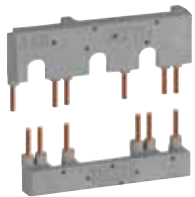
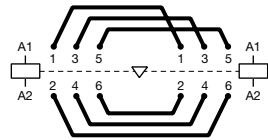
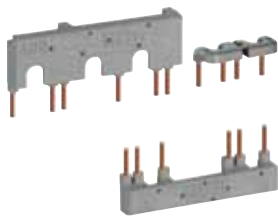
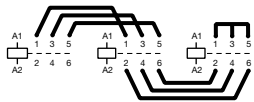




BEA16-4



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 <sup>(ing)</sup> pieces	Weight kg (1 pce)
AF09 ... AF16 with MS116 and MS132	<b>BEA16-4</b>	<b>1SBN 081 306 T1000</b>	10	0.025
AF26 ... AF38 with MS132-12 ... MS132-32	<b>BEA38-4</b>	<b>1SBN 082 306 T2000</b>	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 <sup>(ing)</sup> pieces	Weight kg (1 pce)
AF09 ... AF16	<b>BER16-4</b>	<b>1SBN 081 311 R1000</b>	1	0.045
AF26 ... AF38	<b>BER38-4</b>	<b>1SBN 082 311 R1000</b>	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.

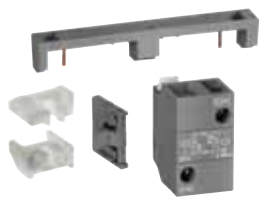
#### Ordering Details

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

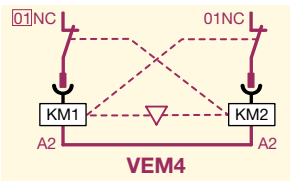
Accessories for AF09 ... AF38 3-pole Contactors



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 <sup>(ing)</sup> 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 <sup>(ing)</sup> 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 <sup>(ing)</sup> 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
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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 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 <sup>2</sup>
 Flexible with non insulated ferrule	2 x ; 1 ... 2.5 mm <sup>2</sup>
 Flexible with insulated ferrule	1 x ; 0.75 ... 2.5 mm <sup>2</sup>
 Flexible with insulated ferrule	2 x ; 0.75 ... 2.5 mm <sup>2</sup>
 Flexible with insulated ferrule	1 x ; 0.75 ... 2.5 mm <sup>2</sup>
 Flexible with insulated ferrule	2 x ; 0.75 ... 1.5 mm <sup>2</sup>
 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 <sup>(ing)</sup> 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 <sup>(ing)</sup> 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 <sup>(ing)</sup> 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