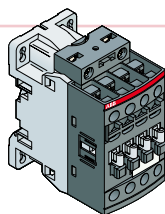


AF09 ... AF38 3-pole Contactors

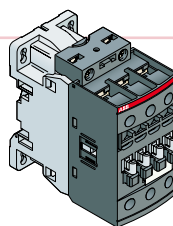
up to 18.5 kW / 20 hp



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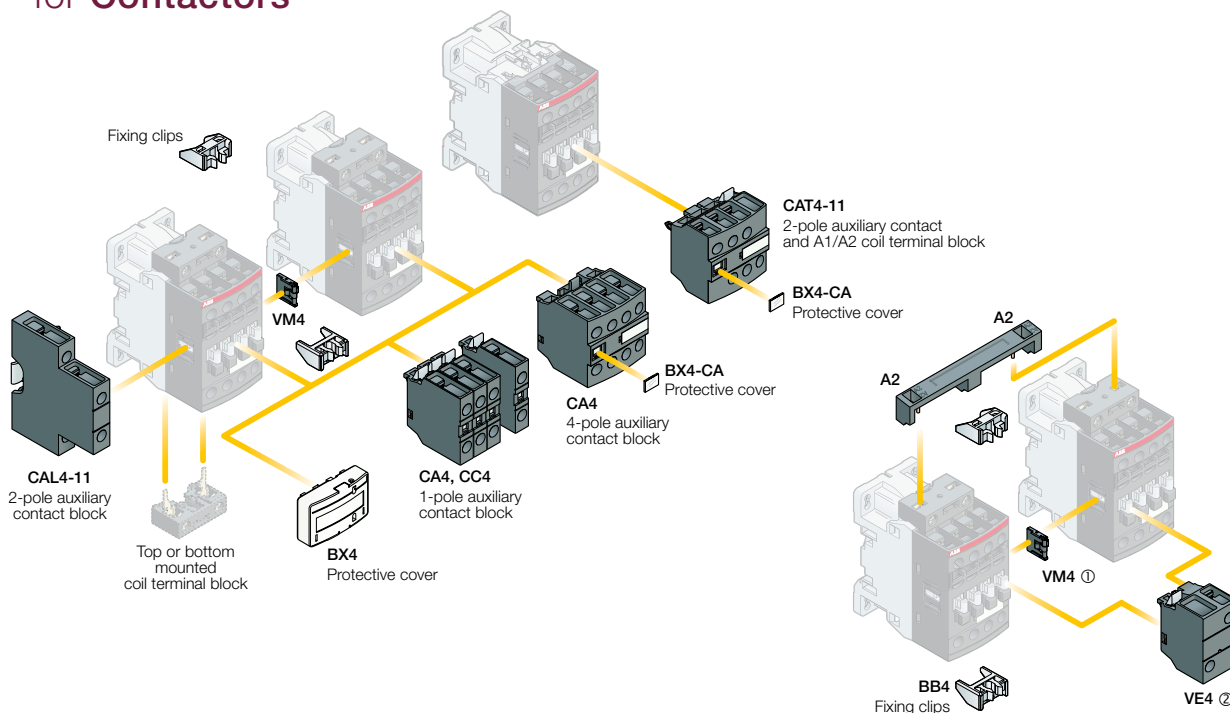


AF09 ... AF16
3-pole contactors



AF26 ... AF38
3-pole contactors

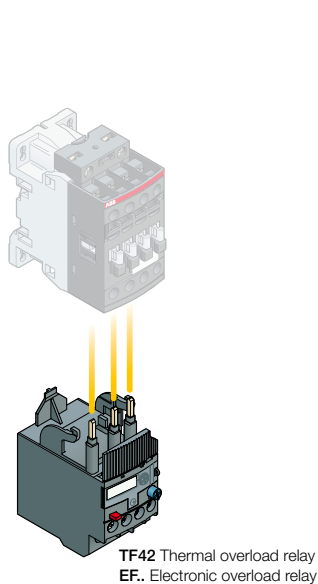
for Contactors



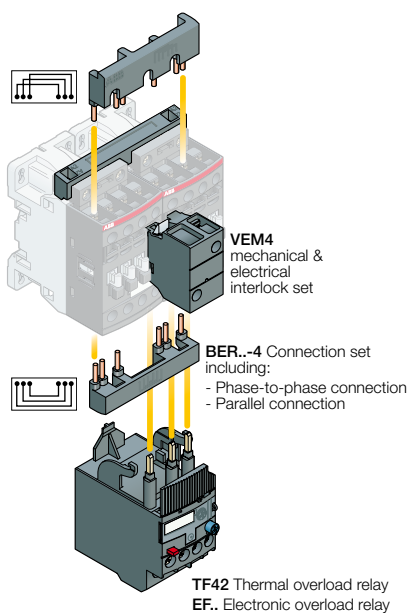
VEM4 mechanical and electrical interlock set including:
① **VM4** mechanical interlock unit including 2 fixing clips (**BB4**)
② **VE4** electrical interlock block with A2-A2 connection

for Starting Solutions

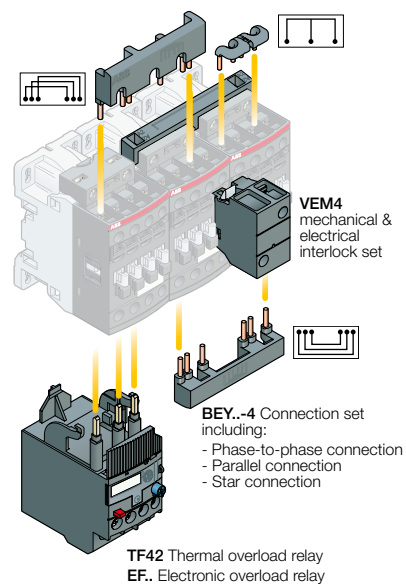
Direct-On-Line Starter



Reversing Starter



Star-Delta Starter



3-pole Contactors



AC / DC control voltage

AF09	AF12	AF16
AF09-30-10	AF12-30-10	AF16-30-10
AF09-30-01	AF12-30-01	AF16-30-01

AF26	AF30	AF38
AF26-30-00	AF30-30-00	AF38-30-00

Switching of 3-phase Cage Motors

	IEC	AC-3	Rated power	400 V
			Rated	$\theta \leq 60\text{ }^{\circ}\text{C}$ 400 V
			operational	$\theta \leq 60\text{ }^{\circ}\text{C}$ 415 V
			current	$\theta \leq 60\text{ }^{\circ}\text{C}$ 690 V
	UL/CSA	Motor rating	480 V	
		Nema size		

4 kW	5.5 kW	7.5 kW
9 A	12 A	18 A
9 A	12 A	18 A
7 A	9 A	10.5 A
5 hp	7.5 hp	10 hp
00	0	-

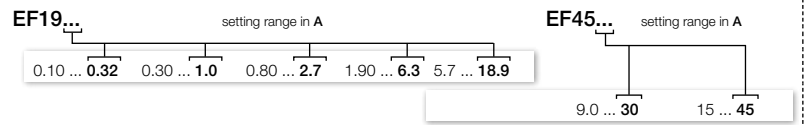
11 kW	15 kW	18.5 kW
26 A	32 A	38 A
26 A	32 A	38 A
17 A	21 A	24 A
15 hp	20 hp	20 hp
1	-	-

Protection of 3-phase motors

Thermal overload relays

Electronic overload relays

TF42...



Switching of Resistive Circuits

	IEC	AC-1	Rated operational current	$\theta \leq 40^{\circ}\text{C}$	690 V
				$\theta \leq 60^{\circ}\text{C}$	690 V
				$\theta \leq 70^{\circ}\text{C}$	690 V
			With conductor cross-sectional area		
	UL/CSA	General use rating			600 V AC
	With conductor cross-sectional area				

25 A	28 A	30 A
25 A	28 A	30 A
22 A	24 A	26 A
4 mm ²	6 mm ²	6 mm ²
25 A	28 A	30 A
AWG 10	AWG 10	AWG 10

45 A	50 A	50 A
40 A	42 A	42 A
32 A	37 A	37 A
10 mm ²	10 mm ²	10 mm ²
45 A	50 A	50 A
AWG 8	AWG 8	AWG 8

Main Accessories

Auxiliary contact blocks	Front mounting	
	Side mounting	
Interlocks	Mechanical / electrical	
	Mechanical	
Connection sets	Reversing Starters	
	Star-Delta Starters	

1-pole CA4-10 or CA4-01, CC4-10 or CC4-01	
4-pole CA4	
2-pole CAT4-11 (with coil front connection)	
2-pole CAL4-11	
VEM4 including VM4 mechanical interlock unit and VE4 electrical interlock block with A2-A2 connection	
VM4 including 2 fixing clips	
BER16-4	BER38-4
BEY16-4	BEY38-4

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AF09 ... AF38 3-pole Contactors

AC / DC Operated - with Screw Terminals

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		4 to 18.5 kW 5 to 20 hp
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AF09-30-10



AF26-30-00

Application

AF09 ... AF38 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads.

