

Low Voltage Switches

Low voltage switches Wide range of high quality switches

Switches for diverse applications

ABB has a wide portfolio of low voltage switches with ratings between 16 and 3150 Amperes. ABB's offering includes diverse fusible and non-fusible solutions suitable for numerous applications.

Switch-disconnectors. The offering includes AC rated switches (manual or motorized) and DC rated switches. Switch disconnectors can be used for example in machinery, power distribution, switchboards, motor control centers or photovoltaic applications.

Switch fuses. Manual or motorized, they are available for all types of fuse links: DIN, BS, NFC, Neozed, UL and CSA. ABB's portfolio includes heavy-duty switch fuses that can be installed close to the main transformer, for example, in heavy industry and ships.

Change-over and transfer switches. ABB offers both motorized and manual change-over switches. The range includes switches to transfer loads from one power source to another manually, remotely or automatically. These types of switches are commonly used in applications with a backup power supply.

Enclosed switches. Switch-disconnectors, change-over switches and switch fuses in plastic, steel or aluminum enclosures. They are used as main switches in industrial, commercial or residential applications.

Cam switches. To be installed in control circuits such as voltand ammeter circuits, change-over connections, motor starter circuits and as regular on-off switches.



Wide range offering of high quality products

ABB's switches offer a compact solution, superior performance and protection

ABB's offering includes switches that can be operated manually, remotely or auomatically. For remote operation, a PLC, a cam switch or push buttons can be used. Automatic operation is possible with a control unit.

A compact solution. Possible thanks to a uniquely short current path and a double-sided spring construction combined with a small amount of components. ABB's switches therefore have a small footprint area, allowing installation in confined spaces.

Space savings mean cost reduction

High performance. The switches have a powerful construction that enhances performance. They have high insulation and current ratings. In motorized switches, the motor operators have a wide voltage operation range, making it possible to use the same device in diverse applications.

▶ ABB's switches are designed for your application

Safe to use. The design of ABB's switches is based on substantial experience in electrical safety. Safe operation is ensured by all-time reliable position and status indication, prevention of unwanted operation, high protection degree in enclosures and handles and accessories that prevent the contact with live parts.

▶ ABB's switches protect people and equipment

Easy to install. ABB's offering includes switches that can be mounted on door, base or DIN-rail. In some of the ranges, it is possible to install the switch in any direction. In addition, there are many cabling options and snap-on mounted accessories, so no tools are needed.

Quick and perfect installation every time



Selecting the right switch

To select and configure the products according to your needs, there are three web-tools available in http://switchselector.com/. The selection tools are user friendly and rule out wrong selection.

Camweb. To configure standard and customized cam switches. Available in nine languages.

eOT. To select enclosed switches. Available in eight languages

Switches. To select switch-disconnectors, standard and special connected switch fuses. In this tool it is also possible to view accessories. Available in three languages.

Switch-disconnectors 16...3150 Amperes High performance, compact solution

Manual operation



Switcl	h size	16 25 32	16 25 40	63 80	30 60 100 125	160 200 250	200	315 400
IEC	I _{th} [A]	25 32 45	25 32 40	63 80	115 125	160 200 250		315 400
I	, /AC22A, 415V [A]		16 25 40	63 80	100 125	160 200 250		315 400
I	, /AC23A, 415V [A]		16 20 23	45 75	80 90	160 200 250		315 400
	I _e /DC21, 660V [A]	16 25 32	16 25 32			160 200 250		
I	,/DC21, 1000V [A]	16 25 32				160 200 250		315 400
I	_e /DC21, 1200V [A]	16 25 32						
UL	Ampere rating [A]		20 30 40	60 80	30 60 100		200	

Motor operation



160 200 250

315 400

Switch size [A]

