AF09 ... AF38 4-pole Contactors

Main Accessories

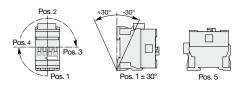


Accessory fitting details for a 4-pole contactor AF09 ... AF38

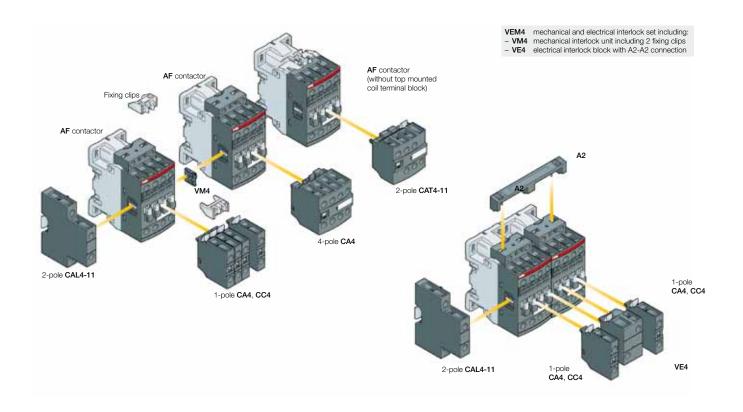
Many configurations of accessories are possible depending on whether these are front-mounted or side-mounted.

Contactor	Main		ilt-in		Front-mounted a	ront-mounted accessories							Side-mounted accessories Auxiliary contact blocks		
types	poles	con	iliary tacts		Auxiliary contac	uxiliary contact blocks					Electrical and mechani- cal interlock set (between 2 contactors)				
	\ \ \ \ \ \				1-pole CA4	-pole CA4						Left side		Right side	
) ((1-pole CC4		2-pole CAT4-11		4-pole CA4		VEM4		2-pole CAL4-11		
Max. add-on N.C. auxiliary contacts: 3 N.C. max. on positions 1, 2, 3, 4 and 2 N.C. max. on positions 1 ±30°, 5															
AF09 AF38	4 0	0	0		4 max.	or	1	or	1		-	+	1		-
	4 0		_	N	2 max.	or	1		-		-	+	1	+	1
AF09 AF38	4 0	U	0	/	3 max.		-	•	-	+	1 .	+	1		-
					Max. add-on N.C.	auxilia	ary contacts: 3 N.C.	ma	c. on positions 1, 2	, 3, 4	and 2 N.C. max. on positions 1	±3	0°, 5		
AF09 AF16	2 2	0	0		4 max.	or	1	or	1		-	+	1		_
AF26 AF38	2 2	0	0	1	2 max.	or	1		_		-	+	1	+	1

Mounting positions



Contactors and main accessories (other accessories available)



Auxiliary Contact Blocks

Accessories for AF09 ... AF38 4-pole Contactors







CA4-22E





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
- CAL4 2-pole block instantaneous N.O. + N.C. contacts clipped onto the right and/or left side of the contactors.

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		Catalog number	List price	Pack ^(ing)	Weight
	\	\\ \\ \			pieces	kg/lbs (1 pce)

Front-mounted instantaneous auxiliary contact blocks

		,					
AF09 AF3840-00	1	0	-	-	CA4-10	1	0.014/0.03
AF09 AF3822-00	0	1	-	-	CA4-01	1	0.014/0.03
	2	2	-	-	CA4-22E	1	0.055/0.12
	3	1	-	-	CA4-31E	1	0.055/0.12
	4	0	-	-	CA4-40E	1	0.055/0.12
AF09 AF3840-00	0	4	-	-	CA4-04E	1	0.055/0.12

