Across the line

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).

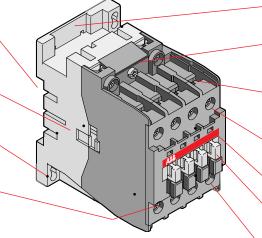
Screwdriver guidance for all terminals makes it possible to use motorized screwdrivers.

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.

30 = 3 NO

40 = 4 NO 22 = 2 NO & 2 NC



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 - A300

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

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

For other voltages, see page 1.24.

1.2

A9 - A300

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









A26-30-10-84

A110M-30-11-84

	1 1		Maximu norsepower	ım motor_	•	Standard						[
UL general	UL motor	ŀ	norsepower	ratings 🛡	€.	Aux. contacts		Non-reversing		Mechanically interlo	cked	Reversing	
purpose current	switching current	208V	240V	480V	575/600V	NO	NC	Catalog number	List price	Catalog number	List price	Catalog number	List price
AC1		UL rated											

current	current	208V	240V	480V	575/600V	NO	NC	number	price	number	price	number	price
AC1		UL rated											
21	9	2	2	5	7.5	1 0	0 1	A9-30-10-84 A9-30-01-84		A9M-30-10-84 A9M-30-01-84		A9R-30-10-84 A9R-30-01-84	
25	11	3	3	7.5	10	1 0	0 1	A12-30-10-84 A12-30-01-84		A12M-30-10-84 A12M-30-01-84		A12R-30-10-84 A12R-30-01-84	
30	17	5	5	10	15	1 0	0 1	A16-30-10-84 A16-30-01-84		A16M-30-10-84 A16M-30-01-84		A16R-30-10-84 A16R-30-01-84	
40	28	7.5	10	20	25	1 0	0 1	A26-30-10-84 A26-30-01-84		A26M-30-10-84 A26M-30-01-84		A26R-30-10-84 A26R-30-01-84	
50	34	10	10	25	30	1 0	0 1	A30-30-10-84 A30-30-01-84		A30M-30-10-84 A30M-30-01-84		A30R-30-10-84 A30R-30-01-84	
60	42	10	15	30	40	1 0	0 1	A40-30-10-84 A40-30-01-84		A40M-30-10-84 A40M-30-01-84		A40R-30-10-84 A40R-30-01-84	
80	54	15	20	40	50	1	1	A50-30-11-84		A50M-30-11-84		A50R-30-11-84	
90	65	20	25	50	60	1	1	A63-30-11-84		A63M-30-11-84		A63R-30-11-84	
105	80	25	30	60	75	1	1	A75-30-11-84		A75M-30-11-84		A75R-30-11-84	
125	95	30	30	60	75	1	1	A95-30-11-84		A95M-30-11-84		A95R-30-11-84	
140	110	30	40	75	100	1	1	A110-30-11-84		A110M-30-11-84		A110R-30-11-84	
230	130	40	50	100	125	1	1	A145-30-11-84		A145M-30-11-84		A145R-30-11-84	
250	156	50	60	125	150	1	1	A185-30-11-84		A185M-30-11-84		A185R-30-11-84	
300	192	60	75	150	200	1	1	A210-30-11-84		A210M-30-11-84		A210R-30-11-84	
350	248	75	100	200	250	1	1	A260-30-11-84		A260M-30-11-84		A260R-30-11-84	
400	302	100	100	250	300	1	1	A300-30-11-84		A300M-30-11-84		A300R-30-11-84	
550	414	125	150	350	400	1	1						

See Type AF contactors, page 1.9

Coil voltage selection

480

602

810

960

1080

150

200

250

_

650

750

900

1350

1650

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.

200

250

300

400

450

400

500

600

800

900

500

600

700

900

1000

1

1

1

1

1

1

1

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		Volts														
	type	12	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	Α		81	83	84	84		34	36	80	42		86	86	51	53	55
50	Α		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.