896R1	
	MOE 220...250 V AC / DC T4-T5	1SDA054897R1 ■	
	MOE 380 V AC T4-T5	1SDA054898R1	
T6	MOE 24 V DC T6	1SDA060395R1	40,380
	MOE 48...60 V DC T6	1SDA060396R1	
	MOE 110...125 V AC/DC T6	1SDA060397R1	
	MOE 220...250 V AC/DC T6	1SDA060398R1 ■	
	MOE 380 V AC T6	1SDA060399R1	



Stored energy motor operator with electronics - MOE-E			
Frame	Description	Ordering code	Unit L.P.(₹)
XT2 - XT4	MOE-E XT2-XT4 24V dc X REM.CONTR.	1SDA066469R1	33,190
	MOE-E XT2-XT4 48...60V dc X REM.CONTR.	1SDA066470R1	
	MOE-E XT2-XT4 110..125V ac/d X REM.CONT.	1SDA066471R1	
	MOE-E XT2-XT4 220..250V ac/dc X REM.CONTR	1SDA066472R1	
	MOE-E XT2-XT4 380...440V ac X REM.CONTR	1SDA066473R1	
	MOE-E XT2-XT4 480..525V ac X REM.CONTR	1SDA066474R1	
T5	MOE-E 24 V DC T4-T5	1SDA054899R1	42,520
	MOE-E 48...60 V DC T4-T5	1SDA054900R1	
	MOE-E 110...125 V AC / DC T4-T5	1SDA054901R1	
	MOE-E 220...250 V AC / DC T4-T5	1SDA054902R1 ■	
	MOE-E 380 V AC T4-T5	1SDA054903R1	
T6	MOE-E 24 V DC T6	1SDA060400R1	52,480
	MOE-E 48...60 V DC T6	1SDA060401R1	
	MOE-E 110...125 V AC/DC T6	1SDA060402R1	
	MOE-E 220...250 V AC/DC T6	1SDA060403R1	
	MOE-E 380 V AC T6	1SDA060404R1	



Spring charging motor- M			
Frame	Description	Ordering code	Unit L.P.(₹)
T7M	M 24...30V AC/DC T7M	1SDA062113R1	40,380
	M 48...60V AC/DC T7M	1SDA062114R1	42,520
	M 100...130V AC/DC T7M	1SDA062115R1	40,380
	M 220...250V AC/DC T7M	1SDA062116R1	
	M 380...415V AC T7M	1SDA062117R1	



High insulating terminal covers - HTC			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1...XT4	HTC XT1 3p TERMINAL COVERS HIGH 2pcs	1SDA066664R1	2,550
	HTC XT2 3p TERMINAL COVERS HIGH 2pcs	1SDA066666R1	2,910
	HTC XT3 3p TERMINAL COVERS HIGH 2pcs	1SDA066668R1	3,160
	HTC XT4 3p TERMINAL COVERS HIGH 2pcs	1SDA066670R1	3,520
	HTC XT1 4p TERMINAL COVERS HIGH 2pcs	1SDA066665R1	3,420
	HTC XT2 4p TERMINAL COVERS HIGH 2pcs	1SDA066667R1	3,870
	HTC XT3 4p TERMINAL COVERS HIGH 2pcs	1SDA066669R1	4,240
	HTC XT4 4p TERMINAL COVERS HIGH 2pcs	1SDA066671R1	4,700

■ Stock items

Tmax accessories



Low insulating terminal covers - LTC			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	LTC XT1 3p TERMINAL COVERS LOW 2pcs	1SDA066655R1	1,840
	LTC XT2 3p TERMINAL COVERS LOW 2pcs	1SDA066657R1	
	LTC XT3 3p TERMINAL COVERS LOW 2pcs	1SDA066660R1	1,950
	LTC XT4 3p TERMINAL COVERS LOW 2pcs	1SDA066662R1	
	LTC XT1 4p TERMINAL COVERS LOW 2pcs	1SDA066656R1	2,150
	LTC XT2 4p TERMINAL COVERS LOW 2pcs	1SDA066659R1	
	LTC XT3 4p TERMINAL COVERS LOW 2pcs	1SDA066661R1	2,400
	LTC XT4 4p TERMINAL COVERS LOW 2pcs	1SDA066663R1	2,750
T5	LTC 3p T5	1SDA054968R1	2,610
	LTC 4p T5	1SDA054969R1	3,440
T6	LTC 3p T6	1SDA014038R1	2,850
	LTC 4p T6	1SDA014039R1	3,800
T7-T7M	LTC 3p T7-T7M	1SDA063093R1	4,370
	LTC 4p T7-T7M	1SDA063094R1	5,610

Dialogue unit - PR 222/DS-PD			
Frame	Description	Ordering code	Unit L.P.(₹)
T5-T6	PR222DS/PD LSI T4-T5-T6	1SDA055066R1	27,130
	PR222DS/PD LSI T4-T5-T6	1SDA055067R1	28,320

Note : Order X3 connector along with dialogue unit

Dialogue unit - Ekip E-LSIG			
Frame	Description	Ordering code	Unit L.P.(₹)
T5	DIALOG Ekip E-LSIG MOD.T5 (EXTR)	1SDA081094R1	23,480

X3 connector			
Frame	Description	Ordering code	Unit L.P.(₹)
T5-T6	X3 Connector for fixed circuit-breaker PR222DS or PR223DS	1SDA055059R1	3,580
	X3 Connector for plug-in/withdrawable circuit-breaker	1SDA055061R1	

X4 Connector			
Frame	Description	Ordering code	Unit L.P.(₹)
T5-T6	X4 Connector for fixed circuit-breaker	1SDA055060R1	3,580
	X4 Connector for plug-in/withdrawable circuit-breaker	1SDA055062R1	

Tmax accessories

Residual current devices			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1	RC Inst x XT1 3p F	1SDA067122R1	20,430
	RC Sel x XT1 3p F	1SDA067123R1	
	RC Sel 200 x XT1 4p F	1SDA067121R1	29,620
	RC Inst x XT1 4p F	1SDA067124R1	23,700
	RC Sel x XT1 4p F	1SDA067125R1	
XT2	RC Sel x XT2 4p F	1SDA067126R1	43,600
	RC Inst x XT3 3p F	1SDA067127R1	51,160
	RC Sel x XT3 3p F	1SDA067128R1	56,870
XT3	RC Inst x XT3 4p F	1SDA067129R1	55,040
	RC B Type x XT3 4p F	1SDA067132R1	85,670
	RC Sel x XT3 4p F	1SDA067130R1	60,600
	T5	RC222/5 4p Fixed T5	1SDA054955R1



Automation transfer switch - ATS

Automatic transfer switch			
Frame	Description	Ordering code	Unit L.P.(₹)
XT2-XT4/ T5- T7/ E1-E6	ATS021	1SDA065523R1	83,740
	ATS022	1SDA065524R1	91,910

Note : ATS will be used along with either two motorized ACB or MCCBs with required interlocking and changeover base plate as per the requirement.



Mechanical interlock between circuit breakers			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	MIR-HR XT1...XT4 MECH INTERLOCK HOR. 2 CB**	1SDA066637R1	13,790
	MIR-VR XT1...XT4 MECH INTERLOCK VER. 2 CB**	1SDA066638R1	
	MIR-P PLATE x XT1 F	1SDA066639R1	4,610
	MIR-P PLATE x XT2 F	1SDA066641R1	
	MIR-P PLATE x XT3 F	1SDA066643R1	
	MIR-P PLATE x XT4 F	1SDA066645R1	

Note : ** Following must be ordered to make the rear interlock.

1. A MIR-HR or MIR-VR
2. A plate MIR-P for each circuit breaker to be interlocked

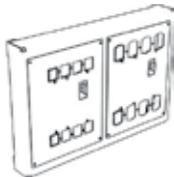


Mechanical interlock between circuit breakers - MIR - to be used with copper spreaders only			
Frame	Description	Ordering code	Unit L.P.(₹)
T5	MIR-HB Horizontal Interlock Frame Unit T4-T5	1SDA054946R1	10,390
	MIR-VB Vertical Interlock Frame Unit T4-T5	1SDA054947R1	
	MIR-P Plate for Interlock Type D T5 400 (F-P-W) or T5 630 (F)+T5 400 (F-P-W) or T5 630 (F)	1SDA054951R1	5,200
	MIR-P Plate for Interlock Type E T5 400 (F-P-W) or T5 630 (F) + T5 630 (P-W)	1SDA054952R1	
	MIR-P Plate for Interlock Type F T5 630 (P-W) + T5 630 (P-W)	1SDA054953R1	
T6	MIR-H Horizontal Mechanical Interlock T6	1SDA060685R1	16,460
	MIR-V Vertical Mechanical Interlock T6	1SDA060686R1	

Note: For interlocking in T4-T5, Order both frame and plate unit

Mechanical interlock with cables between 2 circuit breakers			
Frame	Description	Ordering code	Unit L.P.(₹)
T7-T7M	Cable Kit for InterlockT7-T7M	1SDA062127R1	6,850
	Cable Kit for InterlockT7-T7M with E1-6	1SDA064568R1	7,460
	Plate for Interlock T7-T7M Fixed	1SDA062129R1	27,280
	Plate for Interlock T7-T7M withdrawble	1SDA062131R1	29,190

Note: It is Necessary to order 2 plates and one kit of cables



Tmax accessories



Accessories for electronic trip units			
Frame	Description	Ordering code	Unit L.P.(₹)
XT2 - XT4	EKIP LED METER x LSI-LSIG-M/LRIU XT2-XT4	1SDA068660R1	10,410
	EKIP DISPLAY x LSI-LSIG-M/LRIU XT2-XT4	1SDA068659R1	12,260
	EKIP COM x LSI-LSIG-M/LRIU XT2-XT4 F/P	1SDA068661R1	18,390
	EKIP COM x LSI-LSIG-M/LRIU XT2-XT4 W	1SDA068662R1	
	KIT x CONNECTION Vaux 24Vdc XT2-XT4 F/P	1SDA066980R1	3,780
	KIT x CONNECTION Vaux 24Vdc XT2-XT4 W	1SDA066981R1	4,280
	EKIP multimeter display on front of the switch board	1SDA074192R1	Upon request
T4-T5-T6-T7-XT2-XT4/E1-E6	HMI030 interface on the front of switchgear	1SDA063143R1	33,660

Note:- F/P: Fixed/Plug-in ; W: Withdrawable



Test and configuration unit			
Frame	Description	Ordering code	Unit L.P.(₹)
XT2 - XT4	Ekip TT Trip test unit	1SDA066988R1	6,120



Bracket for fixing onto DIN rail			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1	KIT DIN50022 XT1 3p PLATE DIN	1SDA066652R1	1,530
	KIT DIN50022 XT1 4p PLATE DIN	1SDA066419R1	1,630
	KIT DIN50022 XT1+RC Sel 200 PLATE DIN	1SDA067134R1	1,790
	KIT DIN50022 XT1+RC PLATE DIN	1SDA067135R1	1,950
XT3	KIT DIN50022 XT3 3p PLATE DIN	1SDA066420R1	
	KIT DIN50022 XT3 4p PLATE DIN	1SDA066421R1	2,150
XT2	KIT DIN50022 XT3+RC PLATE DIN	1SDA067139R1	1,530
	KIT DIN50022 XT2-XT4 PLATE DIN	1SDA066653R1	



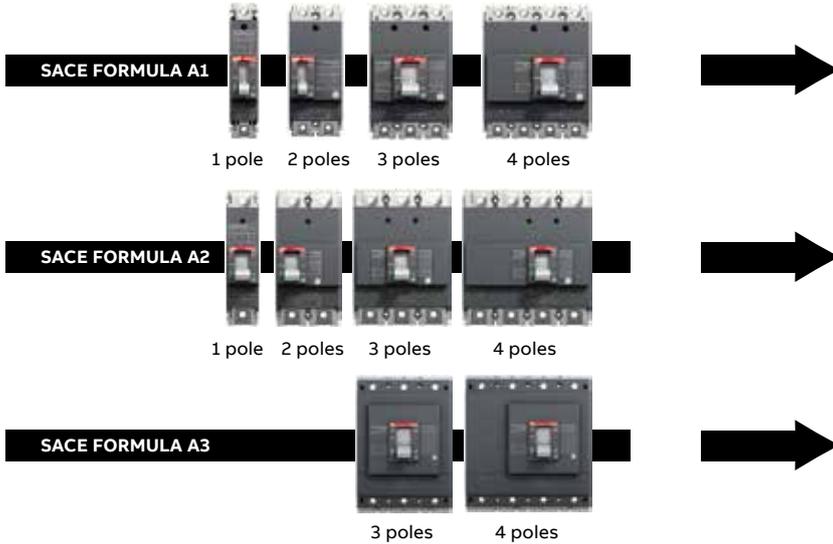
IP54 Protection for transmitted rotary handle			
Frame	Description	Ordering code	Unit L.P.(₹)
XT1....XT4	IP54 Protection for transmitted rotary handle-RHE	1SDA066587R1	2,350

FORMULA moulded case circuit breaker

New low voltage moulded case circuit breakers up to 630A

General characteristics

- Conforms to IEC 60947-2
- Fixed thermal magnetic release throughout the range
- Compact dimensions
- Common range of accessories
- Available in 1P, 2P, 3P & 4 pole versions
- Line-load reversibility
- Suitable for DC application till 250Vdc
- Operation voltage till 550VAC, insulation voltage of 690VAC and impulse voltage of 6KV



