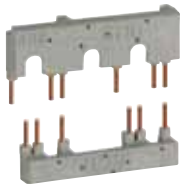
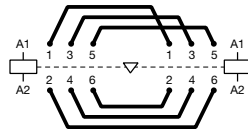


# Connection Accessories for Starting Solutions

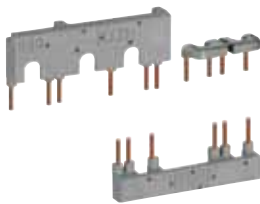
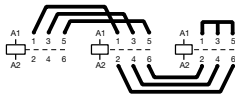
## Accessories for AF09 ... AF30 3-pole Contactors



BEA16-4



BER16-4



BEY16-4

### Connecting links with manual motor starters

#### Description

The **BEA..-4** connecting links are used to connect AF09 ... AF30 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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF16 with MS116 and MS132	<b>BEA16-4</b>		10	0.025/0.05
AF26 ... AF30 with MS132-12 ... MS132-32	<b>BEA38-4</b>		10	0.030/0.07

### 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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF16	<b>BER16-4</b>		1	0.045/0.10
AF26 ... AF30	<b>BER38-4</b>		1	0.100/0.22

### Connection sets for WYE-Delta starting

#### Description

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

The connection sets are made up of:

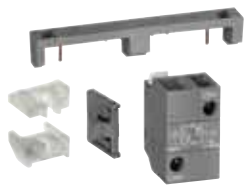
- - Line contactor / Delta contactor: upstream phase-to-phase connection
- - Delta contactor / WYE contactor: downstream connection in parallel
- - WYE contactor: WYE point upstream.

#### Ordering Details

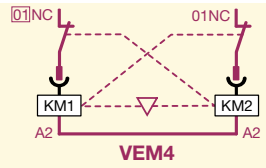
For Line, Delta and WYE contactors	Interlock unit between Delta & WYE contactors	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF16	With or without	<b>BEY16-4</b>		1	0.05/0.11
AF26 ... AF30	VM4 or VEM4	<b>BEY38-4</b>		1	0.11/0.24



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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF30	<b>VM4</b>		10	0.005/0.01

### 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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF16 AF26 ... AF30	1 1 	<b>VEM4</b>		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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF30	<b>BB4</b>		50	0.002/0.004

# Interlocks

## Accessories for AF09 ... AF30 3-pole Contactors



### Technical Data

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

<b>Interlock types</b>	<b>VEM4</b>
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### Contact Utilization Characteristics according to IEC

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

### Contact Utilization Characteristics according to UL / CSA

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

### Connecting Characteristics

<b>Screw terminals</b>	
All terminals	M3.5
<b>Connecting capacity (min. ... max.)</b>	
 Rigid Solid	1 x ; 1 ... 2.5 mm <sup>2</sup> 2 x ; 1 ... 2.5 mm <sup>2</sup>
 Flexible with non insulated ferrule	1 x ; 0.75 ... 2.5 mm <sup>2</sup> 2 x ; 0.75 ... 2.5 mm <sup>2</sup>
 Flexible with insulated ferrule	1 x ; 0.75 ... 2.5 mm <sup>2</sup> 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
<b>Degree of protection</b>	
acc. to IEC 60947-1 / EN 60947-1 and IEC 60529 / EN 60529	IP20
<b>Screwdriver type</b>	Flat Ø5.5 / Pozidriv 2
<b>Tightening torque</b>	1.2 Nm / 11 lb.in



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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight kg/lbs (1 pce)
AF09 ... AF30	LDC4		10	0.010/0.022



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	Catalog number	List price	Pack <sup>(ing)</sup> pieces	Weight 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



BA4

### 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 <sup>(ing)</sup> pieces	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