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# A9 - A300
## General information
## AC operated, UL rated, 3 phase

### Application
A-Line contactors are mainly used for controlling 3-phase motors and for controlling power circuits corresponding to their operating characteristics up to 690 and even 1000 VAC. and 440 VDC.

### Description of 3 pole and 4 pole contactors A9 - A300
All A-Line contactors can be assembled side by side. The add-on or built-in auxiliary contacts are suitable for low level currents.

### Control circuit types
- A-Line types: AC operated with laminated magnetic circuit.

### Contactor types
- 3 pole contactors with NO or NC built in auxiliary contact for A9 - A40 contactors; factory assembled auxiliary contacts for A50 - A300 contactors
- 4 pole contactors: 4 NO or 2 NO & 2 NC without any auxiliary contacts. (A9 - A75)

Quick mounting on DIN rail: EN 50022 and EN 50023 standards:

35 x 7.5mm for A9 - A40

35 x 15mm for A9 - A75

75mm for A45 - A110

Location of side mounted accessories: on right or left hand side. Factory mounted on left hand side for CAL5 on A50 - A300

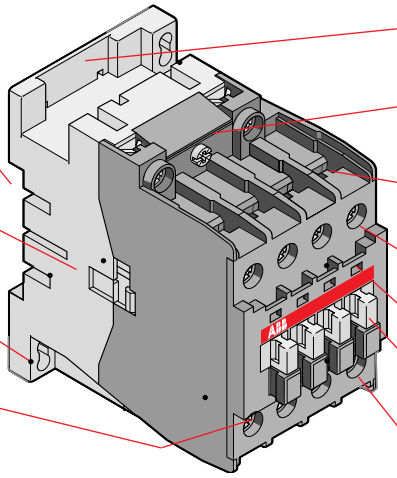
Holes for screw mounting (screws not supplied). Distance between holes according to EN 50003.

Terminals in A9 - A110 contactors are delivered in open position with captive screws (screws of unused terminals must be tightened).

Screwdriver guidance for all terminals makes it possible to use motorized screwdrivers.

All terminals provide protection against accidental direct contact with live parts according to VDE0106 - Part. 100.

All A9 - A40 contactor terminals as well as A45 - A300 contactor auxiliary contact and coil terminals ensure IP20 degree of protection according to IEC 947-1.



A9 - A300

Location of surge suppressors.

Clear marking of coil voltages and frequencies.

Connecting point for control leads in top part of main terminals of A50 - A75 contactors. For A95 & A110 contactors these are additional power connections.

Terminal marking according to IEC 947-4-1, EN 50005, EN 50012 and NEMA standards.

Location of function marker.

Stops for attaching front mounted accessories.

Terminal screws:
- Posidrive (+,-) No 2 for all A9 - A75
- M8 hex threaded socket screw for A95 - A300 main terminals.

## Catalog number explanation

**A9-30-10-84**

**Frame size**

**Power pole**

30 = 3 NO
40 = 4 NO
22 = 2 NO & 2 NC

**Coil voltage**
(see coil voltage selection chart)

**Auxiliary contacts**

10 = 1 NO & 0 NC
01 = 0 NO & 1 NC
11 = 1 NO & 1 NC
00 = No auxiliary provided
22 = 2 NO & 2 NC

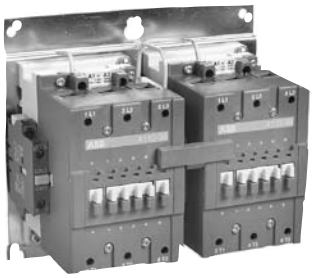
### Coil voltage selection chart

| Hz | Cntr type | Volts | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12 | 24 | 48 | 110 | 120 | 125 | 208 | 220 | 240 | 277 | 380 | 415 | 440 | 480 | 500 | 600 |
| 60 | A | | 81 | 83 | 84 | 84 | | 34 | 36 | 80 | 42 | | 86 | 86 | 51 | 53 | 55 |
| 50 | A | | 81 | 83 | 84 | | | | 80 | | | 85 | 86 | | | 55 | |

For other voltages, see page 1.24.