FORMULA A1

- Rated current, In 15...125A
- 1, 2, 3, 4 pole versions
- Icu = 10, 18, 25, 36KA

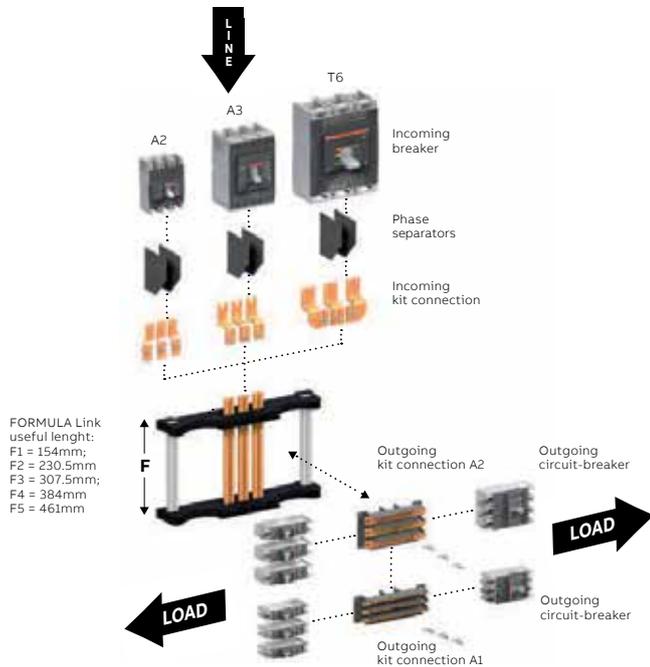
FORMULA A2

- Rated current, In 125...250A
- 1, 2, 3, 4 pole versions
- Icu = 18, 25, 36KA

FORMULA A3

- Rated current, In 320...630A
- 3, 4 pole versions
- Icu = 36, 50KA

FORMULA link system



FORMULA moulded case circuit breaker

- FORMULA link in accordance with IEC 60439 Standard
- FORMULA link is a component of a power distribution system which divides the main power supply over different users
- The FORMULA link is characterised on the supply side by a main circuit-breaker which protects the whole distribution system, and on the load side by smaller sized circuit-breakers, dedicated to the individual users
- FORMULA link assembly for total discrimination between upstream and downstream devices

FORMULA link - Electrical characteristics

FORMULA link frame	[A]	250	400	630/800
Incoming breaker		A2	A3	T6
Outgoing breaker		A1	A1-A2	A1-A2
Rated operational voltage 50/60 Hz	[V]	550AC	550AC	550AC
Rated insulation voltage	[V]	690AC	690AC	690AC
Rated short time withstand current (1s)	[KA]	30	40	40



Fixed thermal and fixed magnetic MCCB

A1 125

TMF

In(A)	Poles	A1A 125 Icu = 10KA		A 1B 125 Icu = 18KA		A 1C 125 Icu = 25KA		A 1N 125 Icu = 36KA	
		Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)	Ordering code	Unit L.P. (₹)
25		1SDA066512R1 ■		1SDA066699R1		1SDA066711R1		1SDA066723R1	
32		1SDA068757R1 ■		1SDA068758R1 ■		1SDA068759R1 ■		1SDA068760R1	
40		1SDA066514R1 ■		1SDA066701R1		1SDA066713R1		1SDA066725R1	
50		1SDA066515R1 ■	2,770	1SDA066702R1	3,720	1SDA066714R1	4,510	1SDA066726R1	5,320
63		1SDA068768R1 ■		1SDA068769R1 ■		1SDA068770R1 ■		1SDA068771R1 ■	
80		1SDA066518R1 ■		1SDA066705R1		1SDA066717R1 ■		1SDA066729R1	
100		1SDA066520R1 ■		1SDA066707R1 ■		1SDA066719R1 ■		1SDA066731R1 ■	
125		1SDA066521R1 ■	3,270	1SDA066708R1 ■	4,290	1SDA066720R1 ■	4,800	1SDA066732R1 ■	5,590
25		1SDA066526R1		1SDA066735R1		1SDA066747R1		1SDA066759R1	
32		1SDA068761R1 ■		1SDA068762R1		1SDA068763R1 ■		1SDA068764R1	
40		1SDA066528R1		1SDA066737R1		1SDA066749R1		1SDA066761R1	
50		1SDA066529R1	3,720	1SDA066738R1	4,730	1SDA066750R1	5,810	1SDA066762R1	6,760
63		1SDA068772R1 ■		1SDA068773R1 ■		1SDA068774R1 ■		1SDA068775R1 ■	
80		1SDA066532R1		1SDA066741R1		1SDA066753R1		1SDA066765R1	
100		1SDA066534R1 ■		1SDA066743R1 ■		1SDA066755R1 ■		1SDA066767R1 ■	
125		1SDA066535R1 ■	3,990	1SDA066744R1 ■	5,010	1SDA066756R1 ■	6,100	1SDA066768R1 ■	7,260

FORMULA moulded case circuit breaker

A2 250

In(A)	Poles
160	3
200	
250	
160	4
200	
250	

A2B 250 Icu = 18KA

Ordering code	Unit L.P.(₹)
1SDA066549R1 ■	7,500
1SDA066551R1 ■	8,780
1SDA066553R1 ■	9,440
1SDA066555R1 ■	9,750
1SDA066557R1 ■	11,180
1SDA066559R1 ■	12,200

A2C 250 Icu = 25KA

Ordering code	Unit L.P.(₹)
1SDA066776R1 ■	8,000
1SDA066778R1 ■	9,440
1SDA066780R1 ■	10,100
1SDA066788R1 ■	10,400
1SDA066790R1 ■	12,070
1SDA066792R1 ■	13,870

A2N 250 Icu = 36KA

Ordering code	Unit L.P.(₹)
1SDA066782R1 ■	8,500
1SDA066784R1 ■	10,750
1SDA066786R1 ■	12,070
1SDA066794R1 ■	11,050
1SDA066796R1 ■	13,870
1SDA066798R1 ■	15,320

A3 400

In(A)	Poles
320	3
400	
320	4
400	

A3N 400 Icu = 36KA

Ordering code	Unit L.P.(₹)
1SDA066560R1	26,120
1SDA066561R1	
1SDA066568R1	33,820
1SDA066569R1	

A3S 400 Icu = 50KA

Ordering code	Unit L.P.(₹)
1SDA066562R1	28,450
1SDA066563R1	
1SDA066570R1	37,000
1SDA066571R1	

A3 630

In(A)	Poles
500	3
630	
500	4
630	

A3N 630 Icu = 36KA

Ordering code	Unit L.P.(₹)
1SDA066564R1	28,450
1SDA066566R1	33,820
1SDA066572R1	36,580
1SDA066574R1	43,110

A3S 630 Icu = 50KA

Ordering code	Unit L.P.(₹)
1SDA066565R1	30,770
1SDA066567R1	37,750
1SDA066573R1	39,180
1SDA066575R1	49,340

Accessories

Terminals			
Front extended spread terminal - ES	Poles	Ordering code	Unit L.P.(₹) 6 pieces
A1	3P	1SDA082242R1 ■	470
A2		1SDA082247R1 ■	1,170

Terminals			
Front extended spread terminal - ES	Poles	Ordering code	Unit L.P.(₹) 8 pieces
A1	4	1SDA082243R1 ■	640
A2		1SDA082248R1 ■	1,320

	Description	A1-A2	
		Ordering code	Unit L.P.(₹)
Rotary handle	RHD - Operating mechanism direct handle	1SDA066154R1 ■	1,260
	RHE - Operating mechanism transmitted handle	1SDA066158R1 ■	1,650
Shunt opening release – SOR-C Cabled version	SOR-C 220...240 VAC - 220...250 VDC	1SDA066137R1	2,040
	SOR-C 380...440 VAC	1SDA066138R1	1,890
Auxiliary contacts – AUX-C Cabled version	AUX-C 1Q + 1SY 250 VAC/DC	1SDA066149R1 ■	1,710
Undervoltage release – UVR-C Cabled version	UVR-C 220...240 VAC - 220...250 VDC	1SDA066146R1	3,900
	UVR-C 380...440 VAC	1SDA066147R1	

■ Stock items

OT manual changeover switches

Manual changeover switches, I-O-II -operation

Supplied with extended shaft and IP 65 pistol type handle



Rated current In [A]	Poles	Description	Ordering code	Unit L.P. (₹)
16	3	OT16F3C	1SYN104816R1001 ■	3,400
25		OT25F3C	1SYN104863R1001 ■	4,290
40		OT40F3C	1SYN104913R1001 ■	4,650
63		OT63F3C	1SYN105338R1001 ■	6,070
80		OT80F3C	1SYN105402R1001	6,680
100		OT100F3C	1SYN105008R1001 ■	8,930
125		OT125F3C	1SYN105037R1001 ■	9,360
16	4	OT16F4C	1SYN104831R1001	4,290
25		OT25F4C	1SYN104877R1001	4,460
40		OT40F4C	1SYN104934R1001 ■	4,920
63		OT63F4C	1SYN105369R1001 ■	6,870
80		OT80F4C	1SYN105418R1001 ■	7,220
100		OT100F4C	1SYN105019R1001	10,630
125		OT125F4C	1SYN105054R1001 ■	10,880
Supplied with bridging bars, extended shaft and IP 65 pistol type handle				
160	3	OT160E03CP	1SYN022772R6510 ■	12,930
200		OT200E03CP	1SYN022771R7520 ■	13,370
250		OT250E03CP	1SYN022771R3450 ■	16,070
315		OT315E03CP	1SYN022772R6780 ■	19,610
400		OT400E03CP	1SYN022771R8500 ■	23,180
630		OT630E03CP	1SYN022785R6050 ■	34,780
800		OT800E03CP	1SYN022785R6300	44,580
1000		OT1000E03CP	1SYN022872R1680 ■	1,20,380
1250		OT1250E03CP	1SYN022872R0790	1,33,750
1600		OT1600E03CP	1SYN022872R1840	1,64,960
2000		OT2000E03CP	1SYN103908R1001	2,49,680
2500	OT2500E03CP	1SYN105615R1001	2,71,970	
3200	OT3200E03CP	1SYN129156R1001	3,92,340	
160	4	OT160E04CP	1SYN022775R9440 ■	15,160
200		OT200E04CP	1SYN022771R7280 ■	15,610
250		OT250E04CP	1SYN022775R4640 ■	17,390
315		OT315E04CP	1SYN022775R7150 ■	21,230
400		OT400E04CP	1SYN022771R8680 ■	24,970
630		OT630E04CP	1SYN022785R6130 ■	42,810
800		OT800E04CP	1SYN022785R6210 ■	51,720
1000		OT1000E04CP	1SYN022872R1500	1,38,210
1250		OT1250E04CP	1SYN022872R1250	1,44,460
1600		OT1600E04CP	1SYN022872R2310	1,78,340
2000		OT2000E04CP	1SYN103912R1001	3,21,000
2500		OT2500E04CP	1SYN103906R1001	3,56,680
3200		OT3200E04CP	1SYN129158R1001	4,68,140

Note: Contact our nearest sales office

1. For 6 pole change over
2. For manual/motorized bypass switch
3. For manual closed transition
4. For wide phase manual change over

OT motorized changeover switches

Changeover switches, motor operation, I-O-II -operation

Supplied with bridging bars and handle



Rated current In [A]	Poles	Description	Ordering code	Unit L.P. (₹)
40	3	OTM40F3CMA230V	1SYN120096R1001	27,940
63		OTM63F3CMA230V	1SYN120095R1001	29,540
80		OTM80F3CMA230V	1SYN120093R1001	32,220
100		OTM100F3CMA230V	1SYN120071R1001	33,830
125		OTM125F3CMA230V	1SYN120070R1001	34,910
160		OTM160E3CM230C	1SYN022845R8610	43,220
200		OTM200E3CM230C	1SYN022845R8960	43,790
250		OTM250E3CM230C	1SYN022845R9260	54,020
315		OTM315E3CM230C	1SYN022847R1210	54,590
400		OTM400E3CM230C	1SYN022847R1630	65,690
630		OTM630E3CM230C	1SYN103567R1001	73,920
800		OTM800E3CM230C	1SYN103570R1001	1,09,880
1000		OTM1000E3CM230C	1SYN112677R1001	1,63,770
1250		OTM1250E3CM230C	1SYN112676R1001	1,79,700
1600		OTM1600E3CM230C	1SYN112678R1001	2,16,090
2000		OTM2000E3CM230C	1SYN112709R1001	3,64,220
2500	OTM2500E3CM230C	1SYN112710R1001	4,00,050	
40	4	OTM40F4CMA230V	1SYN120102R1001	30,080
63		OTM63F4CMA230V	1SYN120101R1001 ■	31,690
80		OTM80F4CMA230V	1SYN120100R1001	33,300
100		OTM100F4CMA230V	1SYN120098R1001 ■	34,380
125		OTM125F4CMA230V	1SYN120097R1001 ■	36,530
160		OTM160E4CM230C	1SYN022848R1510 ■	44,370
200		OTM200E4CM230C	1SYN022846R1590 ■	44,590
250		OTM250E4CM230C	1SYN022846R1910 ■	54,590
315		OTM315E4CM230C	1SYN022847R2870 ■	55,730
400		OTM400E4CM230C	1SYN022847R3250 ■	69,950
630		OTM630E4CM230C	1SYN022873R1990 ■	75,620
800		OTM800E4CM230C	1SYN022872R8340 ■	1,13,720
1000		OTM1000E4CM230C	1SYN112703R1001	1,64,910
1250		OTM1250E4CM230C	1SYN112702R1001	1,80,840
1600		OTM1600E4CM230C	1SYN112704R1001	2,21,770
2000		OTM2000E4CM230C	1SYN112712R1001	3,94,060
2500	OTM2500E4CM230C	1SYN112713R1001	4,29,890	