Description

- **AF09 ... AF38** contactors include an electronic coil interface accepting a wide control voltage U_c min. ... U_c max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 V DC
- **AF** contactors can manage large control voltage variations. One coil (e.g. 100...250 V 50/60 Hz - DC) can be used for different control voltages used worldwide without any coil change
- **AF..Z** contactors equipped with a **Z** coil type allow direct control by 24 V DC 500 mA PLC-output and obtain a reduced holding coil consumption.
- **AF..Z** contactors withstand short dips and voltage interruptions (SEMI F47-0706 compliance)
- **AF** contactors have built-in surge protection and do not require additional surge suppressors
- The built-in N.C. auxiliary contact is a mirror contact in compliance with annex F of IEC 60947-4-1.

Ordering Details

IEC	UL/CSA	Control voltage U_c min. ... U_c max.		Auxiliary contacts fitted	Type	Order code	Weight
Rated power	3-phase motor rating						Pack ^(ing)
400 V AC-3	480 V	V 50/60 Hz	V DC	 			1 piece kg
4	5	24...60	20...60	1 0	AF09Z-30-10-21	1SBL 136 001 R2110	0.310
		24...60	20...60	0 1	AF09Z-30-01-21	1SBL 136 001 R2101	0.310
		48...130	48...130	1 0	AF09-30-10-12	1SBL 137 001 R1210	0.270
		48...130	48...130	0 1	AF09-30-01-12	1SBL 137 001 R1201	0.270
		100...250	100...250	1 0	AF09-30-10-13	1SBL 137 001 R1310	0.270
		100...250	100...250	0 1	AF09-30-01-13	1SBL 137 001 R1301	0.270
		250...500	250...500	1 0	AF09-30-10-14	1SBL 137 001 R1410	0.310
		250...500	250...500	0 1	AF09-30-01-14	1SBL 137 001 R1401	0.310
5.5	7.5	24...60	20...60	1 0	AF12Z-30-10-21	1SBL 156 001 R2110	0.310
		24...60	20...60	0 1	AF12Z-30-01-21	1SBL 156 001 R2101	0.310
		48...130	48...130	1 0	AF12-30-10-12	1SBL 157 001 R1210	0.270
		48...130	48...130	0 1	AF12-30-01-12	1SBL 157 001 R1201	0.270
		100...250	100...250	1 0	AF12-30-10-13	1SBL 157 001 R1310	0.270
		100...250	100...250	0 1	AF12-30-01-13	1SBL 157 001 R1301	0.270
		250...500	250...500	1 0	AF12-30-10-14	1SBL 157 001 R1410	0.310
		250...500	250...500	0 1	AF12-30-01-14	1SBL 157 001 R1401	0.310
7.5	10	24...60	20...60	1 0	AF16Z-30-10-21	1SBL 176 001 R2110	0.310
		24...60	20...60	0 1	AF16Z-30-01-21	1SBL 176 001 R2101	0.310
		48...130	48...130	1 0	AF16-30-10-12	1SBL 177 001 R1210	0.270
		48...130	48...130	0 1	AF16-30-01-12	1SBL 177 001 R1201	0.270
		100...250	100...250	1 0	AF16-30-10-13	1SBL 177 001 R1310	0.270
		100...250	100...250	0 1	AF16-30-01-13	1SBL 177 001 R1301	0.270
		250...500	250...500	1 0	AF16-30-10-14	1SBL 177 001 R1410	0.310
		250...500	250...500	0 1	AF16-30-01-14	1SBL 177 001 R1401	0.310
11	15	24...60	20...60	0 0	AF26Z-30-00-21	1SBL 236 001 R2100	0.350
		48...130	48...130	0 0	AF26-30-00-12	1SBL 237 001 R1200	0.310
		100...250	100...250	0 0	AF26-30-00-13	1SBL 237 001 R1300	0.310
		250...500	250...500	0 0	AF26-30-00-14	1SBL 237 001 R1400	0.350
15	20	24...60	20...60	0 0	AF30Z-30-00-21	1SBL 276 001 R2100	0.350
		48...130	48...130	0 0	AF30-30-00-12	1SBL 277 001 R1200	0.310
		100...250	100...250	0 0	AF30-30-00-13	1SBL 277 001 R1300	0.310
		250...500	250...500	0 0	AF30-30-00-14	1SBL 277 001 R1400	0.350
18.5	20	24...60	20...60	0 0	AF38Z-30-00-21	1SBL 296 001 R2100	0.350
		48...130	48...130	0 0	AF38-30-00-12	1SBL 297 001 R1200	0.310
		100...250	100...250	0 0	AF38-30-00-13	1SBL 297 001 R1300	0.310
		250...500	250...500	0 0	AF38-30-00-14	1SBL 297 001 R1400	0.350

AF09 ... AF38 3-pole Contactors - AF..Z Additional Coils

AC / DC Operated - with Screw Terminals

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AF09Z-30-10



AF26Z-30-00

Application

AF09Z ... AF38Z contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads.

Description

- **AF09Z ... AF38Z** contactors include an electronic coil interface accepting a wide control voltage U_c min. ... U_c max and managing large control voltage variations.
- **AF..Z** contactors cover control voltages comprised between 24...250 V 50/60 Hz or 12...250 V DC
- **AF..Z** contactors allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption.
- **AF..Z** contactors withstand short dips and voltage interruptions (SEMI F47-0706 compliance)
- **AF..Z** contactors have built-in surge protection and do not require additional surge suppressors
- The built-in N.C. auxiliary contact is a mirror contact in compliance with annex F of IEC 60947-4-1.

Ordering Details

IEC Rated power 400 V AC-3 kW	UL/CSA 3-phase motor rating 480 V hp	Control voltage U_c min. ... U_c max.		Auxiliary contacts fitted 	Type	Order code	Weight Pack(ing) 1 piece kg
		V 50/60 Hz	V DC				
4	5	-	12...20	1 0	AF09Z-30-10-20	1SBL 136 001 R2010	0.310
		-	12...20	0 1	AF09Z-30-01-20	1SBL 136 001 R2001	0.310
		24...60	20...60	1 0	AF09Z-30-10-21	1SBL 136 001 R2110	0.310
		24...60	20...60	0 1	AF09Z-30-01-21	1SBL 136 001 R2101	0.310
		48...130	48...130	1 0	AF09Z-30-10-22	1SBL 136 001 R2210	0.310
		48...130	48...130	0 1	AF09Z-30-01-22	1SBL 136 001 R2201	0.310
		100...250	100...250	1 0	AF09Z-30-10-23	1SBL 136 001 R2310	0.310
		100...250	100...250	0 1	AF09Z-30-01-23	1SBL 136 001 R2301	0.310
5.5	7.5	-	12...20	1 0	AF12Z-30-10-20	1SBL 156 001 R2010	0.310
		-	12...20	0 1	AF12Z-30-01-20	1SBL 156 001 R2001	0.310
		24...60	20...60	1 0	AF12Z-30-10-21	1SBL 156 001 R2110	0.310
		24...60	20...60	0 1	AF12Z-30-01-21	1SBL 156 001 R2101	0.310
		48...130	48...130	1 0	AF12Z-30-10-22	1SBL 156 001 R2210	0.310
		48...130	48...130	0 1	AF12Z-30-01-22	1SBL 156 001 R2201	0.310
		100...250	100...250	1 0	AF12Z-30-10-23	1SBL 156 001 R2310	0.310
		100...250	100...250	0 1	AF12Z-30-01-23	1SBL 156 001 R2301	0.310
7.5	10	-	12...20	1 0	AF16Z-30-10-20	1SBL 176 001 R2010	0.310
		-	12...20	0 1	AF16Z-30-01-20	1SBL 176 001 R2001	0.310
		24...60	20...60	1 0	AF16Z-30-10-21	1SBL 176 001 R2110	0.310
		24...60	20...60	0 1	AF16Z-30-01-21	1SBL 176 001 R2101	0.310
		48...130	48...130	1 0	AF16Z-30-10-22	1SBL 176 001 R2210	0.310
		48...130	48...130	0 1	AF16Z-30-01-22	1SBL 176 001 R2201	0.310
		100...250	100...250	1 0	AF16Z-30-10-23	1SBL 176 001 R2310	0.310
		100...250	100...250	0 1	AF16Z-30-01-23	1SBL 176 001 R2301	0.310
11	15	-	12...20	0 0	AF26Z-30-00-20	1SBL 236 001 R2000	0.350
		24...60	20...60	0 0	AF26Z-30-00-21	1SBL 236 001 R2100	0.350
		48...130	48...130	0 0	AF26Z-30-00-22	1SBL 236 001 R2200	0.350
		100...250	100...250	0 0	AF26Z-30-00-23	1SBL 236 001 R2300	0.350
15	20	-	12...20	0 0	AF30Z-30-00-20	1SBL 276 001 R2000	0.350
		24...60	20...60	0 0	AF30Z-30-00-21	1SBL 276 001 R2100	0.350
		48...130	48...130	0 0	AF30Z-30-00-22	1SBL 276 001 R2200	0.350
		100...250	100...250	0 0	AF30Z-30-00-23	1SBL 276 001 R2300	0.350
18.5	20	-	12...20	0 0	AF38Z-30-00-20	1SBL 296 001 R2000	0.350
		24...60	20...60	0 0	AF38Z-30-00-21	1SBL 296 001 R2100	0.350
		48...130	48...130	0 0	AF38Z-30-00-22	1SBL 296 001 R2200	0.350
		100...250	100...250	0 0	AF38Z-30-00-23	1SBL 296 001 R2300	0.350

