

# 3-pole contactor overview

## Mini contactors



## Contactors for motor control and power switching



IEC (1)	AC-3 Rated operational power	≤ 60 °C (2), 400 V	kW	4	5.5	4	5.5	7.5	4	5.5	7.5	11	15	18.5
UL/CSA	3-phase motor rating	480 V	hp	3	5	5	7.5	10	5	7.5	10	15	20	25
AC / DC Control supply			Type	—	—	—	—	—	AF09	AF12	AF16	AF26	AF30	AF38
AC Control supply			Type	B6	B7	AS09	AS12	AS16	AF09	AF12	AF16	AF26	AF30	AF38
DC Control supply			Type	BC6	BC7	ASL09	ASL12	ASL16	AF09	AF12	AF16	AF26	AF30	AF38
IEC	AC-3 Rated operational current	≤ 60 °C (2), 400 V	A	8.5	11.5	9	12	15.5	9	12	18	26	32	38
	AC-1 Rated operational current	≤ 40 °C, 690 V	A	20 (400 V)	20 (400 V)	22	24	24	25	28	30	45	50	50
UL/CSA	General use rating	600 V	A	12 (300 V)	16	20	20	20	25	28	30	45	50	50
NEMA	NEMA Size			—	—	00	00	0	00	0	—	1	—	—

<sup>(1)</sup> 1000 V IEC ratings available for AF146 ... AF2650 contactors.

<sup>(2)</sup> ≤ 55 °C for mini contactors and AF400 ... AF2650 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.)	
	Side mounting	CA6		CAL4-11 (1 x N.O. + 1 x N.C.)	
Timers	Electronic		TEF3-ON TEF3-OFF	TEF4-ON TEF4-OFF	
Interlocking units <sup>(3)</sup>	Mechanical		VM3	VM4	
	Mechanical / Electrical			VEM4	
Connection sets	For reversing contactors	BSM6-30	BER16C-3	BER16-4	BER38-4
Surge suppressors	Varistor (AC/DC)	RV-BC6	RV5 (24...440 V)	Built-in surge protection	
	RC type (AC)		RC5-1 (24...440 V)		
	Transil diode (DC)	RD7	RT5 (12...264 V)		

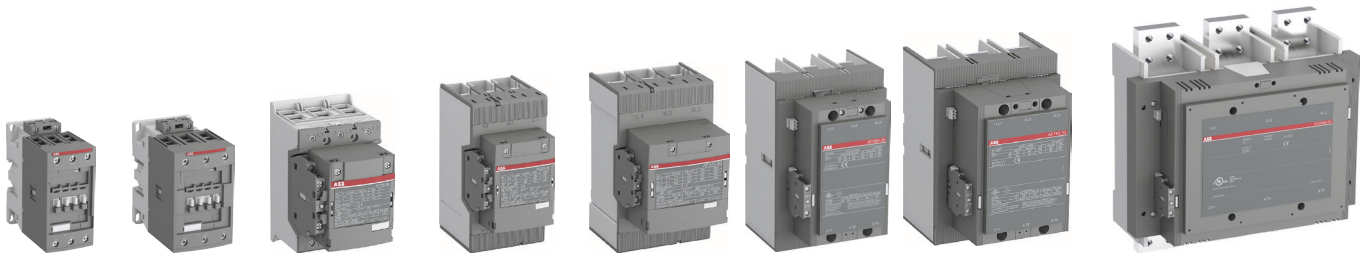
<sup>(3)</sup> See available reversing contactors VB6, VB7 and VAS09 ... VAS16.

## Overload relays

Thermal relays		Class 10 (Class 10A for TF140, TA200DU)	T16 (0.10...16 A)	T16 (0.10...16 A)	TF42 (0.10...38 A)
Electronic relays		Class 10E, 20E, 30E	E16DU (0.10...18.9 A)		EF19 (0.10...18.9 A) EF45 (9...45 A)

## Manual motor starters

	Thermal / magnetic protection Class 10	MS116 (0.10...32 A) Ics up to 50 kA for class 10A	MS116 (0.10...32 A) Ics up to 50 kA for class 10 A	MS450 (28...50 A) Ics up to 50 kA	
		MS132 (0.10...32 A) Ics up to 100 kA	MS132 (0.10...32 A) Ics up to 100 kA	MS497 (22...100 A) Ics up to 100 kA	
	Magnetic only types	M0132 (0.16...32A)	M0132 (0.16...32 A) Ics up to 100 kA		
Accessories	For contactor mounting	BEA7/132	BEA16-3	BEA16-4	BEA38-4



18.5	22	30	37	45	55	75	75	90	110	132	160	200	200	250	315	400	—	475	560	—	—
30	40	50	60	60	75	100	100	125	150	200	250	300	350	400	500	600	—	800	900	—	—
AF40	AF52	AF65	AF80	AF96	AF116	AF140	AF146	AF190	AF205	AF265	AF305	AF370	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
AF40	AF52	AF65	AF80	AF96	AF116	AF140	AF146	AF190	AF205	AF265	AF305	AF370	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
AF40	AF52	AF65	AF80	AF96	AF116	AF140	AF146	AF190	AF205	AF265	AF305	AF370	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050	AF2650
40	53	65	80	96	116	140	146	190	205	265	305	370	400	460	580	750	—	860	1050	—	—
70	100	105	125	130	160	200	225	275	350	400	500	600	600	700	800	1050	1260	1350	1650	2050	2650
60	80	90	105	115	160	200	200	250	300	350	400	520	550	650	750	900	1210	1350	1650	2100	2700
2	—	—	3	—	—	4	—	—	—	5	—	—	—	6	—	7	—	—	8	—	—

		CAL19-11 (1 x N.O. + 1 x N.C.)		CAL18-11 (1 x N.O. + 1 x N.C.)		
VM96-4	VM19 (for same size contactors)			VM750H	VM750V	VM1650H
BER65-4	BER96-4	BER140-4	BER205-4	BER370-4	BEM460-30	BEM750-30

TF65 (22...67 A)	TF96 (40...96 A)	TF140DU (66...142 A) ≤ 55 °C	TA200DU (66...200 A) ≤ 55 °C				
EF65 (20...70 A)	EF96 (36...100 A)	EF146 (54...150 A)	EF205 (63...210 A)	EF370 (115...380 A)	EF460 (150...500 A)	EF750 (250...800 A)	E1250DU (375...1250 A)

### Short-circuit protection devices

MS495 (45...100 A) lcs up to 50 kA	
M0496 (32...100 A) lcs up to 100 kA	
M0450 (40...50 A) lcs up to 50 kA	M0495 (63...100 A) lcs up to 50 kA

MCCB and switch-fuses