Accessories

Optional handles

Extended shafts

Legend plates

Auxiliary contacts

Fourth poles

N & PE terminals

Terminal shrouds

Connecting accessories

Conversion kits

Locking accessories





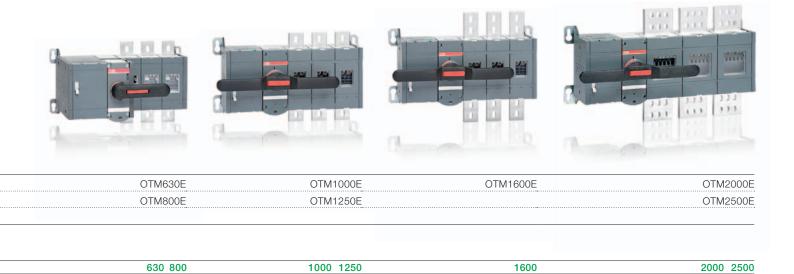






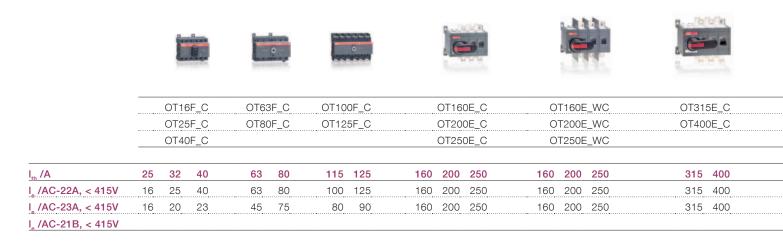
OETL3150K	OT2000E	OT1000E	OT630E	
	OT2500E	OT1250E	OT800E	
		OT1600E		
OETL-NF1600		OT800U	OT600U	OT400U
OETL-NF2000		OT1200U		

400	600 (630 8	300 8	300	1000	1200	1250	1600	2000	2500	1600	2000	3150
	,	630 8	, , ,		1000			1600	_000	2500			3150
	(630 8	300		1000		1250	1600	2000	2500			
	(630 8	300		1000		1250	1600					
	(600											
400	600		8	300		1200					1600	2000	



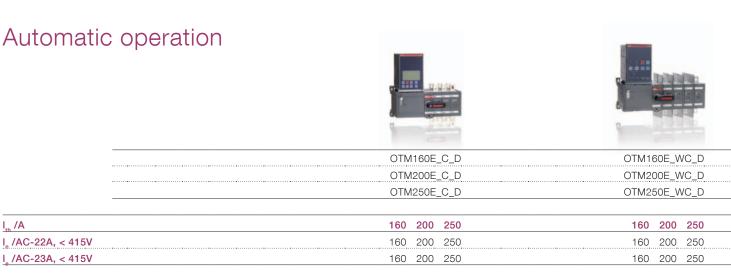
Change-over and transfer switches 16...2500 Amperes Securing your power supply

Manual operation



Motor operation

			talia (mp		And the second				E.					
			(OTM4	0F_C	0	TM16	0E_C	OTN	/160E	_WC	OTM31	15E_C	
			(ОТМ6	3F_C	O	TM20	0E_C	OTN	/1200E	_WC	OTM40	00E_C	
				ОТМ8	0F_C		TM25				_WC		•••••	
			O	TM10	0F_C									
			0	TM12	5F_C									
I _{th} /A	40	63	80	115	125	160	200	250	160	200	250	315	400	
I _e /AC-22A, < 415V	40	63	80	100	125	160	200	250	160	200	250	315	400	
I _e /AC-23A, < 415V	40	63	80	80	90	160	200	250	160	200	250	315	400	
I _e /AC-21B, < 415V														



Accessories

Optional handles

Terminal shrouds

Extended shafts

Connecting accessories

Auxiliary contacts

Locking accessories









OT2000E_C	OT1600E_C	OT1000E_C	OT630E_C
OT2500E_C		OT1250E_C	OT800E_C
2000 2500	1600	1000 1250	630 800
	1600	1000 1250	630 800
	1250	1000 1250	630 800
2000 2500			



OTM630E_C



OTM1000E_C



OTM1600E_C



OTM2000E_C

OTM800		OTM125	50E_C		OTM250	DOE_C
		•				
630	800	1000	1250	1600	2000	2500
630	800	1000	1250	1600		
630	800	1000	1250	1600		
					2000	2500









1600
1600
1250

Switch fuses 16...1250 Amperes Designed for extreme conditions

Manual operation



Motor operation



Accessories Optional handles Extended shafts Auxiliary contacts Fourth poles N & PE terminals

Solid links
Terminal shrouds
Connecting accessories
Conversion kits
Blown fuse indicators
Locking accessories









OS200D	OS400D	OS630D	OS1250E
OS250D		OS800D	
OS200B	OS315B	OS630B	OS1250E
OS250B	OS400B	OS800B	
OS200 I	OS400 I	O\$600.J	0912001