Note: Only AF..Z contactors with DC control voltage 12...20 V DC need to respect the connection polarities indicated close to the coil terminals: A1+ for the positive pole and A2- for the negative pole

AF09 ... AF38 3-pole Contactors

Technical Data

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Main Pole - Utilization Characteristics according to IEC

Contactor types	AF09	AF12	AF16	AF26	AF30	AF38
Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1					
Rated operational voltage U_e max.	690 V					
Rated frequency limits	25 ... 400 Hz					
Conventional free-air thermal current I_{th}						
acc. to IEC 60947-4-1, open contactors, $\theta \leq 40^\circ\text{C}$	35 A	35 A	35 A	50 A	50 A	50 A
with conductor cross-sectional area	6 mm ²	6 mm ²	6 mm ²	10 mm ²	10 mm ²	10 mm ²
AC-1 Utilization category						
for air temperature close to contactor						
I_e / AC-1 rated operational current	$\theta \leq 40^\circ\text{C}$	25 A	28 A	30 A	45 A	50 A
U_e max. $\leq 690\text{ V}$, 50/60 Hz	$\theta \leq 60^\circ\text{C}$	25 A	28 A	30 A	40 A	42 A
	$\theta \leq 70^\circ\text{C}$	22 A	24 A	26 A	32 A	37 A
with conductor cross-sectional area		4 mm ²	6 mm ²	6 mm ²	10 mm ²	10 mm ²
AC-3 Utilization category						
for air temperature close to contactor $\theta \leq 60^\circ\text{C}$						
(for 1500 r.p.m., 50 Hz or 1800 r.p.m., 60 Hz, 3-phase motors)						
I_e / AC-3 max. rated operational current	220-230-240 V	9 A	12 A	18 A	26 A	33 A
	380-400 V	9 A	12 A	18 A	26 A	32 A
	415 V	9 A	12 A	18 A	26 A	32 A
	440 V	9 A	12 A	18 A	26 A	32 A
	500 V	9.5 A	12.5 A	15 A	23 A	28 A
	690 V	7 A	9 A	10.5 A	17 A	21 A
AC-3 rated operational power	220-230-240 V	2.2 kW	3 kW	4 kW	6.5 kW	9 kW
	380-400 V	4 kW	5.5 kW	7.5 kW	11 kW	15 kW
	415 V	4 kW	5.5 kW	9 kW	11 kW	15 kW
	440 V	4 kW	5.5 kW	9 kW	15 kW	18.5 kW
	500 V	5.5 kW	7.5 kW	9 kW	15 kW	18.5 kW
	690 V	5.5 kW	7.5 kW	9 kW	15 kW	18.5 kW
Rated making capacity AC-3	10 x I_e AC-3 acc. to IEC 60947-4-1					
Rated breaking capacity AC-3	8 x I_e AC-3 acc. to IEC 60947-4-1					
AC-8a Utilization category						
(without thermal overload relay - U_e 400 V - $\theta \leq 40^\circ\text{C}$)						
I_e / AC-8a rated operational current		12 A	16 A	22 A	30 A	40 A
AC-8a rated operational power		5.5 kW	7.5 kW	11 kW	15 kW	20 kW
Short-circuit protection for contactors						
without thermal O/L relay - Motor protection excluded						
$U_e \leq 500\text{ V AC}$ - gG type fuse		25 A	32 A	32 A	50 A	63 A
Rated short-time withstand current I_{cw}		300 A	300 A	300 A	700 A	700 A
at 40°C ambient temperature, in free air from a cold state	1 s	150 A	150 A	150 A	350 A	350 A
	10 s	80 A	80 A	80 A	225 A	225 A
	30 s	60 A	60 A	60 A	150 A	150 A
	1 min	35 A	35 A	35 A	50 A	50 A
	15 min	250 A	250 A	250 A	500 A	500 A
Maximum breaking capacity	at 440 V	106 A	106 A	106 A	200 A	200 A
$\cos \varphi = 0.45$	at 690 V	0.8 W	1 W	1.2 W	1.8 W	2.4 W
Heat dissipation per pole	I_e / AC-1	0.1 W	0.2 W	0.35 W	0.6 W	0.9 W
	I_e / AC-3					
Max. electrical switching frequency	AC-1	600 cycles/h				
	AC-3	1200 cycles/h				
	AC-2, AC-4	300 cycles/h			150 cycles/h	

AF09 ... AF38 3-pole Contactors

Technical Data

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Built-in Auxiliary Contacts according to IEC

Contactor types		AF09	AF12	AF16	AF26	AF30	AF38
Rated operational voltage U _e max.		690 V					
Conventional free air thermal current I _{th} - θ ≤ 40 °C		16 A					
Rated frequency limits		25 ... 400 Hz					
Rated operational current I _e / AC-15							
acc. to IEC 60947-5-1	24-127 V 50/60 Hz	6 A					
	220-240 V 50/60 Hz	4 A					
	400-440 V 50/60 Hz	3 A					
	500 V 50/60 Hz	2 A					
	690 V 50/60 Hz	2 A					
Making capacity AC-15		10 x I _e AC-15 acc. to IEC 60947-5-1					
Breaking capacity AC-15		10 x I _e AC-15 acc. to IEC 60947-5-1					
Rated operational current I _e / DC-13							
acc. to IEC 60947-5-1	24 V DC	6 A / 144 W					
	48 V DC	2.8 A / 134 W					
	72 V DC	1 A / 72 W					
	110 V DC	0.55 A / 60 W					
	125 V DC	0.55 A / 69 W					
	220 V DC	0.27 A / 60 W					
	250 V DC	0.27 A / 68 W					
	400 V DC	0.15 A / 60 W					
	500 V DC	0.13 A / 65 W					
	600 V DC	0.1 A / 60 W					
Short-circuit protection gG type fuse		10 A					
Rated short-time withstand current I _{cw}		for 1.0 s	100 A				
		for 0.1 s	140 A				
Minimum switching capacity		12 V / 3 mA					
with failure rate acc. to IEC 60947-5-4		10 ⁻⁷					
Non-overlapping time between N.O. and N.C. contacts		≥ 2 ms					
Heat dissipation per pole at 6 A		0.1 W					
Max. electrical switching frequency		AC-15	1200 cycles/h				
		DC-13	900 cycles/h				

AF09 ... AF38 3-pole Contactors

Technical Data

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Main Pole - Utilization Characteristics according to UL / NEMA / CSA

Contactor types		AF09	AF12	AF16	AF26	AF30	AF38
Standards		UL 508, CSA C22.2 N°14					
Rated operational voltage U _e max.		600 V					
NEMA size		00	0	-	1	-	-
NEMA continuous amp rating	thermal current	9 A	18 A		27 A		
NEMA maximum H.P. ratings 1-phase, 60 Hz	115 V AC	1/3 hp	1 hp		2 hp		
	230 V AC	1 hp	2 hp		3 hp		
NEMA maximum H.P. ratings 3-phase, 60 Hz	200 V AC	1-1/2 hp	3 hp		7-1/2 hp		
	230 V AC	1-1/2 hp	3 hp		7-1/2 hp		
	460 V AC	2 hp	5 hp		10 hp		
	575 V AC	2 hp	5 hp		10 hp		
UL General use rating							
600 V AC		25 A	28 A	30 A	45 A	50 A	50 A
With conductor cross-sectional area		AWG 10	AWG 10	AWG 10	AWG 8	AWG 8	AWG 8
80 V DC - 1-pole		25 A	28 A	30 A	45 A	50 A	50 A
With conductor cross-sectional area		AWG 10	AWG 10	AWG 10	AWG 8	AWG 8	AWG 8
UL maximum 1-phase motor rating							
Amp-rating	120 V AC	13.8 A	16 A	20 A	24 A	24 A	24 A
	240 V AC	10 A	12 A	17 A	17 A	28 A	28 A
Motor power	120 V AC	3/4 hp	1 hp	1-1/2 hp	2 hp	2 hp	2 hp
	240 V AC	1-1/2 hp	2 hp	3 hp	3 hp	5 hp	5 hp
UL maximum 3-phase motor rating							
Amp-rating	200-208 V AC	7.8 A	11 A	17.5 A	25.3 A	32.2 A	32.2 A
	220-240 V AC	6.8 A	9.6 A	15.2 A	22 A	28 A	28 A
	440-480 V AC	7.6 A	11 A	14 A	21 A	27 A	27 A
	550-600 V AC	9 A	11 A	17 A	22 A	(1)	(1)
Motor power	200-208 V AC	2 hp	3 hp	5 hp	7.5 hp	10 hp	10 hp
(for 1500 r.p.m., 50 Hz or 1800 r.p.m., 60 Hz 3-phase motors)	220-240 V AC	2 hp	3 hp	5 hp	7.5 hp	10 hp	10 hp
	440-480 V AC	5 hp	7.5 hp	10 hp	15 hp	20 hp	20 hp
	550-600 V AC	7.5 hp	10 hp	15 hp	20 hp	(1)	(1)
Short-circuit protection							
for contactors without thermal O/L relay - Motor protection excluded							
Fuse rating		60 A	60 A	60 A	150 A	150 A	150 A
Fuse type, 600 V		NTD					
Max. electrical switching frequency							
for general use		600 cycles/h					
for motor use		1200 cycles/h					
Mechanical durability							
Number of operating cycles		10 millions operating cycles					
Max. switching frequency		3600 cycles/h					