Note:

Motor voltage Ue 110-240 V AC/DC (OTM40...125A)

Motor voltage Ue 220-240 V AC (OTM160...2500A)

OMD control units can be purchased separately for their motorized changeover switches in order to build an ATS by themselves. Contact nearest sales office for making selection

Contact our nearest sales office

- For motor voltage Ue 110...125 V AC/DC (160A-2500A)
- For motor voltage Ue = 48V DC (160A-2500A)

Compact ATS NEW

Automatic transfer switches, I - O - II operation

Supplied with bridging bars and direct mounted handle

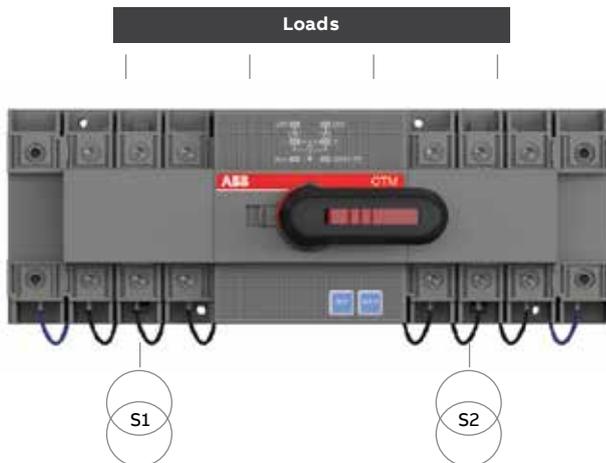


Rated current In [A]	Pole	Description	Ordering code	Unit L.P.(₹)
63	3	OTM63F3C20D400C	1SYN151423R1001	40,040
63		OTM63F3C21D400C	1SYN151424R1001	57,860
125		OTM125F3C20D400C	1SYN151419R1001	44,890
125		OTM125F3C21D400C	1SYN151420R1001	65,420

Rated current In [A]	Pole	Description	Ordering code	Unit L.P.(₹)
40	4	OTM40F4C20D400C	1SYN151252R1001	39,820
40		OTM40F4C21D400C	1SYN151253R1001	60,490
40		OTM40F4CB21D400C	1SYN150580R1001	60,490
63		OTM63F4C20D400C	1SYN151254R1001	41,910
63		OTM63F4C21D400C	1SYN151255R1001	63,320
63		OTM63F4CB21D400C	1SYN150586R1001	63,320
125		OTM125F4C20D400C	1SYN151250R1001	49,380
125		OTM125F4C21D400C	1SYN151251R1001	71,530
125		OTM125F4CB21D230C	1SYN150574R1001	71,530

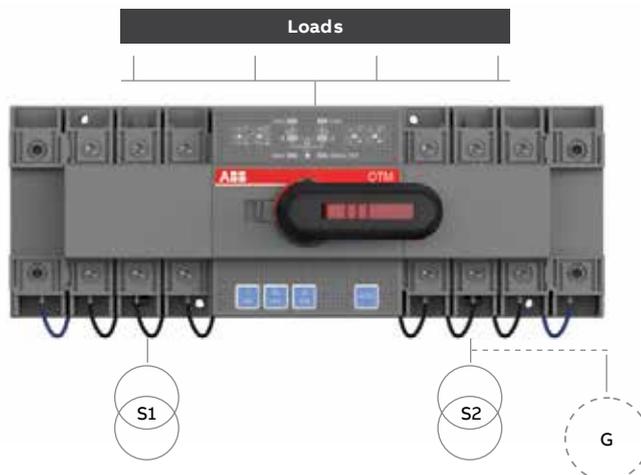
Note:

- For 2 pole requirement contact nearest sales office



OTM_C20D:

- For Network/Network application
- Fixed version with pre-defined delay times and voltage thresholds



OTM_C21D

- For Network/Network and Network/Genset applications
- Adjustable version with configurable transfer and back-switching delays
Adjustable over and under-voltage thresholds

The world's first true ATS is here

Introducing TruONE.

A critical breakthrough for critical power



WHAT MAKES TRUONE® UNIQUE

- Overlapping neutral*
- One unit, One wire – just like an ATS should be
- Below 50 ms in-phase transfer
- Readily available emergency manual operation
- IEC/UL1008 approved
- Performance tested beyond standard requirements
- Variants with and without stable OFF-position
- ABB Ability™: EDCS for cloud-based services
- Ekip Com modules for uniform platform
- Configuration via Ekip Connect 3
- Predictive maintenance
- Modular structure to simplify service

*in UL version only

OT automatic transfer switches

Automatic transfer switches, I - O - II operation

Supplied with bridging bars and handle



Automatic operation, equipped with OMD300 controller unit with integrated dual power supply				
Rated current In [A]	Poles	Description	Ordering code	Unit L.P.(₹)
160	4	OTM160E4C3D230C	1SYN106305R1001 ■	99,350
200		OTM200E4C3D230C	1SYN106309R1001	1,02,690
250		OTM250E4C3D230C	1SYN106313R1001	1,06,040
315		OTM315E4C3D230C	1SYN106317R1001	1,11,070
400		OTM400E4C3D230C	1SYN106318R1001 ■	1,17,200
630		OTM630E4C3D230C	1SYN108726R1001	1,56,270
800		OTM800E4C3D230C	1SYN108728R1001	2,06,500
1000		OTM1000E4C3D230C	1SYN112852R1001	2,23,250
1250		OTM1250E4C3D230C	1SYN112851R1001	2,56,730
1600		OTM1600E4C3D230C	1SYN112848R1001	3,34,860



Automatic operation, equipped with OMD800 controller unit with display				
Rated current In [A]	Poles	Description	Ordering code	Unit L.P.(₹)
160	4	OTM160E4C8D230C	1SYN101020R1001	1,33,940
200		OTM200E4C8D230C	1SYN101021R1001	1,39,530
250		OTM250E4C8D230C	1SYN101022R1001	1,45,110
315		OTM315E4C8D230C	1SYN101063R1001	1,50,690
400		OTM400E4C8D230C	1SYN101064R1001	1,67,430
630		OTM630E4C8D230C	1SYN108453R1001	1,84,190
800		OTM800E4C8D230C	1SYN108455R1001	2,23,250
1000		OTM1000E4C8D230C	1SYN112861R1001	2,84,630
1250		OTM1250E4C8D230C	1SYN112864R1001	3,12,540
1600		OTM1600E4C8D230C	1SYN112867R1001	3,90,670

Note:

- Motor voltage Ue 220-240 V AC
- For 3 pole requirement contact the nearest sales office
- For OMD800, consider accessory ODPS for dual power supply

Accessories for changeovers (manual, motorized, ATS)

Shaft



Frame	Description	Ordering code	Unit L.P.(₹)
OT16...125F_C	OXPGX170	1SCA108224R1001	330
OT160...250_C	OXPG6x161	1SCA022067R176 ■	330
OT315...400_C	OXPG12x166	1SCA022325R671	520
OT630...3200_C	OXPG12x185	1SCA022325R710 ■	620

Handle



Frame	Description	Ordering code	Unit L.P.(₹)
OT16...125F_C	OHB45J6E311	1SCA022817R2130 ■	2,120
OT160...250_C	OHB65J6E011	1SCA022383R2480 ■	2,350
OT315...400_C	OHB95J12E011	1SCA022621R0760 ■	2,680
OT630...800_C	OHB125J12E011	1SCA022589R3340 ■	2,970
OT1000...3200_C	OHB200J12PE011	1SCA022873R4230	6,500

Auxiliary contacts



Frame	Contact functions	Installation side	Description	Ordering code	Unit L.P.(₹)
OT16...125F_C OTM40...125	1NO	Right	OA1G10	1SCA022353R497	530
	1NC	Right	OA8G01	1SCA022744R224 ■	950
	1NO	Left	OA7G10	1SCA022673R114 ■	840
	1NC	Left	OA1G01	1SCA022353R489	530
OT160...3200 OTM160...2500	1NO	Right	OA1G10	1SCA022353R4970	530
	1NC	Right	OA3G01	1SCA022456R7410	590

Phase barriers

3-pole change-overs need 8 barriers and 4-pole change-overs need 12 barriers for full protection.



Frame	Poles	Description	Ordering code	Unit L.P.(₹)
OT160...800 OTM160...800	3	PB100 low	1SDA054970R1	910
	4	PB100 low	1SDA054971R1	1,330

Basic ATS controller for motorised change over



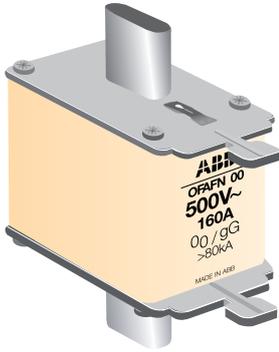
Frame	Description	Ordering code	Unit L.P.(₹)
40...2500A	ODPS230	1SCA122946R1001 ■	12,270

Note: Contact our nearest sales office for more information

OFAF HRC fuse links and base, DIN-type

DIN -type fuse links, gG, 500 V, 80 kA

The ordering code includes one fuse link, the delivery batch is according to the column.



Fuse size	Rated current In (A)	Description	Delivery batch [pcs]	Ordering code	Unit L.P. (₹)
000	2	OFAFN000GG2	6	1SCA107747R1001 ■	210
	6	OFAFN000GG6	6	1SCA107748R1001 ■	
	10	OFAFN000GG10	6	1SCA107749R1001 ■	
	16	OFAFN000GG16	6	1SCA107750R1001 ■	
	20	OFAFN000GG20	6	1SCA107751R1001 ■	
	25	OFAFN000GG25	6	1SCA107751R1002 ■	
	32	OFAFN000GG32	6	1SCA107752R1001 ■	
00	63	OFAFN000GG63	6	1SCA107753R1001 ■	490
	6	OFAFN00GG6	6	1SCA107754R1001	
	10	OFAFN00GG10	6	1SCA107755R1001	
	16	OFAFN00GG16	6	1SCA107756R1001	
	20	OFAFN00GG20	6	1SCA107757R1001	
	25	OFAFN00GG25	6	1SCA107758R1001	
	32	OFAFN00GG32	6	1SCA107759R1001 ■	
	50	OFAFN00GG50	6	1SCA107760R1001 ■	
	63	OFAFN00GG63	6	1SCA107761R1001 ■	
	80	OFAFN00GG80	6	1SCA107762R1001 ■	
	100	OFAFN00GG100	6	1SCA107763R1001 ■	
0	125	OFAFN00GG125	6	1SCA107764R1001 ■	950
	160	OFAFN00GG160	6	1SCA107765R1001 ■	
	160	OFAF0H160	3	1SCA022627R3170	
1	200	OFAF0H200	3	1SCA022629R5140 ■	710
	32	OFAFN1GG32	6	1SCA107766R1001	
	50	OFAFN1GG50	6	1SCA107767R1001	
	63	OFAFN1GG63	6	1SCA107768R1001	
	80	OFAFN1GG80	6	1SCA107769R1001	
	100	OFAFN1GG100	6	1SCA107770R1001	
	125	OFAFN1GG125	6	1SCA107771R1001	
	160	OFAFN1GG160	6	1SCA107772R1001 ■	
2	200	OFAFN1GG200	3	1SCA107773R1001 ■	1,050
	250	OFAFN1GG250	3	1SCA107774R1001 ■	
	100	OFAFN2GG100	3	1SCA107775R1001	
	125	OFAFN2GG125	3	1SCA107776R1001	
	250	OFAFN2GG250	3	1SCA107778R1001	
3	315	OFAFN2GG315	3	1SCA107779R1001 ■	1,620
	400	OFAFN2GG400	3	1SCA107780R1001 ■	
	315	OFAFN3GG315	3	1SCA107781R1001	
	500	OFAFN3GG500	3	1SCA107783R1001 ■	
4	630	OFAFN3GG630	3	1SCA107784R1001 ■	1,620
	800	OFAFN3GG800	3	1SCA107785R1001 ■	
4	1250	OFAF4H1250	1	1SCA022627R7830	Upon request
4a	1250	OFAF4AH1250	1	1SCA022637R4360	



Fuse size	Rated current In (A)	Description	Ordering code	Unit L.P. (₹)
00	160	Fuse Base - Din type	1SCA833001R2001 ■	400
1	250		1SCA833001R2002 ■	810
2	400		1SCA833001R2003 ■	1,380
3	630		1SCA833001R2004 ■	1,840

■ Stock items

OFF HRC fuse links and base, BS-type

BS -type fuse links, gG, 415 V, 80 kA

The type code includes one fuse link, but the delivery batch is according to the column.