# A9 - A300
## Non-reversing, mechanically interlocked, reversing
## AC operated, UL rated, 3 phase


A26-30-10-84


A110M-30-11-84


A110R-30-11-84

| UL general purpose current | UL motor switching current | Maximum motor horsepower ratings | | | | Standard Aux. contacts | | Non-reversing | | Mechanically interlocked | | Reversing | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 208V | 240V | 480V | 575/600V | NO | NC | Catalog number | List price | Catalog number | List price | Catalog number | List price |
| AC1 | | UL rated | | | | | | | | | | | |
| 21 | 9 | 2 | 2 | 5 | 7.5 | 1<br>0 | 0<br>1 | A9-30-10-84<br>A9-30-01-84 | **$ 78** | A9M-30-10-84<br>A9M-30-01-84 | **$ 255** | A9R-30-10-84<br>A9R-30-01-84 | **$ 315** |
| 25 | 11 | 3 | 3 | 7.5 | 10 | 1<br>0 | 0<br>1 | A12-30-10-84<br>A12-30-01-84 | **84** | A12M-30-10-84<br>A12M-30-01-84 | **315** | A12R-30-10-84<br>A12R-30-01-84 | **375** |
| 30 | 17 | 5 | 5 | 10 | 15 | 1<br>0 | 0<br>1 | A16-30-10-84<br>A16-30-01-84 | **102** | A16M-30-10-84<br>A16M-30-01-84 | **345** | A16R-30-10-84<br>A16R-30-01-84 | **413** |
| 40 | 28 | 7.5 | 10 | 20 | 25 | 1<br>0 | 0<br>1 | A26-30-10-84<br>A26-30-01-84 | **183** | A26M-30-10-84<br>A26M-30-01-84 | **405** | A26R-30-10-84<br>A26R-30-01-84 | **480** |
| 50 | 34 | 10 | 10 | 25 | 30 | 1<br>0 | 0<br>1 | A30-30-10-84<br>A30-30-01-84 | **252** | A30M-30-10-84<br>A30M-30-01-84 | **548** | A30R-30-10-84<br>A30R-30-01-84 | **623** |
| 60 | 42 | 10 | 15 | 30 | 40 | 1<br>0 | 0<br>1 | A40-30-10-84<br>A40-30-01-84 | **297** | A40M-30-10-84<br>A40M-30-01-84 | **639** | A40R-30-10-84<br>A40R-30-01-84 | **750** |
| 80 | 54 | 15 | 20 | 40 | 50 | 1 | 1 | A50-30-11-84 | **330** | A50M-30-11-84 | **713** | A50R-30-11-84 | **810** |
| 90 | 65 | 20 | 25 | 50 | 60 | 1 | 1 | A63-30-11-84 | **372** | A63M-30-11-84 | **870** | A63R-30-11-84 | **1,013** |
| 105 | 80 | 25 | 30 | 60 | 75 | 1 | 1 | A75-30-11-84 | **413** | A75M-30-11-84 | **1,155** | A75R-30-11-84 | **1,298** |
| 125 | 95 | 30 | 30 | 60 | 75 | 1 | 1 | A95-30-11-84 | **450** | A95M-30-11-84 | **1,230** | A95R-30-11-84 | **1,425** |
| 140 | 110 | 30 | 40 | 75 | 100 | 1 | 1 | A110-30-11-84 | **480** | A110M-30-11-84 | **1,365** | A110R-30-11-84 | **1,628** |
| 230 | 130 | 40 | 50 | 100 | 125 | 1 | 1 | A145-30-11-84 | **825** | A145M-30-11-84 | **2,235** | A145R-30-11-84 | **2,250** |
| 250 | 156 | 50 | 60 | 125 | 150 | 1 | 1 | A185-30-11-84 | **1,290** | A185M-30-11-84 | **3,360** | A185R-30-11-84 | **3,375** |
| 300 | 192 | 60 | 75 | 150 | 200 | 1 | 1 | A210-30-11-84 | **1,635** | A210M-30-11-84 | **4,035** | A210R-30-11-84 | **4,050** |
| 350 | 248 | 75 | 100 | 200 | 250 | 1 | 1 | A260-30-11-84 | **1,815** | A260M-30-11-84 | **4,485** | A260R-30-11-84 | **4,500** |
| 400 | 302 | 100 | 100 | 250 | 300 | 1 | 1 | A300-30-11-84 | **1,875** | A300M-30-11-84 | **5,460** | A300R-30-11-84 | **5,475** |
| 550 | 414 | 125 | 150 | 350 | 400 | 1 | 1 | | | | | | |
| 650 | 480 | 150 | 200 | 400 | 500 | 1 | 1 | | | | | | |
| 750 | 602 | 200 | 250 | 500 | 600 | 1 | 1 | | | | | | |
| 900 | 810 | 250 | 300 | 600 | 700 | 1 | 1 | | | | | | |
| 1350 | 960 | — | 400 | 800 | 900 | 1 | 1 | | | | | | |
| 1650 | 1080 | — | 450 | 900 | 1000 | 1 | 1 | | | | | | |

See Type AF contactors, page 1.9

## Coil voltage selection

All AC operated catalog numbers include a 120VAC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 240V coil is required for an A75 contactor: A75-30-11-**80**

## Auxiliary contact blocks

For additional auxiliary contact blocks, see catalog number explanation on page 1.2. Add $ 20 to list price for each additional auxiliary, and see page 1.32 for available combinations. Only side-mounted blocks are allowed to be factory installed. If auxiliary contacts are not required for A50 - A300, subtract $ 40 from list price and change catalog number to “00” instead of “11.”

## Mechanical interlock

Mechanically interlocked contactors are designed for reversing, 2 speed, reduced voltage, etc. type starter applications. The complete assembly consists of two mechanically and electrically interlocked contactors mounted as follows with line and load terminals:

- A9 - A16 — mounted on 35mm DIN rail
- A26 - A300 — mounted on common baseplate

Power wiring is not included. The NC electrical interlock is provided with the mechanical interlock for A9 - A110 contactors.

## Coil voltage selection chart

| Hz | Cntr type | Volts | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12 | 24 | 48 | 110 | 120 | 125 | 208 | 220 | 240 | 277 | 380 | 415 | 440 | 480 | 500 | 600 |
| 60 | A | | 81 | 83 | 84 | 84 | | 34 | 36 | 80 | 42 | | 86 | 86 | 51 | 53 | 55 |
| 50 | A | | 81 | 83 | 84 | | | | 80 | | | 85 | 86 | | | 55 | |

For other voltages, see page 1.24.

## Reversing

Reversing contactors are designed for reversing type starter applications. The complete assembly consists of two mechanically and electrically interlocked contactors mounted as follows with line and load terminals:

- A9 - A16 — mounted on 35mm DIN rail
- A26 - A300 — mounted on common baseplate

The NC electrical interlock is provided with the mechanical interlock for A9 - A110 contactors.

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