(1) On request

Built-in Auxiliary Contacts according to UL / CSA

Contactor types		AF09	AF12	AF16	AF26	AF30	AF38
Max. rated operational voltage U _e max.		600 V AC, 600 V DC					
Pilot duty		A600, Q600					
AC thermal rated current		10 A					
AC maximum volt-ampere making		7200 VA					
AC maximum volt-ampere breaking		720 VA					
DC thermal rated current		2.5 A					
DC maximum volt-ampere making-breaking		69 VA					

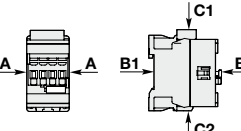
AF09 ... AF38 3-pole Contactors

Technical Data

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General Technical Data

Contactors types	AF09	AF12	AF16	AF26	AF30	AF38
Rated insulation voltage U_i acc. to IEC 60947-4-1	690 V					
acc. to UL / CSA	600 V					
Rated impulse withstand voltage U_{imp}	6 kV					
Electromagnetic compatibility	Devices complying with IEC 60947-1 / EN 60947-1 - Environment A					
Ambient air temperature close to contactor						
Operation	fitted with thermal overload relay					
	without thermal overload relay					
Storage	-40 ... +70 °C					
	-60 ... +80 °C					
Climatic withstand	Category B according to IEC 60947-1 Annex Q					
Operating altitude	≤ 3000 m					
Mechanical durability						
Number of operating cycles	10 millions operating cycles					
Max. switching frequency	3600 cycles/h					
Shock withstand acc. IEC 60068-2-27 and EN 60068-2-27						
Mounting position 1						
	Shock direction 1/2 sinusoidal shock for 11 ms: no change in contact position					
	A 30 g					
	B1 25 g Closed position / 5 g Open position					
	B2 15 g					
	C1 25 g					
	C2 25 g					
Vibration withstand acc. to IEC 60068-2-6	5 ... 300 Hz					
	4 g Closed position / 2 g Open position					

Magnet System Characteristics

Contactors types	AF09	AF12	AF16	AF26	AF30	AF38
Coil operating limits acc. to IEC 60947-4-1						
AC supply	at $\theta \leq 60^\circ\text{C}$ $0.85 \times U_c \text{ min} \dots 1.1 \times U_c \text{ max}$ at $\theta \leq 70^\circ\text{C}$ $0.85 \times U_c \text{ min} \dots U_c \text{ max}$					
DC supply	at $\theta \leq 60^\circ\text{C}$ $0.85 \times U_c \text{ min} \dots 1.1 \times U_c \text{ max}$ at $\theta \leq 70^\circ\text{C}$ (AF) $0.85 \times U_c \text{ min} \dots U_c \text{ max}$ - (AF..Z) $0.85 \times U_c \text{ min} \dots 1.1 \times U_c \text{ max}$					
AC control voltage Rated control circuit voltage U_c	24 ... 500 V AC					
50/60 Hz						
Coil consumption						
Average pull-in value	(AF) 50 VA - (AF..Z) 16 VA					
Average holding value	(AF) 2.2 VA / 2 W - (AF..Z) 1.7 VA / 1.5 W					
DC control voltage Rated control circuit voltage U_c	12 ... 500 V DC					
Coil consumption						
Average pull-in value	(AF) 50 W - (AF..Z) 12 ... 16 W					
Average holding value	(AF) 2 W - (AF..Z) 1.7 W					
PLC-Output control	(AF..Z) $\geq 500 \text{ mA}$ 24 V DC					
Drop-out voltage in % of $U_c \text{ min}$	$\leq 60\%$ $U_c \text{ min}$					
Voltage sag immunity according to SEMI F47-0706	(AF..Z) conditions of use on request					
Dips withstand (level 0% according to IEC 61000-4-11)	(AF..Z) 22 ms average for $U_c = 24 \dots 250 \text{ V}$ 50/60Hz					
-20 °C $\leq \theta \leq$ +60 °C						
Operating time						
between coil energization and:						
N.O. contact closing	40 ... 95 ms					
N.C. contact opening	38 ... 90 ms					
between coil de-energization and:						
N.O. contact opening	11 ... 95 ms					
N.C. contact closing	13 ... 98 ms					

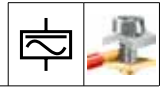
Mounting Characteristics

Contactors types	AF09	AF12	AF16	AF26	AF30	AF38
Mounting positions						
	Max. N.C. built-in and add-on N.C. auxiliary contacts: see accessory fitting details for a 3-pole contactor AF09 ... AF38					
Mounting distances	The contactors can be assembled side by side.					
Fixing						
on rail according to IEC 60715, EN 60715	35 x 7.5 mm or 35 x 15 mm					
by screws (not supplied)	2 x M4 screws placed diagonally					

AF09 ... AF38 3-pole Contactors

Technical Data

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Connecting Characteristics

Contractor types	AF09	AF12	AF16	AF26	AF30	AF38
Main terminals	 Screw terminals with cable clamp					
Connecting capacity (min. ... max.)						
Main conductors (poles)						
 Rigid	solid ($\leq 4 \text{ mm}^2$)		1 x	1 ... 6 mm ²	2.5 ... 10 mm ²	
	stranded ($\geq 6 \text{ mm}^2$)		2 x	1 ... 6 mm ²	2.5 ... 10 mm ²	
 Flexible with non insulated ferrule			1 x	0.75 ... 6 mm ²	1.5 ... 10 mm ²	
			2 x	0.75 ... 6 mm ²	1.5 ... 10 mm ²	
 Flexible with insulated ferrule			1 x	0.75 ... 4 mm ²	1.5 ... 10 mm ²	
			2 x	0.75 ... 2.5 mm ²	1.5 ... 4 mm ²	
 Bars or lugs			L <	9.6 mm	12.5 mm	
Capacity according to UL/CSA			1 or 2 x	AWG 16 ... 10	AWG 14 ... 8	
Stripping length				10 mm	14 mm	
Auxiliary conductors						
(built-in auxiliary terminals + coil terminals)						
 Rigid solid			1 x	1 ... 2.5 mm ²		
			2 x	1 ... 2.5 mm ²		
 Flexible with non insulated ferrule			1 x	0.75 ... 2.5 mm ²		
			2 x	0.75 ... 2.5 mm ²		
 Flexible with insulated ferrule			1 x	0.75 ... 2.5 mm ²		
			2 x	0.75 ... 1.5 mm ²		
 Bars or lugs			L <	8 mm		
Capacity according to UL/CSA			1 or 2 x	AWG 18 ... 14		
Stripping length				10 mm		
Degree of protection						
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529						
Main terminals				IP20		
Coil terminals				IP20		
Built-in auxiliary terminals				IP20		
Screw terminals						
(delivered in open position, screws of unused terminals must be tightened)						
Main terminals				M3.5	M4	
Coil terminals				M3.5		
Built-in auxiliary terminals				M3.5		
Screwdriver type						
Flat Ø5.5 / Pozidriv 2						
Tightening torque						
Main pole terminals				1.5 Nm / 13 lb.in	2.5 Nm / 22 lb.in	
Coil terminals				1.2 Nm / 11 lb.in		
Built-in auxiliary terminals				1.2 Nm / 11 lb.in		

AF09 ... AF38 3-pole Contactors

Main Accessories



Accessory fitting details for a 3-pole contactor AF09 ... AF38

Many configurations of accessories are possible depending on whether these are front-mounted or side-mounted.

