Motor starting solutions

- Perfect match in starter assembly with a large range of accessories.
- Short-circuit protection, type 1 and 2 coordination.
- Large offer of accessories for direct-on-line, reversing and star-delta starters which allows:
  - time / cost saving,
  - secure connection,
  - aesthetic starters,
  - easy assembly and wiring.

Mini contactors

3-pole contactors, for all industrial applications and motor starting

3-pole or 4-pole

New

New

New

IEC	AC-3 Rated operational power	θ ≤ 55 °C*, 400 V	**kW**	4	5.5	4	5.5	7.5	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45	55	75	90
UL/CSA	3-phase motor rating	480 V	**hp**	3	5	5	7.5	10	5	7.5	10	15	20	20	30	40	60	60	60	75	100	125
AC Control supply			Type	B6	B7	AS09	AS12	AS16	AF09	AF12	AF16	AF26	AF30	AF38	A40	A50	A63	A75	A95	A110	A145	A185
DC Control supply			Type	BC6	BC7	ASL09	ASL12	ASL16	AF09	AF12	AF16	AF26	AF30	AF38	AL40	AE50	AE63	AE75	AF95	AF110	AF145	AF185
AC / DC Control supply			Type	–	–	–	–	–	AF09	AF12	AF16	AF26	AF30	AF38	–	AF50	AF63	AF75	AF95	AF110	AF145	AF185
IEC	AC-3 Rated operational current	θ ≤ 55 °C*, 400 V	**A**	9	12	9	12	15.5	9	12	18	26	32	38	37	50	65	75	96	110	145	185
	AC-1 Rated operational current	θ ≤ 40 °C, 690 V	**A**	16 (400 V)	20 (400 V)	22	24	24	25	28	30	45	50	50	60	100	115	125	145	160	250	275
UL/CSA	General use rating	600 V	**A**	12 (300 V)	16	20	20	20	25	28	30	45	50	50	60	80	90	105	125	140	230	250
NEMA	NEMA Size			–	–	00	00	0	00	0	–	1	–	–	–	2	–	3	–	–	4	–

* θ ≤ 60 °C for AS(L)09 ... AS(L)16 and AF09 ... AF38 contactors

Main accessories

Auxiliary contact blocks	Front mounting	**CAF6**	**CA3-10** (1 x N.O.), **CA3-01** (1 x N.C.)		**CA4-10** (1 x N.O.), **CA4-01** (1 x N.C.)							**CA5-10** (1 x N.O.), **CA5-01** (1 x N.C.)								
	Side mounting	**CA6**			**CAL4-11** (1 x N.O. + 1 x N.C.)							**CAL5-11** (1 x N.O. + 1 x N.C.)						**CAL18-11** (1 x N.O. + 1 x N.C.)		
Timers	Pneumatic (Front mounting)											**TP40DA, TP180DA** Direct timing **TP40IA, TP180IA** Inverse timing								
	Electronic		**TEF3-ON, TEF3-OFF**																
Interlocking units (1)	Mechanical		**VM3**		**VM4**							**VM5-1**							**VM300H / VM300V**
	Mechanical / Electrical				**VEM4**							**VE5-1**			**VE5-2**				
Connection sets	For reversing contactors	**BSM6-30**	**BER16C-3**		**BER16-4**			**BER38-4**				**BER40V**			**BEM75-30**			**BEM110-30**	**BEM185-30**
Surge suppressors	Varistor (AC/DC)	**RV-BC6**	**RV5** (24...440 V)									**RV5** (24...440 V)							
AF contactors have built-in surge protection	RC type (AC)		**RC5-1** (24...440 V)									**RC5-1** (24...440 V)			**RC5-2** (24...440 V)				**RC5-3** (250...440V)
	Transil diode (DC)	**RD7**	**RT5** (12...264 V)									**RT5** (12...264 V)							

(1) See available reversing contactors VB6, VB7 and VAS09 ... VAS16

Overload relays

Thermal relays	Class 10 (10A or 20 for TA42DU to TA80DU)	**T16** (0.10...16 A)	**T16** (0.10...16 A)		**TF42** (0.10...38 A)							**TA42DU** (18...42 A)		**TA75DU** (18...80 A)			**TA80DU** (29...80 A) **TA110DU** (65...110 A)		**TA200DU** (66...200 A)
Accessories for thermal overload relays	Remote tripping coil																		
	Remote reset coil																		
	Wall/separate mounting kit	**DB16**	**DB16**		**DB42**							**DB80**					**DB80, DB200**		**DB200**
Electronic relays	Class 10E, 20E, 30E	**E16DU** (0.10...18.9 A)			**EF19** (0.10...18.9 A)			**EF19** (0.10...18.9 A), **EF45** (9...45 A)				**E45DU** (9...45 A)		**E80DU** (27...80 A)			**E140DU** (50...140 A)		**E200DU** (60...200 A)
Accessories for electronic overload relays	Wall/separate mounting kit	**DB16E**			**DB16E** (to use with E16DU), **DB45** (to use with E45DU)							**DB45E, DB80E**					**DB140E**		

Manual motor starters

	Thermal / magnetic protection	Class 10	**MS116** for class 10A (0.10...32 A) Ics up to 50 kA										**MS450** (28...50 A) Ics up to 50 kA						
			MS132 (0.10...32 A) Ics up to 100 kA												**MS495** (45...100 A) Ics up to 50 kA				
													MS497 (22...100 A) Ics up to 100 kA						
		Class 20											**MS451** (11...50 A) Ics up to 50 kA						
															MS496 (28...100 A) Ics up to 100 kA				
	Magnetic only types		**MO132** (0.16...32 A)										**MO450** (40...50 A) Ics up to 50 kA		**MO495** (63...100 A) Ics up to 50 kA				
													MO496 (16...100 A) Ics up to 100 kA						
Accessories	For contactor mounting	**BEA7/132**	**BEA16-3**		**BEA16-4**			**BEA38-4**					**BEA40/450**		**BEA50/450, BEA75/495**				
	Auxiliary trip units, auxiliary contacts, busbars	**HKF1, HK1, UA1, AA1, PS1, S1, SK1, CK1** (MS132, MO132 only)	**HKF1, HK1, UA1, AA1, PS1, S1, SK1, CK1** (MS132, MO132 only)										**HK4, HKS4, UA4, AA4, PS4, S4, SK4**						

Circuit breakers

Tmax Circuit breaker and accessories