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

AF09 AF3840-00	-	-	1	0	CC4-10	1	0.014/0.03
AF09 AF3822-00	-	-	0	1	CC4-01	1	0.014/0.03

Side-mounted instantaneous auxiliary contact blocks

AF09 AF3840-00	1	1	-	-	CAL4-11	1	0.040/0.09

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

AF09 AF3840-00	1	1	 CAT4-11E	1	0.040/0.09
AF09 AF3822-00					

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

Auxiliary Contact Blocks

Accessories for AF09 ... AF38 4-pole Contactors



Technical Data

Technical Data	11 male CAA 1 male CCA 4 male CAA 0 male CATA 0 male CALA
Types	1-pole CA4, 1-pole CC4, 4-pole CA4, 2-pole CAT4, 2-pole CAL4
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}	16 kV
Rated operational voltage U _e max.	½4 690 V
Conventional thermal current I _{th} - θ ≤ 40 °C	16 A
Rated frequency limits	25 400 Hz
Rated operational current I _a / AC-15 24-127 V 50/60 Hz	•
acc. to IEC 60947-5-1 220-240 V 50/60 Hz	'4 A
400-440 V 50/60 Hz	•
500 V 50/60 Hz	12 A
690 V 50/60 Hz	
Making capacity acc. to IEC 60947-5-1	10 x I _a AC-15 acc. to IEC 60947-5-1
Breaking capacity acc. to IEC 60947-5-1	10 x I AC-15 acc. to IEC 60947-5-1
***************************************	6 A / 144 W
acc. to IEC 60947-5-1 48 V DC	2.8 A / 134 W
***************************************	1 A / 72 W
	0.55 A / 60 W
125 V DC	1 0.55 A / 69 W
220 V DC	0.27 A / 60 W
***************************************	10.27 A / 68 W
***************************************	0.15 A / 60 W
•·····	10.13 A / 65 W
	10.1 A / 60 W
Short-circuit protection gG type fuse	10 A
Rated short-time withstand current lcw for 1.0 s	•
$\theta = 40 ^{\circ}\text{C}$ for 0.1 s	· · · · · · · · · · · · · · · · · · · ·
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	10.1 W
Mechanical durability Number of operating cycles	10 million operating cycles
Max. switching frequency	3600 cycles/h
	1200 cycles/h
	1 900 cycles/h
0	
Contact Utilization Characteristics according to UL/CSA	THE TOO GOA GOO GAINA
Standards	UL 508, CSA C22.2 N°14
Rated insulation voltage U	1600 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	1720 VA
DC thermal rated current	2.5 A
DC maximum volt-ampere making-breaking	<u>'</u> 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.)	₩ 1 1
	1 2.5 mm ²
	1 2.5 mm ²
	0.75 2.5 mm ²
	10.75 2.5 mm ²
	0.75 2.5 mm ²
	0.75 1.5 mm ²
	¦8 mm
Capacity acc. to UL/CSA 1 or 2 x	- AWG 18 14
Stripping length	10 mm
	· IV IIIII
Degree of protection acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	LIDOO
·····	IP20
Screwdriver type	Flat Ø5.5 / Pozidriv 2
Tightening torque	1.2 Nm / 11 lb.in

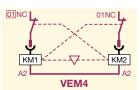
Interlocks

Accessories for AF09 ... AF38 4-pole Contactors











Mechanical interlock unit

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	Catalog number	List price	Pack(ing)	Weight
			pieces	kg/lbs (1 pce)
AF09 AF3840-00	VM4		10	0.005/0.011

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		List price	Pack ^(ing) pieces	
	\\ \				kg/lbs (1 pce)
AF09 AF3840-00	1 1	VEM4		1	0.035/0.077

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

Fixing clips

Ordering Details

For contactors	Catalog number	List price	Pack ^(ing)	Weight
			pieces	kg/lbs
AF09 AF3840-00	BB4		50	0.002/0.004

Interlocks

Accessories for AF09 ... AF38 4-pole Contactors



Technical Data

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

Interlock types		VEM4				
Contact Utilization Characteristics a	according to IEC					
Standards		IEC 60947-5-1 and EN 60947-5-1				
Rated insulation voltage U _i acc. to IEC 609	947-5-1	: 690 V				
Rated impulse withstand voltage U _{imp}	•	- 6 kV				
Rated control circuit voltage U _c	AC 50/60 Hz control voltage					
	DC control voltage					
Conventional thermal current I_{th} - $\theta \le 40$ °C	•	¦16 A				
Mechanical and electrical durability		 				
Number of operating cycles		5 million operating cycles				
Max. mechanical switching	······································	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

Connecting Characteristics	
Screw terminals	
All terminals	M3.5
Connecting capacity (min max.)	
Rigid Solid 1	x ¦ 1 2.5 mm²
□■	x ¦1 2.5 mm²
Flexible with non insulated ferrule	x ¦ 0.75 2.5 mm²
	x ¦ 0.75 2.5 mm²
	x 10.75 2.5 mm ²
2	x 0.75 1.5 mm ²
	< 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

Other Accessories

Accessories for AF09 ... AF38 4-pole Contactors













Additional coil terminal block

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

Ordering Details

For contactors	Catalog number	List price	Pack ^(ing)	Weight
			pieces	kg/lbs (1 pce)
AF09 AF38	LDC4		10	0.010/0.02

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	Catalog number	List price	Pack(ing)	Weight
			pieces	kg/lbs (1 pce)
All 1-stack contactors	BX4		10	0.006/0.013
For 4-pole CA4 and 2-pole CAT4 auxiliary contact blocks	BX4-CA		50	0.001/0.002

Function markers

Description

Box of 16 blank cards (16 markers per 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	Catalog number	List price	Pack ^(ing)	Weight
				kg/lbs (1 pce)
Marker card	BA4		16	0.011/0.024
AMS 500 support plate for 8 BA4	XUSP02633		1	0.220/0.48
HTP500 support plate	1SNA235712R2400		1	0.290/0.64