Contactor types	Main poles	Built-in auxiliary contacts	Front-mounted accessories					Side-mounted accessories								
			Auxiliary contact blocks			Electrical and mechanical interlock set (between 2 contactors)	Auxiliary contact blocks									
			1-pole CA4 1-pole CC4	2-pole CAT4-11	4-pole CA4		VEM4	Left side 2-pole CAL4-11	Right side							
																
Max. N.C. built-in and add-on N.C. auxiliary contacts: 4 N.C. max. on positions 1, 2, 3, 4 and 3 N.C. max. on positions 1 ±30°, 5																
AF09 ... AF16	3	0	0	1		4 max.	or	1	or	1	–	–	+	1	–	
						2 max.	–	–	–	–	–	+	1	+	1	
						3 max.	–	–	–	+	1	+	1	or	1	
AF09 ... AF16	3	0	1	0		4 max.	or	1	or	1	–	–	+	1	–	
AF26 ... AF38	3	0	0	0		2 max.	or	1	–	–	–	–	+	1	+	1
						3 max.	–	–	–	+	1	+	1	or	1	

Mounting positions

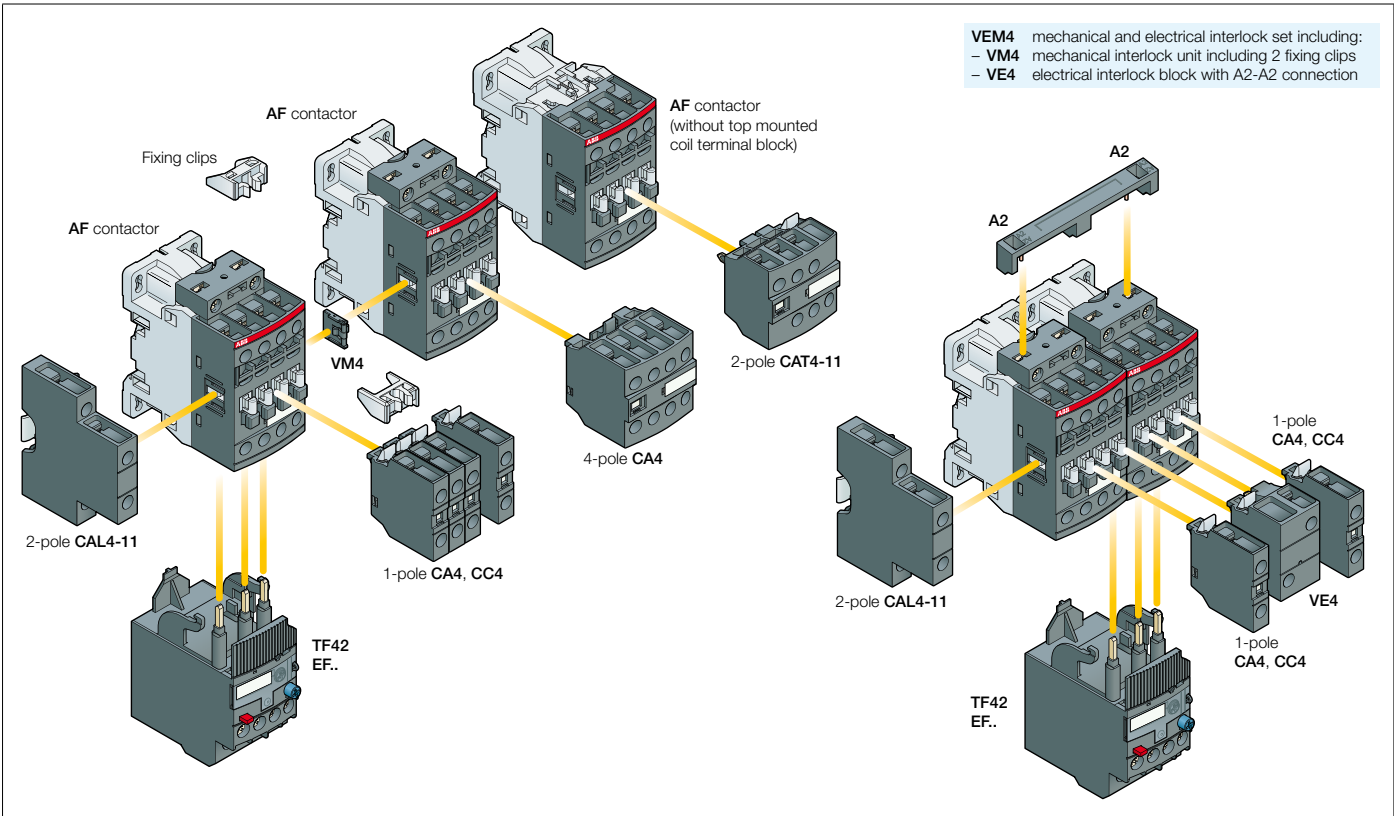


Protection against overloads with thermal or electronic overload relays

The addition of an overload relay on the contactor does not prevent fitting of many other accessories as shown below.

Contactor types	Overload relays - direct mounting - no kit required
AF09 ... AF38	TF42 thermal overload relay
AF09 ... AF38	EF19 electronic overload relay
AF26 ... AF38	EF45 electronic overload relay

Contactors and main accessories (other accessories available)





CA4-10



CA4-22M



CAL4-11



CAT4-11E

Application

The auxiliary contact blocks are used for the operation of auxiliary circuits and control circuits.

Description

Types of auxiliary contact blocks for standard industrial environments:

- **CA4** 1 or 4-pole block, front-mounted, instantaneous with N.O., N.C. contacts
- **CC4** 1-pole block, front-mounted, with N.O. leading contact or N.C. lagging contact
- **CAT4** 2-pole block, front-mounted, instantaneous N.O. + N.C. contacts with A1 / A2 coil terminal connection on front face
- **CAL4** 2-pole block instantaneous N.O. + N.C. contacts clipped onto the right and/or left side of the contactors.

Select the type of 2 or 4-pole auxiliary contact blocks CAT4 or CA4-..E, CA 4-..M or CA 4-..U, according to the contactor type for compliance with the standard requirements (see terminal and marking positioning).

The auxiliary contact blocks are equipped with screw type connecting terminals delivered open, protected against accidental direct contact and bear the corresponding function marking.

Fitting Details - For each contactor refer to "Accessory Fitting Details" table.

Ordering Details

For contactors	Auxiliary contacts	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
	 				

Front-mounted instantaneous auxiliary contact blocks

AF09 ... AF38	1 0 - -	CA4-10	1SBN 010 110 R1010	1	0.014
	1 0 - -	CA4-10-T	1SBN 010 110 T1010	10	0.014
	0 1 - -	CA4-01	1SBN 010 110 R1001	1	0.014
	0 1 - -	CA4-01-T	1SBN 010 110 T1001	10	0.014
AF09 ... AF16...30-10	2 2 - -	CA4-22M	1SBN 010 140 R1122	1	0.055
	3 1 - -	CA4-31M	1SBN 010 140 R1131	1	0.055
	1 3 - -	CA4-13M	1SBN 010 140 R1113	1	0.055
	0 4 - -	CA4-04M	1SBN 010 140 R1104	1	0.055
AF26 ... AF38...30-00	2 2 - -	CA4-22E	1SBN 010 140 R1022	1	0.055
	3 1 - -	CA4-31E	1SBN 010 140 R1031	1	0.055
	4 0 - -	CA4-40E	1SBN 010 140 R1040	1	0.055
	0 4 - -	CA4-04E	1SBN 010 140 R1004	1	0.055
AF09 ... AF16...30-01	2 2 - -	CA4-22U	1SBN 010 140 R1322	1	0.055
	3 1 - -	CA4-31U	1SBN 010 140 R1331	1	0.055
	4 0 - -	CA4-40U	1SBN 010 140 R1340	1	0.055

Front-mounted auxiliary contact blocks with N.O. leading contact and N.C. lagging contact

AF09 ... AF38	- - 1 0	CC4-10	1SBN 010 111 R1010	1	0.014
	- - 0 1	CC4-01	1SBN 010 111 R1001	1	0.014

Side-mounted instantaneous auxiliary contact blocks

AF09 ... AF38	1 1 - -	CAL4-11	1SBN 010 120 R1011	1	0.040
	1 1 - -	CAL4-11-T	1SBN 010 120 T1011	10	0.040

Front-mounted instantaneous auxiliary contact and A1/A2 coil terminal blocks

AF09 ... AF16...30-10	1 1 - -	CAT4-11M	1SBN 010 151 R1111	1	0.040
AF26 ... AF38...30-00	1 1 - -	CAT4-11E	1SBN 010 151 R1011	1	0.040
AF09 ... AF16...30-01	1 1 - -	CAT4-11U	1SBN 010 151 R1311	1	0.040

Note: CAT4 not fittable on AF.Z contactors with DC control voltage 12...20 V DC.