200	250	200	315	400	600	630	800	1200	1250
110	140			230		355	450		560
110	145		180	230		355	450		560
		150		250	400		500	-	
 		200		350	500		600	-	



Enclosed switches 16...1600 Amperes Safe and reliable

Plastic

Black / red-yellow handle types









Front operated



Sid	اما	or	10	rai	ŀΔ	d

Switch-disconnectors from 16 to 800 Amperes			W_1625	BW_40	BW625640	OTP16	OTP1632
Rated operational current, 2-pole		[A]	25*	40*		-	-
AC22A, up to 690V	3-pole	[A]	16* 25*	40*		16	25 40
	4-pole	[A]	25*	40*		-	16 25 40
	6-pole	[A]	-	-	25* 40*	-	16 25 40

Rated operational current,	3-pole, BS type	[A]
AC22A, up to 690V	4-pole, BS type	[A]
	3-, 4-pole, DIN type	[A]

Steel sheet

IP65, IP54

Black / red-yellow handle types







Front operated

10 to 1000 American		OT40 00	OT4.05	OTI 10 00
16 to 1600 Amperes		011663	01125	OTL1663
3-, 4-pole	[A]	16 25 40 63 80	125	16 25 40 63 80
6-pole	[A]	-	16 25 40 63 80	16 25 40
16 to 800 Amperes			OT1663	
3-pole	[A]		16 25 32 45 63	
4-pole	[A]		-	
es from 20 to 800 Ampere	es		OS2032	
2-pole, BS type	[A]		-	
3-, 4-pole, BS type	[A]		20 32	
3-, 4-pole, DIN type	[A]		-	
	6-pole 16 to 800 Amperes 3-pole 4-pole es from 20 to 800 Ampere 2-pole, BS type 3-, 4-pole, BS type	3-, 4-pole [A] 6-pole [A] 16 to 800 Amperes 3-pole [A] 4-pole [A] es from 20 to 800 Amperes 2-pole, BS type [A] 3-, 4-pole, BS type [A]	3-, 4-pole [A] 16 25 40 63 80 6-pole [A] - 16 to 800 Amperes 3-pole [A] 4-pole [A] 2-pole, BS type [A] 3-, 4-pole, BS type [A]	3-, 4-pole [A] 16 25 40 63 80 125 6-pole [A] - 16 25 40 63 80 16 to 800 Amperes OT1663 3-pole [A] 16 25 32 45 63 4-pole [A] - 20 32 2-pole, BS type [A] - 3-, 4-pole, BS type [A] 20 32

^{* 500}V

Aluminum

Black / red handle types







Side operated

			Side operated		Front operated
Switch-disconnectors from 25 to 630 Amperes			KSE_25	KSE_40	KSE_63125
Rated operational current,	2-pole	[A]	25	40	-
AC22A, up to 500V	3-pole	[A]	25	40	63 80125
	4-pole	[A]	25	40	63 80

Accessories Cable glands and entries Auxiliary contacts Padlock shackle













			DC-rated SW	ittiles
OTP4563	OTP125	OT160800	OTP16_MS	OTP1

OTP1632_MS	OTP16_MS	OT160800		OTP125	OTP4563
DC21A: 16 32	DC21A: 16	-		-	-
-	-	160 200 250 315 400 570 720		125	63 80
-	-	160 200 250 315 400 570 720		125	63 80
-	-	160 200 250 315 400 570 720		125	45 63
		OS32400	OS2032		
		32* 63*135* 200 315 400	20 32		
		32* 63*100* 200	20 32		
		32* 63*125*135* 250 400	-		





Stainless steel sheet

IP65 Black / red-yellow handle types





OTR100125	From 16 to 125 Amperes OTR1663	OT1601600	OTL100125
100 125	16 25 40 63 80	125 160 200 250 315 400 570 720 1000 1250 1600	100 125
63 80	16 25 40	125 160 200 250 315 400 570 720	63 80
		OT160800	
		160 200 250 315 400 570 720	
		160 200 250 315 400 570 720	

						C)S20	.800	
32*	63*125*								
			63*1						
	32*	63*	125*1	35*	250	400	600	720	







Fir	em	ıan	's	SW	itc	h

KSE31603630	KSF_25	KSF_40	
-	25	-	
160 250 315 500 630	25	40	
-	25	40	

Cam switches 10...315 Amperes Quick and easy to install

Rotary cam switches



^{*)} Cam switch OL80 with rated current 80 A is available and can be configured in Camweb

Customized cam switches for applications with special requirements

With Camweb (http://switchselector.com) you can configure cam switches according to your needs.