Fuse size	Rated current In (A)	Description	Delivery batch [pcs]	Ordering code	Unit L.P. (₹)
Offset blade tag fuse link					
F1	2	OFFNF1GG2	10	1SCA107786R1001 ■	70
	4	OFFNF1GG4	10	1SCA107787R1001 ■	
	6	OFFNF1GG6	10	1SCA107788R1001 ■	
	10	OFFNF1GG10	10	1SCA107789R1001 ■	
	16	OFFNF1GG16	10	1SCA107790R1001 ■	
	20	OFFNF1GG20	10	1SCA107791R1001 ■	
	25	OFFNF1GG25	10	1SCA107792R1001 ■	
	32	OFFNF1GG32	10	1SCA107793R1001 ■	80
Offset bolted tag fuse link					
A2	6	OFFNA2GG6	10	1SCA107795R1001	100
	10	OFFNA2GG10	10	1SCA107796R1001	
	16	OFFNA2GG16	10	1SCA107798R1001	
	20	OFFNA2GG20	10	1SCA107827R1001	
	25	OFFNA2GG25	10	1SCA107800R1001	
A3	32	OFFNA2GG32	10	1SCA107801R1001 ■	130
	40	OFFNA3GG40	10	1SCA107803R1001 ■	
	50	OFFNA3GG50	10	1SCA107804R1001	
A4	63	OFFNA3GG63	10	1SCA107805R1001 ■	270
	50	OFFNA4GG50	10	1SCA107806R1001	
	63	OFFNA4GG63	10	1SCA107807R1001	
	80	OFFNA4GG80	10	1SCA107808R1001	
	100	OFFNA4GG100	10	1SCA107809R1001 ■	
	125	OFFNA4GG125	10	1SCA107810R1001 ■	
Central bolted tag fuse link					
B1	50	OFFNB1GG50	10	1SCA107811R1001	320
	63	OFFNB1GG63	10	1SCA107812R1001	
	80	OFFNB1GG80	10	1SCA107813R1001	
	100	OFFNB1GG100	10	1SCA107814R1001	
B2	125	OFFNB2GG125	10	1SCA107816R1001	480
	160	OFFNB2GG160	5	1SCA107817R1001 ■	
	200	OFFNB2GG200	5	1SCA107818R1001 ■	
B3	250	OFFNB3GG250	1	1SCA107819R1001 ■	690
	315	OFFNB3GG315	1	1SCA107820R1001	
B4	400	OFFNB4GG400	1	1SCA107822R1001	1,210
C1	400	OFFNC1GG400	1	1SCA107823R1001	1,840
C2	500	OFFNC2GG500	1	1SCA107824R1001	2,080
C2	630	OFFNC2GG630	1	1SCA107825R1001	2,080
C3	800	OFFNC3GG800	1	1SCA107826R1001	2,630



Fuse size	Rated current In (A)	Description	Delivery batch [pcs]	Ordering code	Unit L.P. (₹)
F1	20	Control Fuse Base	100	1SYN833001R2005 ■	140
	32		100	1SYN833001R2009 ■	170

■ Stock items



Powerful light switching made easy **NEW**

ESB and EN installation contactors

ABB's hum-free installation contactor designs offer a wide range of ratings from 16 A to 100 A. With an innovative AC/DC coil design that eliminates hum, a broad selection of common accessories as well as manual and automatic versions, ESB..N contactors cover all your needs in both domestic and residential applications. Find out more at abb.com/lowvoltage

ESB and EN Installation contactors **NEW**



Hum-free operation



Tool-free to save time



More choice,
less inventory



Comprehensive solution



Optimum interface



Easy to install



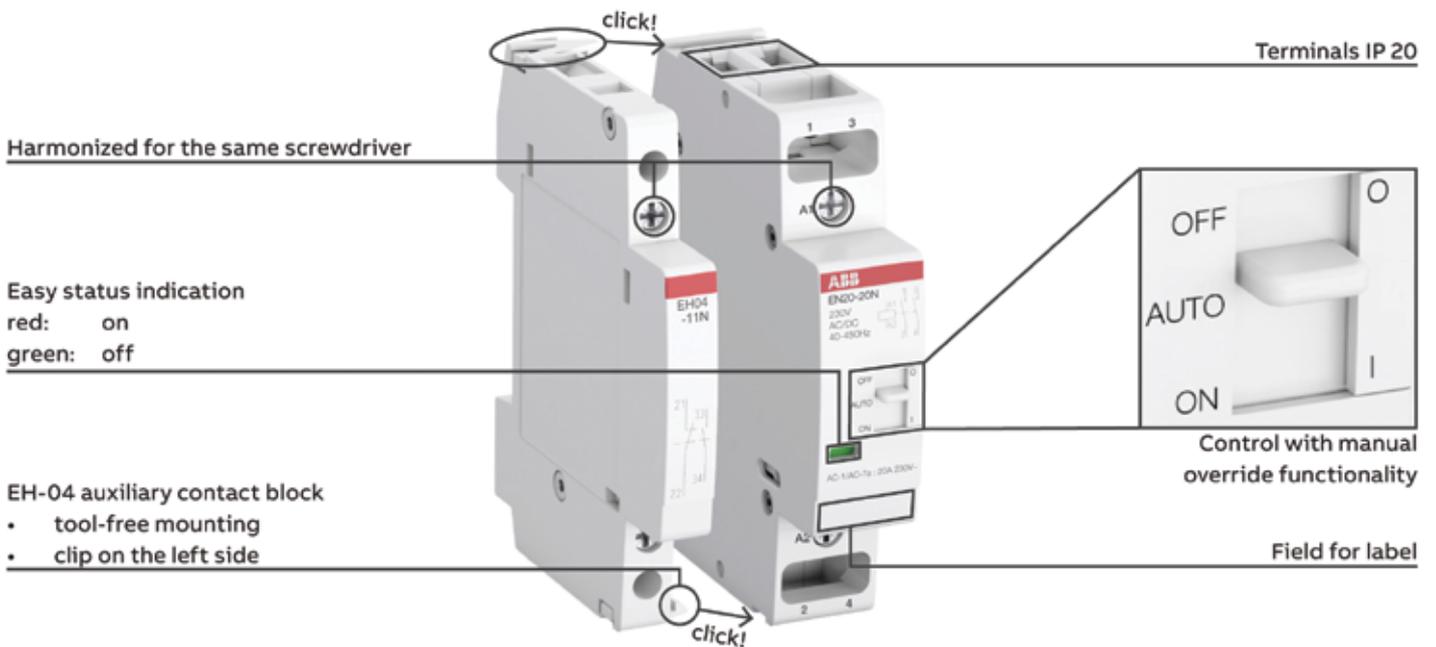
Group mounting
saves space



Global
availability



Easy identification



ESB and EN Installation contactors NEW

ABB's installation contactor range comes with a host of features to make installation and maintenance easier. A mechanical indicator shows the status in green or red color to make system diagnostics quicker. Some speciality types also feature a manual override functionality with a toggle switch providing independent control. Accessories such as auxiliaries, space holders, as well as safety covers can be mounted tool-free onto the contactor.

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ VAC / DC	Type	Ordering code	Unit L.P.(₹)
	1	24	ESB16-20N-01	1SBE11111R0120	Upon request
	1	230	ESB16-20N-06	1SBE11111R0620	
	1	24	ESB16-02N-01	1SBE11111R0102	
	1	230	ESB16-02N-06	1SBE11111R0602	
	1	24	ESB16-11N-01	1SBE11111R0111	
	1	230	ESB16-11N-06	1SBE11111R0611	

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ VAC / DC	Type	Ordering code	Unit L.P.(₹)
	1	24	ESB20-20N-01	1SBE12111R0120	Upon request
	1	230	ESB20-20N-06	1SBE12111R0620	
	1	24	ESB20-02N-01	1SBE12111R0102	
	1	230	ESB20-02N-06	1SBE12111R0602	
	1	24	ESB20-11N-01	1SBE12111R0111	
	1	230	ESB20-11N-06	1SBE12111R0611	

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	2	24	ESB25-40N-01	1SAE23111R0140	Upon request
		230 ... 240	ESB25-40N-06	1SAE23111R0640	
	2	24	ESB25-04N-01	1SAE23111R0104	
		230 ... 240	ESB25-04N-06	1SAE23111R0604	
	2	24	ESB25-22N-01	1SAE23111R0122	
		230 ... 240	ESB25-22N-06	1SAE23111R0622	
	2	24	ESB25-31N-01	1SAE23111R0131	
		230 ... 240	ESB25-31N-06	1SAE23111R0631	
	2	24	ESB25-13N-01	1SAE23111R0113	
		230 ... 240	ESB25-13N-06	1SAE23111R0613	

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	3	24	ESB40-40N-01	1SAE34111R0140	Upon request
		230	ESB40-40N-06	1SAE34111R0640	
	3	24	ESB40-22N-01	1SAE34111R0122	
		230	ESB40-22N-06	1SAE34111R0622	
	3	24	ESB40-31N-01	1SAE34111R0131	
		230	ESB40-31N-06	1SAE34111R0631	
	3	24	ESB40-30N-01	1SAE34111R0130	
		230	ESB40-30N-06	1SAE34111R0630	
	3	24	ESB40-20N-01	1SAE34111R0120	
		230	ESB40-20N-06	1SAE34111R0620	

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	3	24	ESB63-40N-01	1SAE35111R0140	Upon request
		230	ESB63-40N-06	1SAE35111R0640	
	3	230	ESB63-31N-06	1SAE35111R0631	
		230	ESB63-30N-06	1SAE35111R0630	
	3	24	ESB63-20N-01	1SAE35111R0120	
		230	ESB63-20N-06	1SAE35111R0620	
	3	230	ESB63-11N-06	1SAE35111R0611	

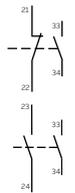
Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	6	24	ESB100-40N-01	1SAE66111R0140	Upon request
		230	ESB100-40N-06	1SAE66111R0640	
	3	24	ESB100-20N-01	1SAE36111R0120	
		230	ESB100-20N-06	1SAE36111R0620	

ESB and EN Installation contactors **NEW**

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	1	24	EN20-20N-01	1SBE122111R0120	Upon request
		230	EN20-20N-06	1SBE122111R0620	

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	2	24	EN25-40N-01	1SAE232111R0140	Upon request
		230 ... 240	EN25-40N-06	1SAE232111R0640	
	2	24	EN25-31N-01	1SAE232111R0131	Upon request
		230 ... 240	EN25-31N-06	1SAE232111R0631	
	2	24	EN25-30N-06	1SAE232111R0630	Upon request
		230 ... 240	EN20-20N-06	1SBE122111R0620	

Main contacts	Width in number of modular spacings	Rated control circuit voltage ⁽¹⁾ V AC / DC	Type	Ordering code	Unit L.P.(₹)
	3	24	EN40-40N-01	1SAE342111R0140	Upon request
		230	EN40-40N-06	1SAE342111R0640	
	3	24	EN40-31N-01	1SAE342111R0131	Upon request
		230	EN40-31N-06	1SAE342111R0631	
	3	230	EN40-30N-06	1SAE342111R0630	Upon request
		230	EN40-20N-06	1SAE342111R0620	

Auxiliary contact blocks				
Auxiliary contacts	Suitable for	Type	Ordering code	Unit L.P.(₹)
Single packaging				
	ESB16..N, ESB20..N, ESB25..N, ESB40..N, ESB63..N, ESB100..N, EN20..N, EN25..N, EN40..N	EH04-11N	1SAE901901R1011	Upon request
		EH04-20N	1SAE901901R1020	

Distant piece

Suitable for	Type	Ordering code	Unit L.P.(₹)
Single packaging			
ESB25..N, ESB40..N, ESB63..N, EN25..N, EN40..N, ESB100..N, EN100..N	ESB-DIS (1)	GHE3201902R0001	

Mini contactors



Mini contactors with screw connection: 3 pole - AC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts		Type Code Reference	Order Code	Unit L.P.(₹)
	Amps	hP	kW					
16A	9	5.5	4	1NO	-	B06-30-10 **	GJL1211001R□10□ ■	990
16A	9	5.5	4	-	1NC	B06-30-01 **	GJL1211001R□01□ ■	
20A	12	7.5	5.5	1NO	-	B07-30-10 **	GJL1311001R□10□ ■	1,090
20A	12	7.5	5.5	-	1NC	B07-30-01 **	GJL1311001R□01□ ■	

Complete the contactor type code by replacing ** with desired coil voltage

Mini contactors with screw connection: 3 pole - DC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts		Type Code Reference	Order Code	Unit L.P.(₹)
	Amps	hP	kW					
16A	9	5.5	4	1NO	-	BC6-30-10 **	GJL1213001R□10□ ■	1,380
16A	9	5.5	4	-	1NC	BC6-30-01 **	GJL1213001R□01□ ■	
20A	12	7.5	5.5	1NO	-	BC7-30-10 **	GJL1313001R□10□ ■	1,440
20A	12	7.5	5.5	-	1NC	BC7-30-01 **	GJL1313001R□01□ ■	