Auxiliary Contact Blocks

Accessories for AF09 ... AF38 3-pole Contactors

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Technical Data

Types	1-pole CA4, 1-pole CC4, 4-pole CA4, 2-pole CAT4, 2-pole CAL4
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Contact Utilization Characteristics according to IEC

Standards	IEC 60947-5-1 and EN 60947-5-1
Rated insulation voltage U_i acc. to IEC 60947-5-1	690 V
Rated impulse withstand voltage U_{imp}	6 kV
Rated operational voltage U_o max.	24 ... 690 V
Conventional thermal current I_{th} - $\theta \leq 40^\circ\text{C}$	16 A
Rated frequency limits	25 ... 400 Hz
Rated operational current I_o / AC-15	24-127 V 50/60 Hz 6 A
acc. to IEC 60947-5-1	220-240 V 50/60 Hz 4 A
	400-440 V 50/60 Hz 3 A
	500 V 50/60 Hz 2 A
	690 V 50/60 Hz 2 A
Making capacity acc. to IEC 60947-5-1	10 x I_o AC-15 acc. to IEC 60947-5-1
Breaking capacity acc. to IEC 60947-5-1	10 x I_o AC-15 acc. to IEC 60947-5-1
Rated operational current I_o / DC-13	24 V DC 6 A / 144 W
acc. to IEC 60947-5-1	48 V DC 2.8 A / 134 W
	72 V DC 1 A / 72 W
	110 V DC 0.55 A / 60 W
	125 V DC 0.55 A / 69 W
	220 V DC 0.27 A / 60 W
	250 V DC 0.27 A / 68 W
	400 V DC 0.15 A / 60 W
	500 V DC 0.13 A / 65 W
	600 V DC 0.1 A / 60 W
Short-circuit protection gG type fuse	10 A
Rated short-time withstand current I_{cw}	for 1.0 s 100 A
$\theta = 40^\circ\text{C}$	for 0.1 s 140 A
Minimum switching capacity	12 V / 3 mA
with failure rate acc. to IEC 60947-5-4	10^{-7}
Heat dissipation per pole at 6 A	0.1 W
Mechanical durability	Number of operating cycles 10 millions operating cycles
	Max. switching frequency 3600 cycles/h
Max. electrical switching frequency	for AC-15 1200 cycles/h
	for DC-13 900 cycles/h

Contact Utilization Characteristics according to UL / CSA

Standards	UL 508, CSA C22.2 N°14
Rated insulation voltage U_i	600 V
Max. rated voltage	600 V AC, 600 V DC
Pilot duty	A600, Q600
AC thermal rated current	10 A
AC maximum volt-ampere making	7200 VA
AC maximum volt-ampere breaking	720 VA
DC thermal rated current	2.5 A
DC maximum volt-ampere making-breaking	69 VA

Connecting Characteristics

Screw terminals	(delivered in open position, screws of unused terminals must be tightened)
All terminals	M3.5
Connecting capacity (min. ... max.)	
 Rigid solid	1 x 1 ... 2.5 mm ²
 Flexible with non insulated ferrule	2 x 1 ... 2.5 mm ²
 Flexible with insulated ferrule	1 x 0.75 ... 2.5 mm ²
 Flexible with insulated ferrule	2 x 0.75 ... 2.5 mm ²
 Flexible with insulated ferrule	1 x 0.75 ... 2.5 mm ²
 Flexible with insulated ferrule	2 x 0.75 ... 1.5 mm ²
 Bars or lugs	L < 8 mm
Capacity acc. to UL/CSA	1 or 2 x AWG 18 ... 14
Stripping length	10 mm
Degree of protection	IP20
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	
Screwdriver type	Flat Ø5.5 / Pozidriv 2
Tightening torque	1.2 Nm / 11 lb.in

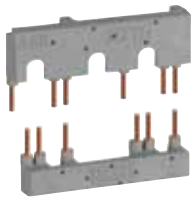
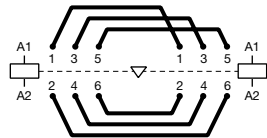
Connexion Accessories for Starting Solutions

Accessories for AF09 ... AF38 3-pole Contactors

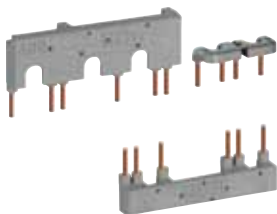
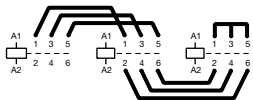
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BEA16-4



BER16-4



BEY16-4

Connecting links with manual motor starters

Description

The **BEA...-4** connecting links are used to connect AF09 ... AF38 contactors with the MS116 or MS132 manual motor starters.

The **BEA...-4** insulated 3-pole connecting links ensure the electrical and mechanical connection between the contactor and the associated manual motor starter.

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF16 with MS116 and MS132	BEA16-4	1SBN 081 306 T1000	10	0.025
AF26 ... AF38 with MS132-12 ... MS132-32	BEA38-4	1SBN 082 306 T2000	10	0.030

Connection sets for reversing contactors

Description

BER16-4 and **BER38-4** connection sets between the main poles of two 3-pole contactors mounted side by side. The connection sets are made up of 1 upstream and 1 downstream connections: insulated, solid copper bars.

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF16	BER16-4	1SBN 081 311 R1000	1	0.045
AF26 ... AF38	BER38-4	1SBN 082 311 R1000	1	0.100

Connection sets for Star-Delta starting

Description

BEY16-4 and **BEY38-4** connection sets between the main poles of the Line, Delta and Star contactors of a Star-Delta starter.

The connection sets are made up of:

- Line contactor / Delta contactor: upstream phase-to-phase connection
- Delta contactor / Star contactor: downstream connection in parallel
- Star contactor: Star point upstream.

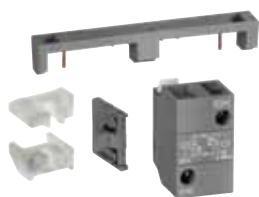
Ordering Details

For Line, Delta and Star contactors	Interlock unit between Delta & Star contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF16	With or without	BEY16-4	1SBN 081 313 R2000	1	0.050
AF26 ... AF38	VM4 or VEM4	BEY38-4	1SBN 082 713 R2000	1	0.110

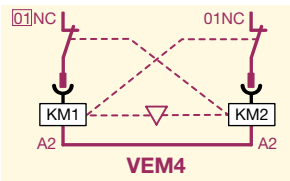
Accessories for AF09 ... AF38 3-pole Contactors



VM4



VEM4



BB4

Mechanical interlock unit

Description

VM4 mechanical interlock unit for the interlocking of two AF contactors. When mounted between two contactors without additional width, the VM4 mechanical interlock unit prevents one of the contactors from closing as long as the other contactor is closed. The mechanical interlock unit includes 2 fixing clips (BB4).

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF38	VM4	1SBN 030 105 T1000	10	0.005

Mechanical and electrical interlock set

Description

VEM4 mechanical and electrical interlock set for the interlocking of two AF contactors. **VEM4** set includes a mechanical interlock unit VM4 with 2 fixing clips (BB4) and a VE4 electrical interlock block with A2-A2 connection. Fixing the electrical interlock block to the contactor front face connects the 2 built-in N.C. interlocking contacts with the two coils. VE4 block must be used with A2-A2 connection to respect the electrical connection diagram.

Ordering Details

For contactors	Auxiliary contacts	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF16 AF26 ... AF38	1 1	VEM4	1SBN 030 111 R1000	1	0.035

Note: VEM4 not fittable on AF..Z contactors with DC control voltage 12...20 V DC.

Fixing clips

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF38	BB4	1SBN 110 120 W1000	50	0.002

Accessories for AF09 ... AF38 3-pole Contactors



Technical Data

Interlock types	VM4
Mechanical durability	
Number of operating cycles	5 millions operating cycles
Max. switching frequency	1800 cycles/h

Interlock types	VEM4
-----------------	------

Contact Utilization Characteristics according to IEC

Standards	IEC 60947-5-1 and EN 60947-5-1
Rated insulation voltage U_i acc. to IEC 60947-5-1	690 V
Rated impulse withstand voltage U_{imp}	6 kV
Rated control circuit voltage U_c	AC 50/60 Hz control voltage 24 ... 500 V AC
	DC control voltage 20 ... 500 V DC
Conventional thermal current $I_{th} - \theta \leq 40^\circ\text{C}$	16 A
Mechanical and electrical durability	
Number of operating cycles	5 millions operating cycles
Max. mechanical switching frequency	1800 cycles/h
Max. electrical switching frequency	1200 cycles/h

Contact Utilization Characteristics according to UL / CSA

Standards	UL 508, CSA C22.2 N°14
Max. rated voltage	500 V AC, 500 V DC

Connecting Characteristics

Screw terminals	
All terminals	M3.5
Connecting capacity (min. ... max.)	
 Rigid Solid	1 x ; 1 ... 2.5 mm ²
 Flexible with non insulated ferrule	2 x ; 1 ... 2.5 mm ²
 Flexible with non insulated ferrule	1 x ; 0.75 ... 2.5 mm ²
 Flexible with non insulated ferrule	2 x ; 0.75 ... 2.5 mm ²
 Flexible with insulated ferrule	1 x ; 0.75 ... 2.5 mm ²
 Flexible with insulated ferrule	2 x ; 0.75 ... 1.5 mm ²
 Bars or lugs	L < 8 mm
Capacity according to UL/CSA	1 or 2 x ; AWG 18 ... 14
Stripping length	10 mm
Degree of protection	
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	IP20
Screwdriver type	Flat Ø5.5 / Pozidriv 2
Tightening torque	1.2 Nm / 11 lb.in

Accessories for AF09 ... AF38 3-pole Contactors



LDC4

Additional coil terminal block

Description

Additional coil terminal block for a bottom access to the coil terminals of contactors or contactor relays.

