

STARTERS

Starters MA (Direct Online) and SDA (Star Delta)

For industrial and agriculture applications



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The isolation and short-circuit protection functions must be performed by a fuse isolator switch, a fuse switch, Manual motor starter(MPCB) or circuit breaker externally. Fuse rating recommended in this document must and should be used.

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

ABB in India serves customers in many segments through a wide manufacturing and marketing network.

ABB's range of Starters MA-(Direct Online Starters) and SDA (Fully Automatic Star- Delta Starters) have been designed to meet both industrial and agriculture applications. These starters are made with renowned European technology comprising globally recognized MA/AX/A range contactors and TA Overload relays, which protect your motors from overload and single phasing.

Salient features

- Suitable for industrial & agriculture applications
- Conforms to IS 13947 (Part 4) & IEC 60947-4-1
- Compact design of contactor with IP20 terminals
- Protection against overload and has built-in single phasing protection
- Overload relay with class 10-A tripping class
- Operating temperature from -5° C to 55° C
- Carbon sheet steel enclosure with powder coated and with IP42° protection

A combination starter performs the following functions:

- Circuit isolation
- Motor "ON - OFF" control"
- Overload protection

Direct online starter

"MA" DOL consists of MA range contactors and TA25 overload relays assembled in sheet steel double color powder coated enclosure. These starters protect the motor against overload and single phasing and enable START and STOP of the motors.

Direct online starters

Rated power - 415 V AC-3	0.25hp... 10hp
Contactors	a.c. Operated contactors MA
Thermal overload relays	TA25 DU



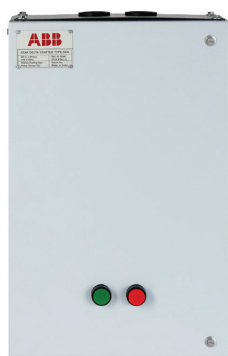
Starter rating		Nominal current	Contactor type	O/L relay TA25DU	Back up fuse rating	Cable size
HP	KW	Amp.	A range	Current range	Amp.(gG)	Sq. mm.
0.25	0.18	0.60	MA16-30-10	TA25 DU 1.0 (0.63-1)	4.0	1.5
0.50	0.37	1.15	MA16-30-10	TA25 DU 1.4 (1.0-1.4)	4.0	1.5
0.75	0.52	1.40	MA16-30-10	TA25 DU 1.8 (1.3-1.8)	6.0	1.5
1.0	0.75	2.0	MA16-30-10	TA25 DU2.4 (1.7-2.4)	6.0	1.5
1.5	1.1	2.5	MA16-30-10	TA25 DU 3.1 (2.2-3.1)	10	1.5
2.0	1.5	3.5	MA16-30-10	TA25 DU 4.0 (2.8-4.0)	10	1.5
3.0	2.2	5.0	MA16-30-10	TA25 DU 6.5 (4.5-6.5)	16	1.5
5.0	3.7	7.5	MA16-30-10	TA25 DU 8.5 (6.0-8.5)	25	1.5
7.5	5.5	1.5	MA16-30-10	TA25 DU 14 (10-14)	32	2.5
10.	0 7.5	14.0	MA16-30-10	TA25 DU 19 (13-19)	32	2.5

Automatic Star- Delta Starter

“SDA” fully automatic Star-Delta starters consist of AX/A range contactors and TA25, TA42 & TA75 overload relays, CT-SDE electronic timer, assembled in sheet steel double color powder coated enclosure.

Automatic Star-Delta Starters

Rated power - 415 V AC-3	5 hp...75 hp
Contactors	a.c. operated contactors AX/A
Thermal overload relays	TA25 DU...TA75DU
Electronic times	CT-SDE



Rating	Rated	Phase	Contactor type			O/L relay	Back-up Fuse-A	
5/3.7	7.5	4.3	AX09	AX09	AX09	TA25DU6.5 (4.5--6.5)	10	20
7.5/5.5	11	6.3	AX12	AX12	AX09	TA25DU8.5 (5.0--8.5)	16	25
10/7.5	14	8.1	AX18	AX18	AX09	TA25DU11 (7.5--11)	20	32
12.5/9.3	18	10.4	AX18	AX18	AX09	TA25DU14 (10--14)	20	32
15/11	21	12.1	A26	A26	AX09	TA25DU14 (10--14)	25	40
20/15	28	16.2	A26	A26	AX12	TA25DU19 (13--19)	32	50
25/18.5	35	20.2	A26	A26	AX18	TA25DU25 (18--25)	40	63
30/22	40	23	AX32	AX32	AX18	TA25DU32 (24--32)	50	80
35/26	48	28	AX40	AX40	A26	TA25DU32 (24--32)	50	80
40/30	55	31.8	AX40	AX40	A26	TA42DU42 (29--42)	63	100
50/37	66	38.1	AX50	AX50	A26	TA75DU52 (36--52)	80	125
60/45	80	46.2	AX65	AX65	AX32	TA75DU63 (45--63)	100	125
75/55	96	55.5	AX80	AX80	AX40	TA75DU63 (45--63)	125	160

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