Mini reversing contactors with screw connection: 3 pole - AC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts		Type Code Reference	Order Code	Unit L.P.(₹)
	Amps	hP	kW					
16A	9	5.5	4	1NO	-	VB06-30-10 **	GJ 1211901R□10 □	2,870
16A	9	5.5	4	-	1NC	VB06-30-01 **	GJL1211901R□01 □	2,870
20A	12	7.5	5.5	1NO	-	VB07-30-10 **	GJL1311901R□10 □	3,030
20A	12	7.5	5.5	-	1NC	VB07-30-01 **	GJL1311901R□01 □	3,030

Complete the contactor type code by replacing ** with desired coil voltage

Mini reversing contactors with screw connection: 3 pole - DC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts		Type Code Reference	Order Code	Unit L.P.(₹)
	Amps	hP	kW					
16A	9	5.5	4	1NO	-	VBC6-30-10 **	GJL1213901R□10□	2,450
16A	9	5.5	4	-	1NC	VBC6-30-01 **	GJL1213901R□01□ ■	2,450
20A	12	7.5	5.5	1NO	-	VBC7-30-10 **	GJL1313901R□10□	3,280
20A	12	7.5	5.5	-	1NC	VBC7-30-01 **	GJL1313901R□01□	3,280

Complete the contactor type code by replacing ** with desired coil voltage

Mini contactors are also available in 4 pole (4NO / 2NO + 2NC)

Mini auxiliary contactor 4 pole with screw connection

Control Circuit	Contact Configuration		Type Code Reference	Order Code	Unit L.P.(₹)
	NO	NC			
AC	2NO	2NC	K6-22Z**	GJH121 1001 R□22□	1,100
	3NO	1NC	K6-31Z **	GJH121 1001 R□31□ ■	
	4NO	-	K6-40E **	GJH121 1001 R□40□	
DC	2NO	2NC	KC6-22Z**	GJH121 3001 R□22□ ■	1,370
	3NO	1NC	KC6-31Z **	GJH121 3001 R□31□	
	4NO	-	KC6-40E **	GJ 121 3001 R□40□	

Complete the contactor type code by replacing ** with desired coil voltage

Coil voltage for mini contactors

AC		DC	
50-60Hz	Code	DC V	Code
24	0 ... 1 ■	24	0 ... 1 ■
48	0 ... 3	110 ... 125	0 ... 4 ■
110 ... 127	8 ... 4 ■	220 ... 240	0 ... 5
220 ... 240	8 ... 0 ■		
380 ... 415	8 ... 5		

Auxiliary contact blocks for mini contactors, 4 A, 240 V AC-15 / 2.5 A, 24V DC-13

Ordering details

For contactor types	Auxiliary contacts	Type	Order Code	Unit L.P.(₹)
Front mounted instantaneous auxiliary contact blocks 1)				
B6-, B7-30-10, BC6-, BC7-30-10	1NO + 1NC	CAF6-11M	GJL1201330R0003	570
VB6, VB7, VBC6, VBC7, VB6A, VB7A	2NO	CAF6-20M	GJL1201330R0007	
VBC6A, VBC7A	2NC	CAF6-02M	GJL1201330R0011	
Side mounted instantaneous auxiliary contact block 1)				
B6-, B7-30-10, BC6-, BC7-30-10	1NO + 1NC	CA6-11M	GJL1201317R0003	570

■ Stock items

DOL and star delta starters

Direct on line starter:

Rating at 415V 50Hz		Back - up Fuse rating (A)	Type Code Reference	Order Code	Unit L.P.(₹)
HP	kW				
0.25	0.18	4A	MA-0.25 **	1SYN140318R□□25	3,120
0.50	0.37	4A	MA-0.50 **	1SYN140318R□□05	3,120
0.75	0.52	6A	MA-0.75 **	1SYN140318R□□75	3,120
1.00	0.75	6A	MA-1.00 **	1SYN140318R□□10 ■	3,120
1.50	1.10	10A	MA-1.50 **	1SYN140318R□□15	3,120
2.00	1.50	10A	MA-2.00 **	1SYN140318R□□20 ■	3,120
3.00	2.20	16A	MA-3.00 **	1SYN140318R□□30 ■	3,120
5.00	3.70	25A	MA-5.00 **	1SYN140318R□□50 ■	3,120
7.50	5.50	32A	MA-7.50 **	1SYN160318R□□75 ■	3,120
10.00	7.50	32A	MA-10.00 **	1SYN180318R□□10 ■	3,380

Fully automatic Star Delta starter:

HP rating at 415V	Type Code Reference	Order Code	Unit L.P.(₹)
12.5	SDA-12.5 **	1SYN184322R□□00 ■	11,640
15	SDA-15 **	1SYN242322R□□00 ■	12,650
20	SDA- 20 **	1SYN244322R□□00 ■	14,680
25	SDA-25 **	1SYN246322R□□00	15,280
30	SDA-30 **	1SYN282322R□□00	18,470
35	SDA-35 **	1SYN284322R□□00	20,490
40	SDA-40 **	1SYN322322R□□00	24,870
50	SDA-50 **	1SYN352342R□□00	29,850
60	SDA-60 **	1SYN372342R□□00	38,400
75	SDA-75 **	1SYN412342R□□00	45,020

Complete the starter type code by replacing the ** with the desired coil voltage.

Voltage	Code
□□□	□□
220 ... 230 V coil	3 8
400 ... 415 V coil	8 6 ■

DOL Starter with IP65 enclosure



4KE 7.5KW 415V, IP65 compact plastic enclosure with double insulation



Description	Order code	Unit L.P.(₹)
DRAS09-29P 4.0 kW 415V, 415V coil	1SBK104035R2900	5,460
DRAS12-29P 5.5 kW 415V, 415V coil	1SBK114035R2900	5,870
DRAS16-29P 7.5 kW 415V, 415V coil	1SBK124035R2900	7,890

Note: T16 OLR to be ordered separately. Plz refer page no. 96 for reference.

■ Stock items

Installation products

Product brands overview

The acquisition of Thomas & Betts advances ABB's strategy of expanding its electrification products division into new geographies, sectors and products. The combination of Thomas & Betts' electrical components and ABB's low voltage protection, control and measurement products offer more of the components you need every day than any other single manufacturer in the world.

Our focus is on improving your business performance by providing practical, reliable electrical products and services that solve everyday problems in:

Wire & cable management -

cable ties, wiring ducts, accessories.

Connectivity & grounding -

connectors, terminals, earthing, lightning protection

Cable protection systems -

rigid and flexible conduit & fittings

Lighting & systems -

emergency lighting, lighting & battery systems

Explosion protection -

IECex, UL, CSA lighting, boxes and conduit systems

Cable accessories and apparatus -

MV and HV switches, cable accessories

Markets we protect & connect together.

1 Renewables

Wind, solar, water & bio

2 Utilities

Power generation, transmission & distribution, telecom & datacentre, water & waste

3 Extraction

Oil, gas, mining

4 Transportation & Infrastructure

Rail, road, marine, aerospace, rail track, motorways, waterways

5 Commercial & Institutional

Office & storage, retail & leisure, healthcare & education, Government

6 Residential

Residential towers & apartment blocks, housing development projects, HMOs & university accommodation

7 Industry processing chemicals, pharma, minerals, metals, materials, food & beverage, agriculture

8 Industry assembling & OEM

OEM equipment & devices, machinery, automation, robotics

Wire & cable management - Energy & data connection	Cable protection systems - Energy & data protection	Connectivity & grounding - Critical process protection	Lighting - Safety & explosion proof
 <p>Ty-Rap®</p> <p>Premium cable ties</p>	 <p>Adaptaflex</p> <p>Flexible conduit systems for critical power & data protection</p>	 <p>fursee</p> <p>Earthing & lightning protection</p>	 <p>EMERGI-LITE</p> <p>Emergency lighting systems</p>
 <p>Ty-Met™</p> <p>Stainless steel cable ties</p>	 <p>KOPEX™</p> <p>Flexible conduit systems for hazardous areas</p>	 <p>elastimold</p> <p>Underground cable protection accessories</p>	 <p>EMERGI-LITE</p> <p>Emergency safety systems</p>
 <p>T&B Cable Tray</p> <p>Cable tray, ladder, support systems & wire duct</p>	 <p>PMA</p> <p>Cable protection systems</p>	 <p>JOSLYN</p> <p>Overhead products for electrical power systems</p>	 <p>DTS</p> <p>Explosion-proof lighting & emergency lighting</p>
 <p>E-Klips®</p> <p>Electrical & mechanical steel spring fasteners</p>	 <p>Harnessflex</p> <p>Automotive wiring harness protection</p>	 <p>Spec-Kon®</p> <p>Solderless crimp connectors</p>	 <p>DTS</p> <p>Custom built control panels for hazardous areas</p>

Wire and cable management

Fastening products

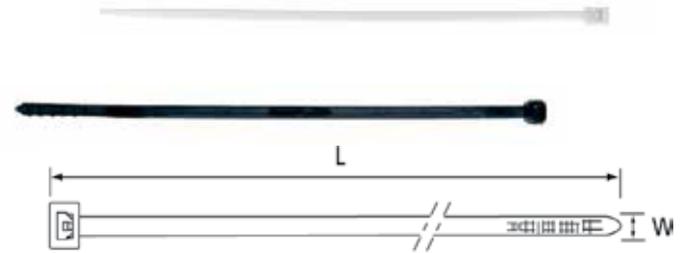
Thomas & Betts (today a member of the ABB Group) invented the Ty-Rap® cable tie to solve the problem of harnessing the hundreds of wires used in manufacturing aircraft and revolutionised the world of fastening. Today, the Ty-Rap® brand remains the benchmark for excellence and innovation in wire management.

ABB's broad offering of cable ties is designed to make the task of fastening, bundling, clamping and managing wires easier and quicker for industrial applications, construction, communications, utility and OEM professionals as well as home improvement specialists and do-it-yourself enthusiasts. When strength, aesthetics, reliability and performance are required, knowledgeable professionals turn to the original and the best source for cable ties and accessories. The corrosion-proof, non-magnetic stainless steel locking device inside the tie head guarantees the strongest and most durable locking you will ever find on the market. Ty-Rap® can be used in the most adverse conditions: humidity, heat, cold,... Engineered for labour savings and high performance, Ty-Rap® cable ties are commonly used in a variety of applications. When you choose a Ty-Rap® cable tie, you can count on quality, performance and innovation to make your work easier.



Spec-Kon® general purpose cable ties

The right cable tie for the right application Characteristics A complete range of cable ties for indoor and outdoor Available in two different packaging quantities Available in different lengths and tensile strengths Technical Information Material: Polyamide 6.6; Halogen-free, Silicone-free Temperature range: -40°C to +85°C Colour: Natural and black (Type code with 'X' is black colour and UV resistant) Flammability rating: UL 94 V-2



Natural colour - indoor use

Type code	Ordering Code	Description	UOM	MOQ	SPQ	Unit M.R.P.
SKT100-80	7TCA300040R0000	100 mm length 2.5 mm width large pack	EA	10000	1000	0.66
SKT100-80-100	7TCA300020R0000	100 mm length 2.5 mm width small pack	EA	10000	100	0.81
SKT160-80	7TCA300040R0002	160 mm length 2.5 mm width large pack	EA	10000	1000	1.11
SKT160-80-100	7TCA300020R0002	160 mm length 2.5 mm width small pack	EA	10000	100	1.30
SKT200-180	7TCA300120R0001	200 mm length 2.5 mm width large pack	EA	10000	1000	1.73
SKT200-180-100	7TCA300100R0001	200 mm length 2.5 mm width small pack	EA	10000	100	1.85
SKT300-180	7TCA300120R0002	300 mm length 3.6 mm width large pack	EA	12000	1000	2.79
SKT300-180-100	7TCA300100R0002	300 mm length 3.6 mm width small pack	EA	12000	100	2.98
SKT370-180	7TCA300120R0003	370 mm length 3.6 mm width large pack	EA	12000	1000	4.45
SKT370-180-100	7TCA300100R0003	370 mm length 3.6 mm width small pack	EA	12000	100	4.62
SKT450-540-50	7TCA300260R0003	450 mm length 7.6 mm width small pack	EA	1000	50	13.64
SKT750-540-50	7TCA300260R0002	750 mm length 7.6 mm width small pack	EA	1500	50	22.74
SKT912-780-50	7TCA300340R0001	912 mm length 9 mm width small pack	EA	500	50	33.44

Black colour - indoor & outdoor use

Type code	Ordering Code	Description	UOM	MOQ	SPQ	Unit M.R.P.
SKT100-80X	7TCA300080R0000	100 mm length 2.5 mm width large pack	EA	10000	1000	0.78
SKT100-80X-100	7TCA300060R0000	100 mm length 2.5 mm width small pack	EA	10000	100	0.86
SKT160-80X	7TCA300080R0002	160 mm length 2.5 mm width large pack	EA	10000	1000	1.25
SKT160-80X-100	7TCA300060R0002	160 mm length 2.5 mm width small pack	EA	10000	100	1.30
SKT200-180X	7TCA300160R0001	200 mm length 2.5 mm width large pack	EA	10000	1000	1.81
SKT200-180X-100	7TCA300140R0001	200 mm length 2.5 mm width small pack	EA	10000	100	1.93
SKT300-180X	7TCA300160R0002	300 mm length 3.6 mm width large pack	EA	12000	1000	2.78
SKT300-180X-100	7TCA300140R0002	300 mm length 3.6 mm width small pack	EA	12000	100	3.01
SKT370-180X	7TCA300160R0003	370 mm length 3.6 mm width large pack	EA	12000	1000	4.76
SKT370-180X-100	7TCA300140R0003	370 mm length 3.6 mm width small pack	EA	12000	100	4.99
SKT450-540X-50	7TCA300300R0003	450 mm length 7.6 mm width small pack	EA	1000	50	12.82
SKT750-540X-50	7TCA300300R0002	750 mm length 7.6 mm width small pack	EA	1500	50	21.55
SKT912-780X-50	7TCA300360R0001	912 mm length 9 mm width small pack	EA	500	50	30.62

Wire and cable management

Termination solution

Experience the Spec-Kon® advantage!