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
AF09 ... AF38	LDC4	1SBN 070 156 T1000	10	0.010



BX4



BX4-CA

Protective covers

Description

Sealable and transparent protective covers BX4 and non-removable BX4-CA to protect the devices against accidental contact.

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
All 1-stack contactors	BX4	1SBN 110 108 T1000	10	0.006
For 4-pole CA4 and 2-pole CAT4 auxiliary contact blocks	BX4-CA	1SBN 110 109 W1000	50	0.001



BA4

Function markers

Description

Box of 16 blank cards (16 markers by card) printable on HTP500 thermal transfer printer and AMS 500 marking table to identify your contactors, overload relays or manual motor starters.

Marker dimensions: 7 x 20 mm (.276" x .787")

Ordering Details

For contactors	Type	Order code	Pack ^(ing) pieces	Weight kg (1 pce)
Marker card	BA4	1SNA 235 156 R2700	16	0.011
AMS 500 support plate for 8 BA4	SPRC 1	1SNA 360 010 R1500	1	0.220
HTP500 support plate	HTP500-BA4	1SNA 235 712 R2400	1	0.290

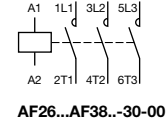
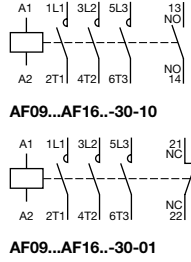
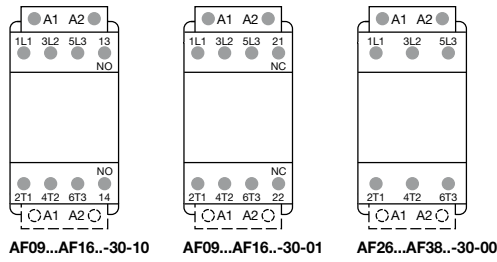
AF09 ... AF38 3-pole Contactors

Terminal Marking and Positioning

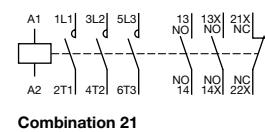
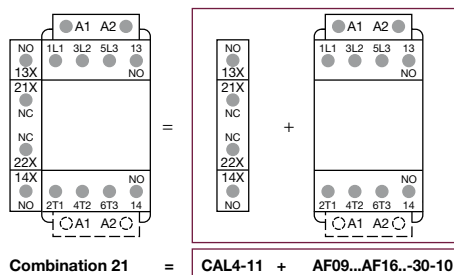
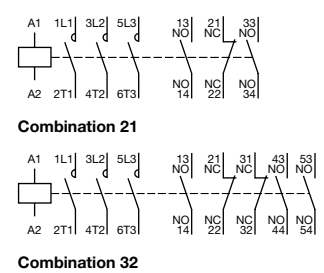
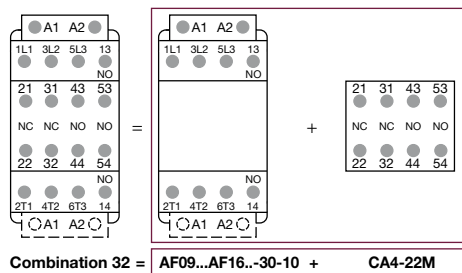
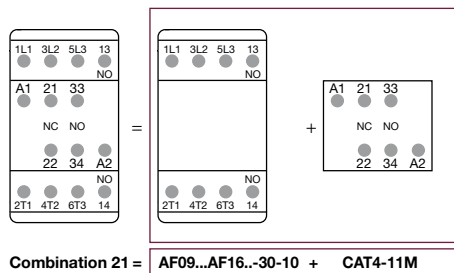
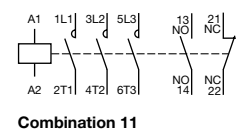
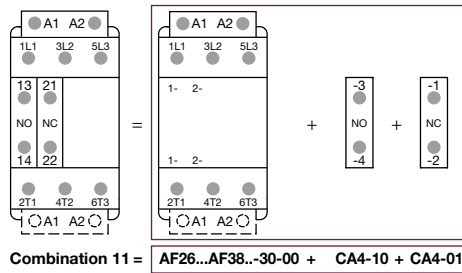
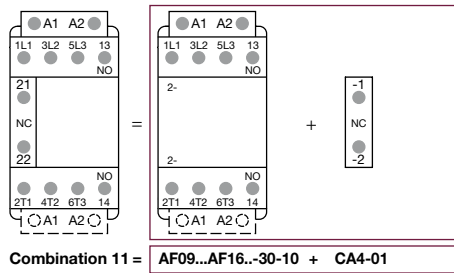
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Standard devices without addition of auxiliary contacts



Other possible contact combinations with auxiliary contacts added by the user



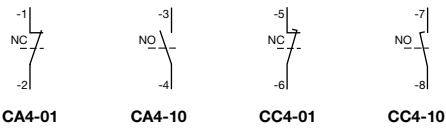
Note: Only AF.Z contactor with DC control voltage 12...20 V DC need to respect the connection polarities indicated close to the coil terminals: A1+ for the positive pole and A2- for the negative pole

Add-on Auxiliary Contacts

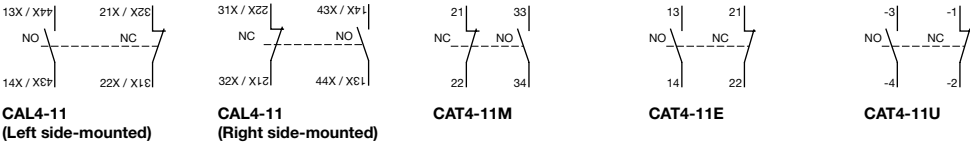
Terminal Marking and Positioning



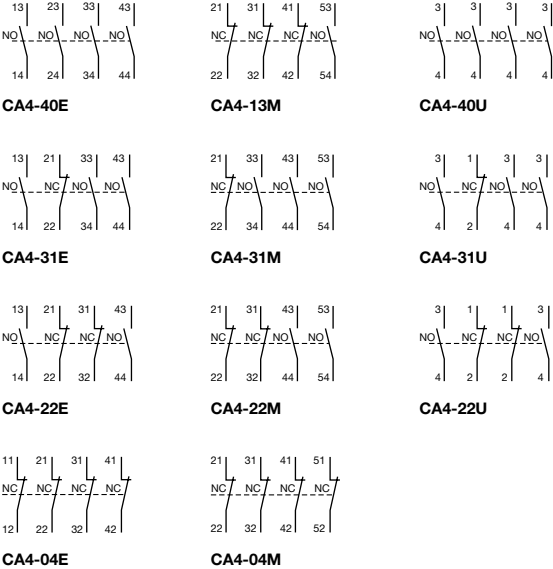
1-pole auxiliary contacts



2-pole auxiliary contacts



4-pole auxiliary contacts



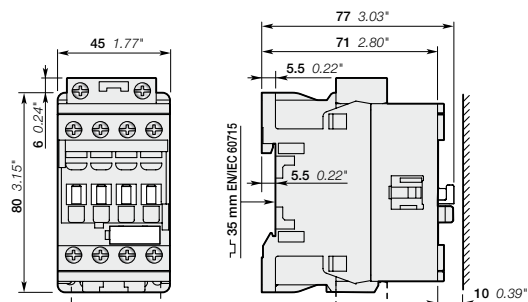
AF09 ... AF16 3-pole Contactors

AC / DC Operated - with Screw Terminals

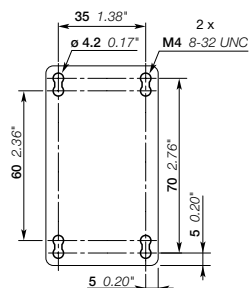
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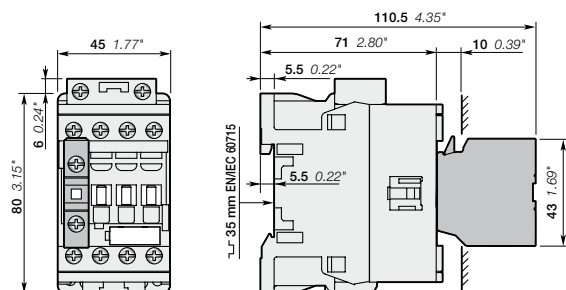
Dimensions mm, inches



