

# ASL09 ... ASL16 2-stack 3-pole contactors

## 4 to 7.5 kW

## DC operated



ASL09-30-32

### Description

ASL09 ... ASL16 contactors are mainly used for controlling 3-phase motors and power circuits up to 690 V AC and 220 V DC.

These contactors are of the block type design with:

- 1st stack with 3 main poles and 1 N.O. built-in auxiliary contact
- 2nd stack with permanently fixed 2 N.O. + 2 N.C. auxiliary contact block. The auxiliary contact elements are mechanically linked (side-marked symbol) and the N.C. auxiliary contacts are mirror contacts
- control circuit: low consumption (3 W at pull-in and holding) DC operated with solid core magnet. Suitable for direct control by PLC outputs (the polarity on the coil terminals A1+ and A2- must be respected)
- a comprehensive range of accessories.

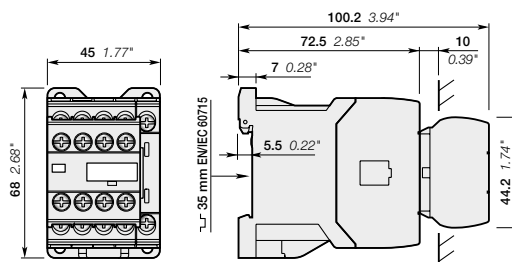
### Ordering details

| IEC<br>Rated power<br>400 V<br>AC-3<br>kW | operational<br>current<br>$\theta \leq 40^\circ\text{C}$<br>AC-1<br>A | UL/CSA<br>3-phase<br>motor<br>rating<br>480 V<br>hp | General<br>use<br>rating<br>600 V AC<br>A | Rated control<br>voltage<br>$U_c$<br>(1)<br>V DC | Auxiliary<br>contacts<br>fitted<br>I L | Type           | Order code      | Weight<br>Pkg<br>(1 pce)<br>kg |
|-------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|--------------------------------------------------|----------------------------------------|----------------|-----------------|--------------------------------|
| 4                                         | 22                                                                    | 5                                                   | 20                                        | 24                                               | 3 2                                    | ASL09-30-32-81 | 1SBL103001R8132 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 48                                               | 3 2                                    | ASL09-30-32-83 | 1SBL103001R8332 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 110                                              | 3 2                                    | ASL09-30-32-86 | 1SBL103001R8632 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 220                                              | 3 2                                    | ASL09-30-32-88 | 1SBL103001R8832 | 0.320                          |
| 5.5                                       | 24                                                                    | 7.5                                                 | 20                                        | 24                                               | 3 2                                    | ASL12-30-32-81 | 1SBL113001R8132 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 48                                               | 3 2                                    | ASL12-30-32-83 | 1SBL113001R8332 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 110                                              | 3 2                                    | ASL12-30-32-86 | 1SBL113001R8632 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 220                                              | 3 2                                    | ASL12-30-32-88 | 1SBL113001R8832 | 0.320                          |
| 7.5                                       | 24                                                                    | 10                                                  | 20                                        | 24                                               | 3 2                                    | ASL16-30-32-81 | 1SBL123001R8132 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 48                                               | 3 2                                    | ASL16-30-32-83 | 1SBL123001R8332 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 110                                              | 3 2                                    | ASL16-30-32-86 | 1SBL123001R8632 | 0.320                          |
|                                           |                                                                       |                                                     |                                           | 220                                              | 3 2                                    | ASL16-30-32-88 | 1SBL123001R8832 | 0.320                          |

Note: for multiple packaging, please contact your ABB local sales organization.

(1) Other control voltages see voltage code table.

### Main dimensions mm, inches



ASL09, ASL12, ASL16

# Voltage code table

The below tables indicate the available coil voltages and corresponding digits for order codes. When placing an order, please give either type or order code. Select a standard contactor from ordering detail pages. Change the **coil voltage code** in the type or in the order code according to the table below. Example: for contactor AS09-30-10 and coil 42 V 50/60 Hz, type is AS09-30-10-**21** and order code is 1SBL101001R**21**10.

## 3-pole contactors

4

Type

AS16 - 30 - 10 - 26

AS

ASL

Contactor type

AC operated

DC operated

Auxiliary contacts

N.O. N.C.

N.O. N.C.

Main contacts

Order code

1SBL121001R 26 10

AC coil code

50 Hz 60 Hz

20 24 V 24 V

21 42 V 42 V

22 48 V 48 V

23 110 V 110 V

24 115 V 115 V

16 - 120 V

25 220 V 220 V

26 230 V 230 V

27 240 V 240 V

17 - 277 V

13 380 V -

28 400 V 400 V

29 415 V 415 V

DC coil code

80 12 V

81 24 V

83 48 V

84 60 V

86 110 V

87 125 V

88 220 V

89 240 V

## 3-pole reversing contactors

VAS12 S EM - 26 M

VAS

VASL

Contactor type

AC operated

DC operated

Surge suppressor

Order code

1SBK113800M 26 00

AC coil code

50 Hz 60 Hz

20 24 V 24 V

21 42 V 42 V

22 48 V 48 V

23 110 V 110 V

24 115 V 115 V

16 - 120 V

25 220 V 220 V

26 230 V 230 V

27 240 V 240 V

17 - 277 V

13 380 V -

28 400 V 400 V

29 415 V 415 V

DC coil code

80 12 V (1)

81 24 V

83 48 V

84 60 V

86 110 V

87 125 V

88 220 V

89 240 V

(1) Not for VASL...SEM

## Contactor relays

NS 40 E - 26

NS

NSL

Contactor type

AC operated

DC operated

Number contacts

N.O. N.C.

Order code

1SBH101001R 26 40

AC coil code

50 Hz 60 Hz

20 24 V 24 V

21 42 V 42 V

22 48 V 48 V

23 110 V 110 V

24 115 V 115 V

16 - 120 V

25 220 V 220 V

26 230 V 230 V

27 240 V 240 V

17 - 277 V

13 380 V -

28 400 V 400 V

29 415 V 415 V

DC coil code

80 12 V

81 24 V

83 48 V

84 60 V

86 110 V

87 125 V

88 220 V

89 240 V