Thomas & Betts (today a Member of the ABB group) developed the first tool-applied solderless terminals and connectors more than 60 years ago in response to industry awareness of the need for better performance of electrical systems.

Since then, the crimping technology, in which a permanent joining of wires/cables to connectors is achieved by the insertion of a conductor into the barrel of the connector, which is then compressed to form a solid joint, has proven its many advantages year after year. Reliability of connection, low installed cost, low level of skill required to produce repeatable and quality crimps, environmental compliance (versus soldering for instance) are examples of benefits that have given this technology its natural superiority.

Easy entry design

This feature makes wire insertion faster and easier. Chamfering eliminates wire strand "hang up" and departure upon insertion into the terminal's barrel. The loss of even a couple of wire strands can have negative results on electrical efficiency and resistance to mechanical strain.

Spec-Kon® Insulated Tinned copper Easy-entry Terminal

Type Code	Description	UOM	SPQ	Unit M.R.P.
VT1E-RRΔ	0.5 - 1.5sq mm Ring Terminal	pc	100	Upon request
VT2E-BRΔ	1.5 - 2.5sq mm Ring Terminal	pc	100	Upon request
VT6E-YRΔ	4 - 6sq mm Ring Terminal	pc	100	Upon request
VT1E-RFΔ	0.5 - 1.5sq mm Fork Terminal	pc	100	Upon request
VT2E-BFΔ	1.5 - 2.5sq mm Fork Terminal	pc	100	Upon request
VT6E-YFΔ	4 - 6sq mm Fork Terminal	pc	100	Upon request
VT1E-RBΔ	0.5 - 1.5sq mm Blade Terminal	pc	100	Upon request
VT2E-BBΔ	1.5 - 2.5sq mm Blade Terminal	pc	100	Upon request
VT6E-YBΔ	4 - 6sq mm Blade Terminal	pc	100	Upon request

Color-Keyed®

Solderless compression connectors for power cables

The better method to install solderless compression connectors on power cables. Designed to provide a tight degree of reliability in electrical wiring, this method allows electrical workers to make installations with little effort and considerable savings in time.

A simple installation method in just three steps:

- First, the appropriate connector is chosen for the conductor size
- Next, the proper installing die is selected by matching the die colour to the connector colour
- Last, the die is installed in the tool, and the connector is compressed

Color-Keyed® Electro-tin plated copper lug

Type Code	Description	UOM	SPQ	Unit M.R.P.
□MΔ-A	Straight Lug	pc	10	Upon request
□MΔ-A-2	Double hole Straight Lug	pc	10	Upon request
□MΔ-A-45	45° bend Lug	pc	10	Upon request
□MΔ-A-90	90° bend Lug	pc	10	Upon request

Brazed seam/tubular construction

Spec-Kon® brazed seam connectors have a barrel with brazed seam (or a tubular construction), which provides increased mechanical properties (no barrel separation during the crimp process, higher wire pullout force) and electrical properties (reduced chances of wirestrand loss and electrical failure) compared to butted seam connectors.

Double crimp

The double crimp feature has an extra copper sleeve within the barrel to ensure additional solid conductivity and pull-out-strength. Ideal for high vibration or heavy industrial applications.

Wide range of styles, materials and application tools

Extensive range of styles to suit the various applications: rings, forks, blades, pins, bootlace ferrules, disconnects, splices.... Non-insulated or insulated with various types of material (Polycarbonate, Vinyl, Nylon, Heat Shrink) according to the specific requirements (moisture protection, short circuits, dust, and solid crimping against vibration).

Complete range of tooling, from ergonomic hand tool to pneumatic and hydraulic power tools.



Type Code	Description	UOM	SPQ	Unit M.R.P.
NC05ΔCD	0.5sq mm Cord end Terminal	pc	1000	Upon request
NC01ΔCD	1sq mm Cord end Terminal	pc	1000	Upon request
NC15ΔCD	1.5sq mm Cord end Terminal	pc	1000	Upon request
NC25ΔCD	2.5sq mm Cord end Terminal	pc	1000	Upon request
NC40ΔCD	4 sq mm Cord end Terminal	pc	1000	Upon request
NC60ΔCD	6 sq mm Cord end Terminal	pc	1000	Upon request
NC100ΔCD	10sq mm Cord end Terminal	pc	1000	Upon request
NC160ΔCD	16sq mm Cord end Terminal	pc	1000	Upon request

Δ Complete with stud hole size

Color-Keyed®: special lugs for special applications

ABB can solve your difficult wire bending and terminating problems in power distribution panels, switchgear and motor control enclosures.

- In addition to straight lugs, 45° and 90° angle lugs let you run the cable directly to a bus bar with no bending.
- One hole or two-hole configurations.
- Cross-sections from 10-400mm²
- All lugs meet the stringent requirements of IEC61238-1 Class A to deliver a high-level of performance and safety.



□ Complete with cable size

Δ Complete with stud hole size

Wire and cable management

Flexible conduit system

Adaptaflex flexible conduit system

Adaptaflex is one of the market leading flexible conduit system brands that can be found all over the world. Combining innovative design with dedicated manufacture, it offers customers one of the world's broadest ranges of cable protection products and solutions. With a choice of over 6000 products the range covers metallic and non-metallic flexible conduit systems for the protection of critical power and data cables.

The system solutions from Adaptaflex need to perform in a wide variety of environments from high temperature to freezing subzero conditions. The products are designed and tested to withstand constant vibrations, water ingress, offer corrosion resistance and are available in halogen free, low smoke and low toxicity materials. An extensive range of engineered solutions are designed to withstand the rigours of some of the most technically demanding markets. So whatever your project involves, our experience will provide the answer, helping you to specify the correct flexible conduit system.

Markets and industries

Adaptaflex flexible conduit systems are used to protect critical power and data cabling are available throughout a wide range of markets including:

- Commercial contracting
- Machinery
- Rail / Infrastructure
- Marine
- Mechanical
- Security / CCTV
- Data cabling
- Critical power

Many components are designed specifically for a market solution. These products uniquely meet an industry's needs - solving a specific application requirement, providing product innovation, saving installation and component costs, improving the quality and the integrity of the end product. Wherever you need mechanical and electrical protection for your cables you can be confident in specifying Adaptaflex products

Type PA - Polyamide (Nylon) 6 conduit

Type Code	Description	UOM	MOQ	SPQ	Unit M.R.P.*
PAFL13/BL	13mm nominal dia Nylon conduit, black	mtr	50	50	105
PAFL16/BL	16mm nominal dia Nylon conduit, black	mtr	50	50	145
PAFL21/BL	21mm nominal dia Nylon conduit, black	mtr	50	50	230
PACL28/BL	28mm nominal dia Nylon conduit, black	mtr	50	50	425
PACL34/BL	34mm nominal dia Nylon conduit, black	mtr	50	50	499
PACL42/BL	42mm nominal dia Nylon conduit, black	mtr	25	25	520
PACL54/BL	54mm nominal dia Nylon conduit, black	mtr	25	25	825
PACS80/BL	80mm nominal dia Nylon conduit, black	mtr	10	10	3,850
PACS106/BL	106mm nominal dia Nylon conduit, black	mtr	10	10	4,950

* Price per meter

Type S - Galvanised steel general purpose conduit

Type Code	Description	UOM	MOQ	SPQ	Unit M.R.P.*
S16	16mm nominal dia steel conduit	mtr	10	10	515
S20	20mm nominal dia steel conduit	mtr	10	10	495
S25	25mm nominal dia steel conduit	mtr	10	10	575
S32	32mm nominal dia steel conduit	mtr	10	10	950
S40	40mm nominal dia steel conduit	mtr	10	10	1,310
S50	50mm nominal dia steel conduit	mtr	10	10	1,855
S63	63mm nominal dia steel conduit	mtr	10	10	4,840
S75	75mm nominal dia steel conduit	mtr	10	10	7,435

* Price per meter

Type SP - Covered steel general purpose conduit

Type Code	Description	UOM	MOQ	SPQ	Unit M.R.P.*
SP16/BL	BL 16mm nom. dia covered steel conduit, black	mtr	10	10	570
SP20/BL	20mm nom. dia covered steel conduit, black	mtr	10	10	640
SP25/BL	25mm nom. dia covered steel conduit, black	mtr	10	10	735
SP32/BL	32mm nom. dia covered steel conduit, black	mtr	10	10	1,265
SP40/BL	40mm nom. dia covered steel conduit, black	mtr	10	10	1,650
SP50/BL	50mm nom. dia covered steel conduit, black	mtr	10	10	2,155
SP63/BL	63mm nom. dia covered steel conduit, black	mtr	10	10	5,165
SP75/BL	75mm nom. dia covered steel conduit, black	mtr	10	10	7,740

* Price per meter

For any other specification/requirement of conduits and accessories kindly contact local ABB sales office



Approvals



Temperature Range

Static applications: -40°C to +120°C
Moving applications: -5°C to +120°C

Flexibility & fatigue life

High flexibility - high fatigue life

Fire performance & EMI screen

Self extinguishing Halogen-free

UV resistance

Very high

Approvals



Temperature range

Static applications: -50°C to +300°C
Moving applications: -45°C to +250°C

Flexibility & fatigue life

High flexibility - High fatigue life

Fire performance & EMI screen

Self extinguishing

UV resistance

Very high



Approvals



Temperature range

Static applications: -25°C to +70°C
Moving applications: -5°C to +90°C

Flexibility & fatigue life

High flexibility - Medium fatigue life

Fire performance & EMI screen

Self extinguishing

UV resistance

Very high

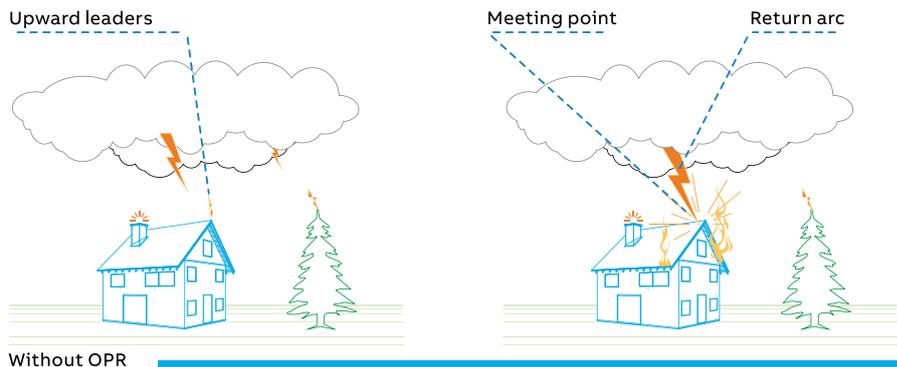


External lightning protection

OPR - Optimized Pulse Rod

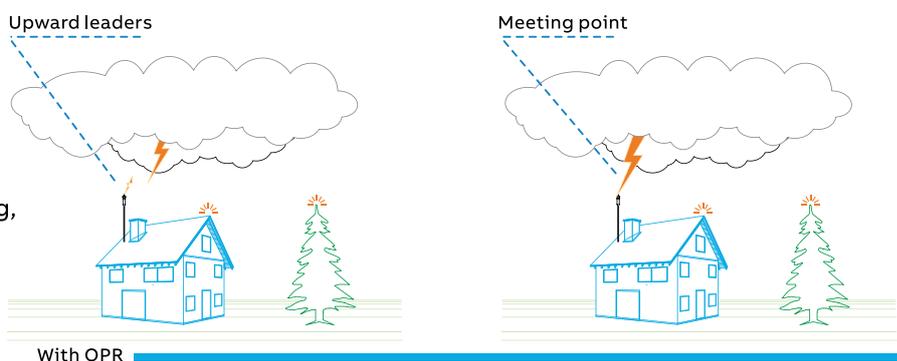
The OPR efficiency (ΔT)

Lightning is one of the most spectacular meteorological phenomena. Generated by the interaction of clouds elements (water and ice), it can kill, injure and damage. The unique efficiency of the OPR Early streamer emission is based on the difference (ΔT), measured in a laboratory, in between the emission time of the OPR and the one from a simple rod. The OPR ESE air terminal is composed of a striking point connected to a down conductor to conduct the lightning to the ground.



Complete autonomy

During a storm the ambient electric field may rise from 600 V to 10-20 kV/m. When the electric field reach this level representing a minimum risk for a lightning, the OPR begins to get activated and generates high voltage pulses, helping to create and propagating an upward leader. After a strike on the OPR, the lightning current is driven to ground by the down conductor to the earth termination system.