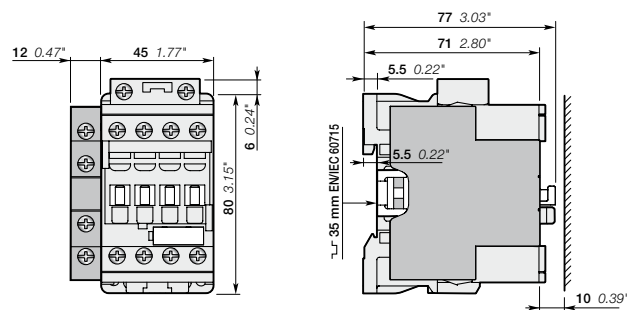
AF09, AF12, AF16



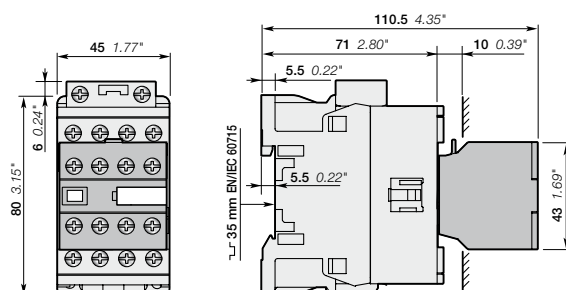
AF09, AF12, AF16



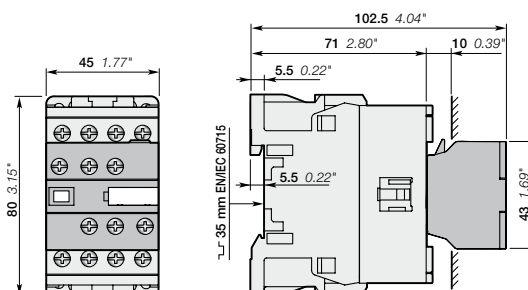
AF09, AF12, AF16
+ CA4, CC4 1-pole auxiliary contact block



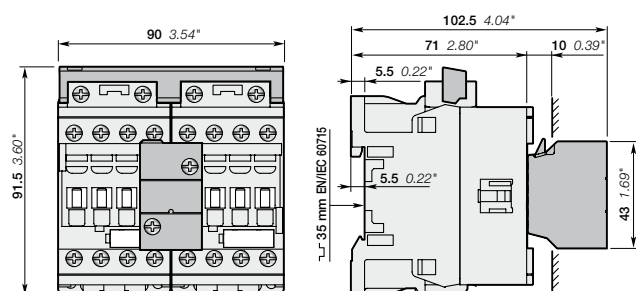
AF09, AF12, AF16
+ CAL4-11 2-pole auxiliary contact block



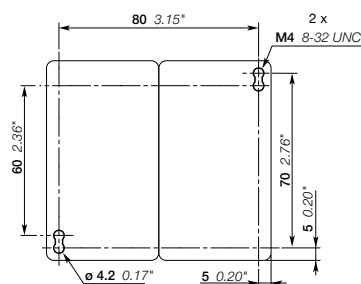
AF09, AF12, AF16
+ CA4 4-pole auxiliary contact block



AF09, AF12, AF16
+ CAT4 2-pole auxiliary contact and coil terminal block



AF09, AF12, AF16
+ VEM4 mechanical and electrical interlock set



AF09, AF12, AF16
+ VEM4 mechanical and electrical interlock set

Note: contactor lateral distance to grounded component 2 mm 0.08" min.

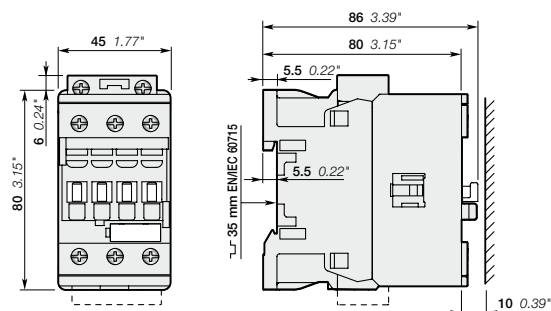
AF26 ... AF38 3-pole Contactors

AC / DC Operated - with Screw Terminals

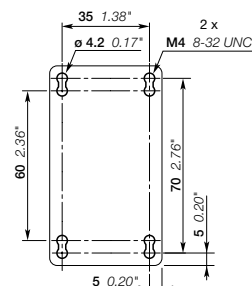
Catalogue Page 1SBC 101 091 S0201



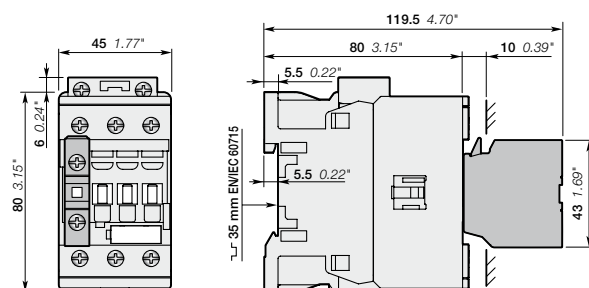
Dimensions mm, inches



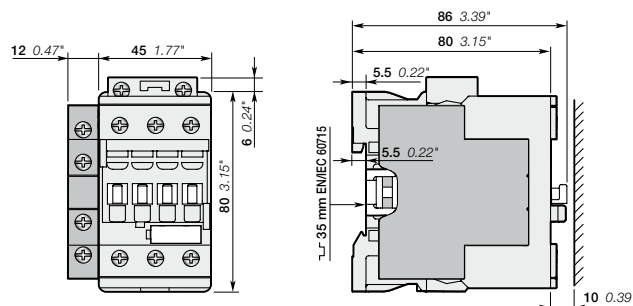
AF26, AF30, AF38



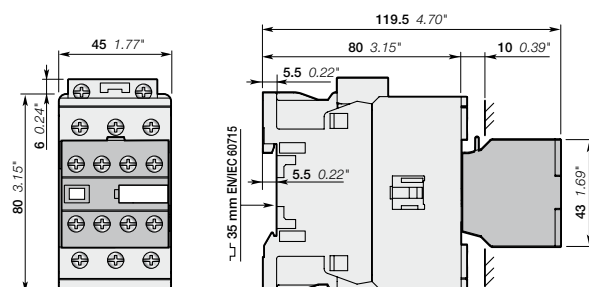
AF26, AF30, AF38



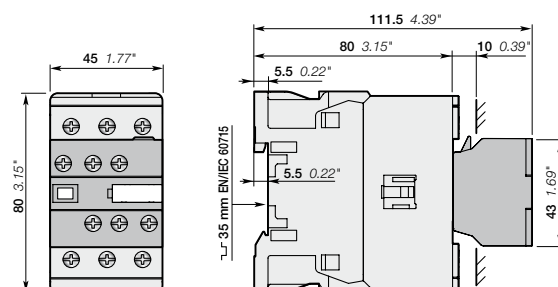
AF26, AF30, AF38
+ CA4, CC4 1-pole auxiliary contact block



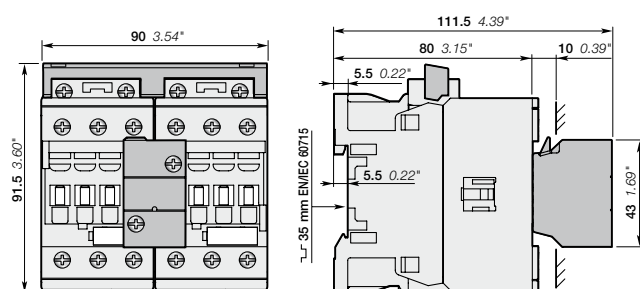
AF26, AF30, AF38
+ CAL4-11 2-pole auxiliary contact block



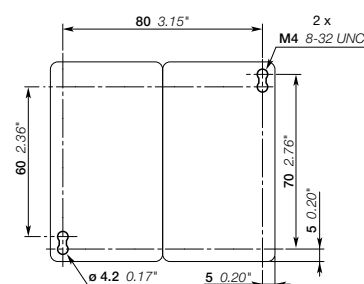
AF26, AF30, AF38
+ CA4 4-pole auxiliary contact block



AF26, AF30, AF38
+ CAT4 2-pole auxiliary contact and coil terminal block



AF26, AF30, AF38
+ VEM4 mechanical and electrical interlock set



AF26, AF30, AF38
+ VEM4 mechanical and electrical interlock set

Note: contactor lateral distance to grounded component 2 mm 0.08" min.