Camweb is a user friendly tool. It guides the user during the specification process, so incompatible solutions are avoided.

Ordering with Camweb is easy

The tool generates the type and ordering codes automatically. The complete delivery, has only one number and it includes handle and front plate. For every special switch that is specified, Camweb generates a unique product type.

The order handling process is the same for standard and nonstandard switches.

Accessories	
Handles	Lettering plates
Front plates	Spare key
Base mounting kit	Door coupling kits
DIN-rail mounting plate	Connection jumpers
Enclosures	Protective rear cover
Shafts	Nut spanner tool



^	^	^	^	^	^	
X	X	X	X	Х	X	
X	X	X	X			
X	X	X	X	X		
				X		
X					X	Х
X	X	X	X		X	Х
X	X	X	X		X	Х
				X		
				X		
				X		
				X		
 •••••		•		•••••	••••	

What can be specified from Camweb?

- Front plate engraving
- Padlocking in various positions
- Key operation
- Key interlock
- Double and triple gang switches
- Long cam switches with metallic shaft, with up to 60 contacts and 12 positions.
- Base, DIN rail or door mounting
- Contact diagram
- Enclosed switches
- Additional lettering plates
- Door coupling
- Metallic cam shaft
- Gold contacts

Accessories



Designing and executing your installation is quick and easy with the extensive variety of accessories offered by ABB.

Handles

You can choose between selector, pistol and direct-mounted handle types according to switch type and size. The handles are available in plastic or metal.

A safe operation is ensured through protection degrees up to IP65, possibility to padlock in OFF position and interlock the door in ON position.

Shafts

Shafts with 6 and 12 mm diameters are used with selector and pistol type handles. The length range is between 85 and



535 mm. The shafts are adjustable to different installation depths. It is not necessary to cut them to precise length.

Auxiliary contacts

The snap-on auxiliary contacts can be fitted on the side of the switch or inside the mechanism cover, depending on the switch size and type.

OMD control units for automatic operation

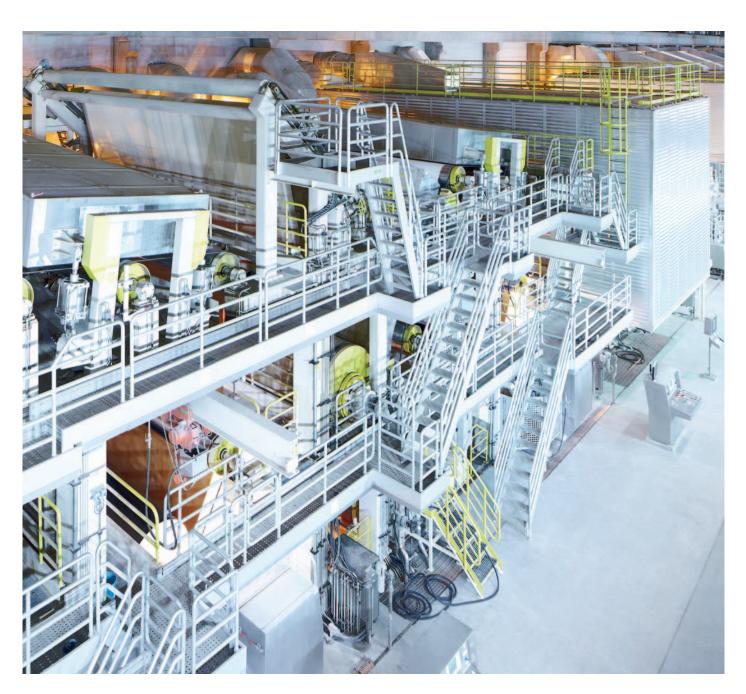
OMD control units can be used together with motorized change-over switches to create an automatic transfer switch. Different types of control units ensure that you find a suitable product for your needs.

Fuse monitors

ABB offers you a wide variety of fuse monitoring options for both AC and DC circuits.

Other accessories

- Additional power poles, neutral and earth terminals
- Terminal clamps for different cable types and sizes
- Terminal shrouds
- Conversion kits



Designing and executing your installation is quick and easy with the extensive variety of accessories offered by ABB.

ABB Oy

Low Voltage Switches

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The technical data is valid at the time of printing. We reserve the right to subsequent alterations.