Radius of protection

The radius of protection (R_p) of the OPR is calculated according to the NF C 17-102 (edition 2011). It depends on the OPR efficiency (ΔT) expressed in micro-seconds. The maximum value for ΔT is 60 μs .

The risk assessment shall be calculated according to the NF C 17-102 Annex A / IEC 62305-2 and will define the protection level (LPL I, II, III or IV) which will be used in the determination of the OPR radius of protection.

Installing/testing

The installation and verification of lightning protection systems using one or more OPR units must be performed in accordance with the manufacturer's recommendations and to the NF C 17-102 standard.

$R_p(h)$: Protection radius at a given height (h)
 $R_p(h) = \sqrt{2rh - h^2 + \Delta(2r + \Delta)}$ (for $h \geq 5$ m)
 For $h < 5$ m, refer to the table below

h : Height of the OPR tip above the surface(s) to be protected

$r(m)$: Standardized striking distance

$\Delta(m) = 10^6 \cdot \Delta T$ (OPR efficiency)

OPR radius of protection

Protection level	I (r = 20 m)			II (r = 30 m)			III (r = 45 m)			IV (r = 60 m)		
	OPR 30	OPR 45	OPR 60	OPR 30	OPR 45	OPR 60	OPR 30	OPR 45	OPR 60	OPR 30	OPR 45	OPR 60
h (m)	Radius of protection R_p (m)											
2	19	25	31	22	28	35	25	32	39	28	36	43
3	29	38	47	33	42	52	38	48	58	43	57	64
4	38	51	63	44	57	69	51	65	78	57	72	85
5	48	63	79	55	71	86	63	81	97	71	89	107
6	48	63	79	55	71	87	64	81	97	72	90	107
8	49	64	79	56	72	87	65	82	98	73	91	108
10	49	64	79	57	72	88	66	83	99	75	92	109
15	50	65	80	58	73	89	69	85	101	78	95	111
20	50	65	80	59	74	89	71	86	102	81	97	113
45	43	65	76	58	75	89	75	90	105	89	104	119
50	40	65	74	57	75	88	75	90	105	89	104	120
55	36	65	72	55	75	86	74	90	105	90	105	120
60	30	65	69	52	75	85	73	90	104	90	105	120

External lightning protection

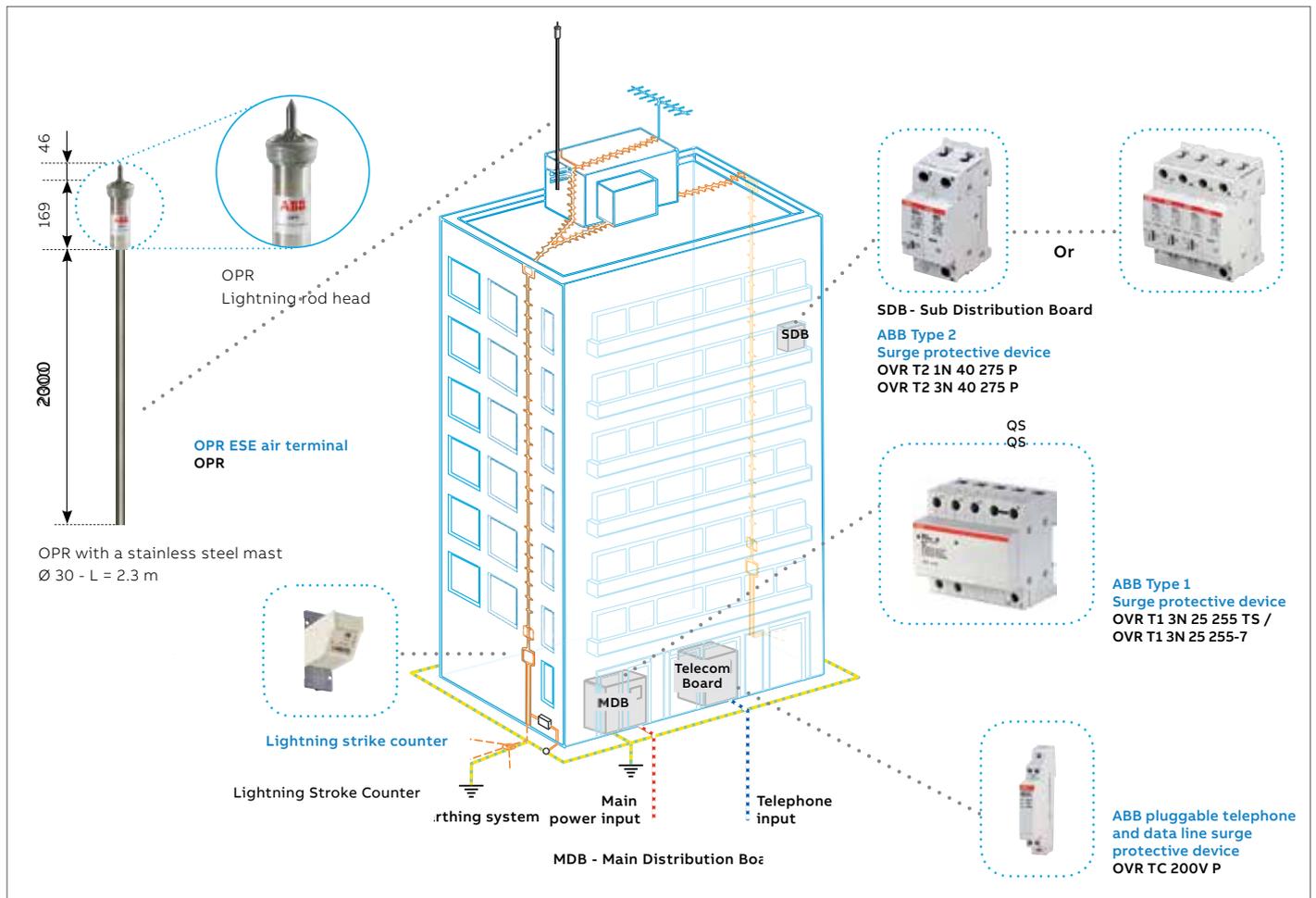
OPR - Optimized Pulse Rod

OPR Range

Type Code	Description	Length (m)	Weight (kg)	Time gain (μs)	Ordering code	Unit M.R.P. (₹)
OPR 30	ESE Air terminal without mast	0.215	2.4	30	2CTB899800R7000	1,18,200
OPR 45	ESE Air terminal without mast	0.215	2.4	45	2CTB899800R7500	1,41,350
OPR 60	ESE Air terminal without mast	0.215	2.4	60	2CTB899800R7100	1,55,650

Accessories

Type Code	Description	Length (m)	Weight (kg)	Ordering code	Unit M.R.P. (₹)
LS COUNTER	Lightning stroke counter	-	0.56	2CTH0CCF2004	41,500
MAST 2M30	Mounting Mast, 2m, 30mm dia	2	4.4	H00003002L	7,650
MAST 3M	Mounting Mast, 3m with guywire and base plate	3	6.5	H00003003LGB	15,150
CM015	Bentonite Moisture retainer - Powder	-	25	-	Upon enquiry
CM020	Bentonite Moisture retainer - Granules	-	25	-	Upon enquiry
CM025	FurseCEM conductive aggregate	-	25	-	Upon enquiry
RB Δ □	Copperbond earth rod	-	-	-	Upon enquiry
CR Δ □	Rod to tape clamp	-	-	-	Upon enquiry
PT205	Light weight inspection pit with grey polymer lid	-	-	-	Upon enquiry



External lightning protection

Furse - Earthing and lightning protection

Furse provides world leading earthing, lightning and electronic systems protection from our own designed and manufactured products through to risk assessment and systems design advice.

Our renowned Furse range of earthing & lightning protection design services provide a unique total solution.

Expertise

Specialist advice from our fully qualified technical engineers - focusing on your earthing & lightning protection issues and concerns.

Experience

Experience to provide the optimum design - one that doesn't use more material than is necessary, saving you money.

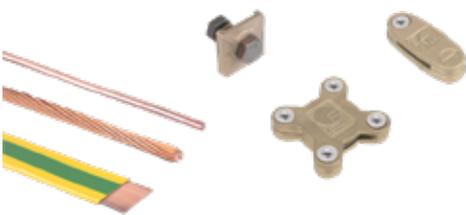
Knowledge

Our knowledge of the latest products ensures a tailored design that can be installed using the most appropriate and up-to-date products.

Compliance, now & in the future

Furse designs comply with all recognised standards - national and international. Our engineers actively contribute to national and harmonised European / international standards, ensuring we remain at the forefront of new developments.

- BS EN/IEC 62305 protection against lightning
- NFPA 780 Standard for the installation of lightning protection systems
- IEEE Std 80:2000 IEEE guide for safety in AC substation grounding
- ENA TS 41-24 guidelines for the design, installation, testing & maintenance of main earthing systems in substations
- BS EN 50522:2010 - earthing of power installations exceeding 1.k Vac
- IS/IEC 62305 - protection against lightning



Structural lightning protection

From Furse air termination systems including air rods and strike plates to capture lightning strikes, through to our comprehensive range of down conductors and lightning protection components which channel lightning energy safely to a Furse earth termination network.

- Air termination systems
- Lightning protection conductors
- Conductor clips, clamps and holdfasts
- Bimetallic connection components

Earthing

A combination of Furse earth electrodes, soil conditioning, conductors and equipotential bonding bars provide an effective, low resistance dissipation from the lightning protection system to earth.

- Earth rods and conductor systems
- Mechanical earth clamps and bonds
- Soil conditioning agents
- Earth bars and equipotential bonding



Electronic systems protection

Our exhaustive range of equipotential bonding and transient overvoltage SPDs providing fully co-ordinated protection against transient overvoltages on all incoming and outgoing metallic service lines including power, data, signal & telecoms.

- Lightning equipotential bonding SPDs
- Mains power transient overvoltage SPDs
- Data, signal & telecommunication lines SPDs
- DC power & photovoltaic SPDs

FurseWELD - Exothermic welding

FurseWELD exothermic welding is a cost-efficient, self-contained system that uses the high temperature reaction of powdered copper oxide and aluminium, within a mould, to form permanent electrical connections.

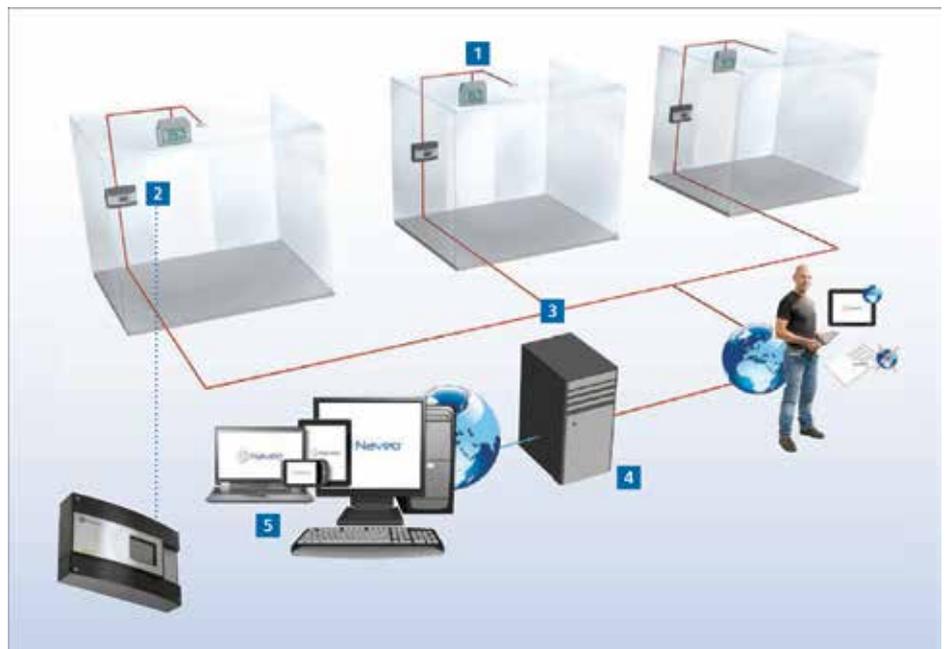
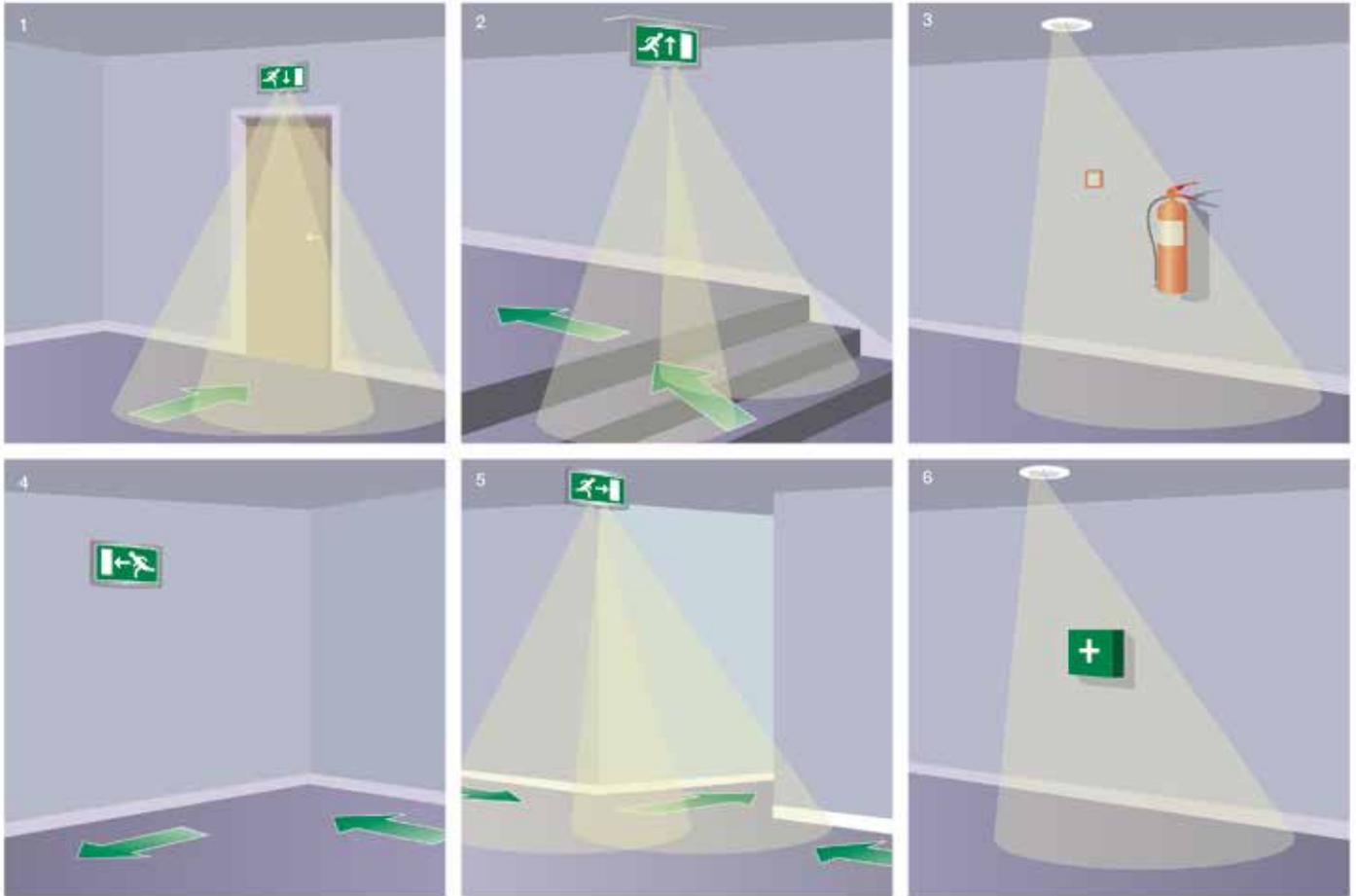
- Moulds
- Powder
- Handle clamps
- Accessories

Emergency lighting systems

Exit sign, light and battery system

The requirement for emergency lighting originates from the Fire Precautions Act, 1971 and was further enforced by the Fire Precautions (Workplace) Regulations, 1997 (Amended 1999).

The Emergi-Lite concept is clear and simple. Emergi-Lite offers you reliable total solutions for safe evacuation. The way in which we do this is what makes the difference. Emergi-Lite offers advantages to everybody involved in the construction process. That way, you know that Emergi-Lite is always the right choice, for both you and your customers.

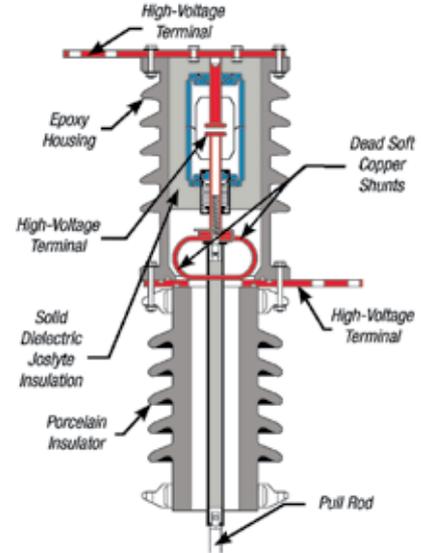


MV and HV apparatus

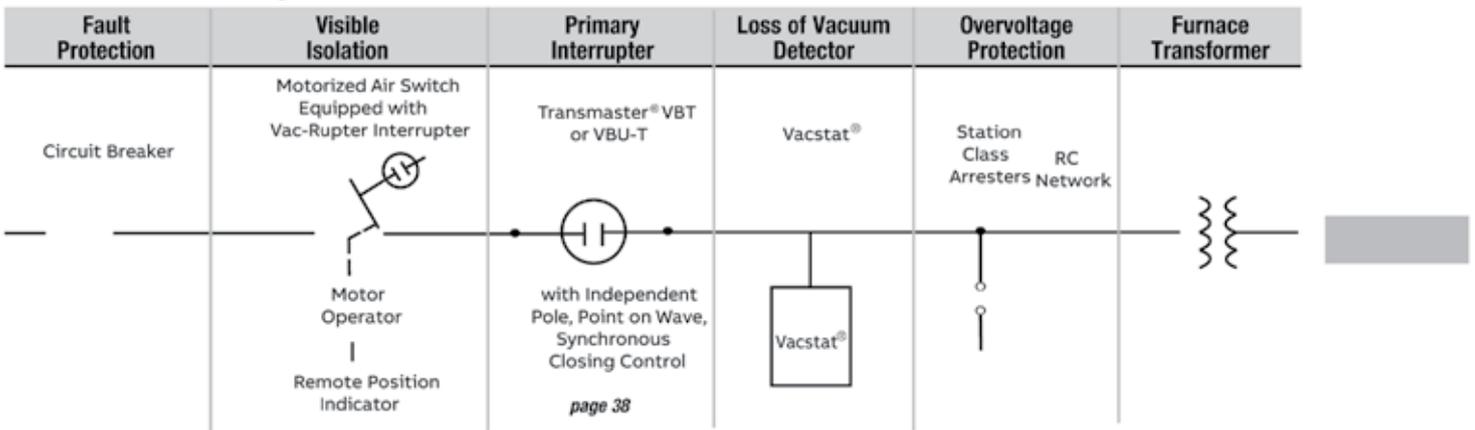
Capacitor and furnace switches

Transmaster® VBT Electric Furnace Switches
Longest life product for electric furnaces!
Joslyn Hi-Voltage® Transmaster®
Electric Furnace Switch

- Long, maintenance-free life under demanding conditions, designed for 100,000 operations
- No oil or gas used for interruption or insulation
- Safe - no visible or hazardous arcing and no hot exhaust or ionized gas dissemination
- Vacuum interrupter condition can be determined by a high-potential withstand test quickly
- Lightweight modular design - no special foundations or costly support required
- Removable fuses provide protection
- Vacuum contacts withstand excessive overloads and system short circuits at any power factor
- Eight heavy-duty auxiliary contacts are provided for remote indications, control and interlocking of other furnace functions or equipment
- Capacitor discharge circuit trips switch open upon loss of control voltage
- Circuit trips switch open if one mechanism does not close within the specified time



Ideal Furnace System



DESCRIPTION	15.5kV						38kV					
	Radius of protection Rp (m)											
Continuous Current (Amps)	600	1000	1500	2000	3000	4000	600	1000	1500	2000	2500	3000
Momentary Current (RMS Amps, Asymmetrical) (kA)	20	35	50	65	65	65	20	35	50	65	65	65
Impulse Withstand Open-Gap (kV BIL)	110	110	110	110	110	110	200	200	200	200	200	200
Impulse Withstand Line-to-Ground (kV BIL)	150	150	150	150	150	150	200	200	200	200	200	200
Maximum 60 Cycle Withstand Line-to-Ground Dry (One Minute) (kV)	112	112	112	112	112	112	112	112	112	112	112	112
Maximum 60 Cycle Withstand Line-to-Ground Wet (Ten Seconds) (kV)	55	55	55	55	55	55	55	55	55	55	55	55
Fault Interrupting Rating (Amps, Symmetric) (kA)	4	4	4	4	4	4	4	4	4	4	4	4

General conditions of sale

General terms and conditions of sale:

- All prices mentioned in this price list are in Indian Rupees (INR) and this supersedes all previous price lists
- Prices are based on Ex-work basis
- Maximum retail prices (MRPs) mentioned in the publication are maximum recommended selling prices
- List prices (LPs) mentioned are exclusive of all taxes
- Prices are subject to revision without prior notice

Terms of delivery: Ex- work, Nelamangala or any other ABB warehouse in India

Standard delivery terms

Ex-stock or 30 working days

Address of Nelamangala warehouse

ABB INDIA LIMITED

#126, Hanchipura Village, Kasaba Hobli
Nelamangala Taluk, Bangalore-562 123
Tel: +91 80 2770 0081
Tel: +91 80 2770 0082
Tel: +91 80 2770 0083

Address of Works

Nelamangala
Survey No: 88/3, 88/4, Basavanhalli, Kasaba Hobli,
Nelamangala Taluk, Bangalore - 562 123
Karnataka, India
Tel: +91 80 2294 6618
Tel: +91 80 2294 6619
Fax: +91 80 2294 9999

Peenya

Plot no. 5 & 6, II Phase,
Peenya Industrial Area, Bangalore - 560 058
Karnataka, India
Tel: +91 80 22949354/9585
Fax: +91 80 22949389

LV capacitor factory:

Plot No. 485/6, 14th Cross, IV Phase,
Peenya Industrial Area, Bangalore - 560 058
Karnataka, India
E-mail: lvcapacitors-sales@in.abb.com

Vadodara

Maneja Works, Maneja,
Vadodara - 390 013
Gujarat, India
E-mail: in-da.sales@abb.com
Tollfree No: 1800-4200-707

Warranty policy

ABB guarantees the supply according to the law. Upon expiration, the warranty expires even if the devices have not been operated for any reason. In the case of faults, as long as this does not depend on assembly errors by the customer or third parties, on incorrect use of the materials, lack of or incorrect maintenance, normal wear and tear, faults caused by inexperience or negligence by the purchaser or by transport, by the improper storage of the materials, or failure by the customer to adopt measures to reduce eventual dysfunction, overload with respect to the contractual limits, by unauthorized intervention, by tampering or action effected by the customer, to force majeure, ABB will, throughout the warranty period, repair or replace any defective part of supply free of charge, in the shortest possible time, at its premises. Where the repair cannot be executed at ABB premises, except as otherwise agreed, all the supplementary or relevant expenses shall be borne by the customer.

Repair or replacement will be executed only if the customer has performed all its obligations to that date. The customer may not suspend performance of the obligations in any case in which this warranty is invoked. The term for the repair or replacement of the faulty supply will be agreed by ABB and the customer. The shipment of any supply claimed to be faulty by the customer to ABB and subsequently by ABB to the customer, shall be at the risk and under the responsibility of the customer, who shall arrange adequate insurance coverage. The supply repaired or replaced is shipped at the expense and risk of the customer. Any dispute about a shipment has no effect on the remainder of the supply. The products replaced by ABB become the property of ABB.

General conditions of sale

Any claim regarding the supply, machinery, plant or components not compliant with the specifications or the contractual documentation must be raised in writing, within a maximum term of 8 days from delivery, when the time limit for action expires. In the case of systems, this term is 60 days from execution of the disputed service when the time limit for action expires.

In the case of latent defects, the terms indicated above run from the date of discovery. Once the warranty period has expired claims are not accepted, even for latent defect. Where the claim is timely and justified, ABB's obligation is limited to replacement of the goods found not in compliance or repetition of execution of the non-compliant service, excluding all rights to the Customer to seek termination of the contract and/or compensation of damages.

With reference to the provision of spare parts, ABB reserves the right to provide materials either from the original supplier or from equivalent supplier.

Warranty period:

- 1. Breakers & switches:** The warranty period is 12 months from the date of commissioning or 18 months from the date of ABB's invoice, whichever is earlier.
- 2. Control products:** The warranty period is 12 months from the date of commissioning or 18 months from the date of ABB's invoice, whichever is earlier.
- 3. Enclosures & Din Rail components:** The warranty period is 5 years from the date of ABB's invoice if the components are used in ABB's enclosure. If non- ABB enclosure is used, Warranty period is 12 months from the date of commissioning or 18 months from the date of ABB's invoice, whichever is earlier.

4a. Wiring accessories: 10 years of warranty.

The company at its discretion will repair or replace products if they have any manufacturing defect within 10 years from date of purchases for switches (without LED Lamp) and power sockets. For other ABB wiring accessories, the warranty will be for 2 years. ABB mounting boxes are not covered under warranty. Warranty for all the products will not be valid: If devices are not used with original ABB mounting boxes. If devices are altered, dismantled, rectified or tampered. Warranty states company's entire liability. This does not extend to cover consequential losses or damage or installation cost arising from defective products. Since product improvement is a continuous process, the data furnished in this brochure may undergo revision. For the latest information, you may contact our nearest sales office.

4b. Plug & sockets: The warranty period is 12 months from the date of commissioning or 18 months from the date of ABB's invoice, whichever is earlier.

5. LV capacitor: The warranty is 12 months from the date of commissioning or 18 months from the date of ABB's invoice, whichever is earlier.

Liability clause:

The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.





Note

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website: new.abb.com/low-voltage

