

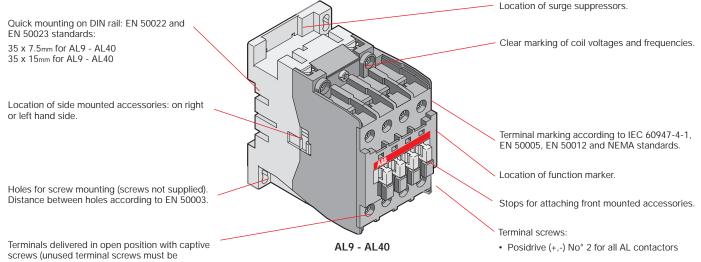
General information AL9 - AL40, DC operated UL rated, 3 phase

Application

AL and AL...Z 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.

Control circuit types

AL9 - AL40: DC coil with low power consumption of 3W to 3.5W AL9Z - AL16Z: DC coil with low power consumption of 2.4W. Designed to be directly controlled by PLC.

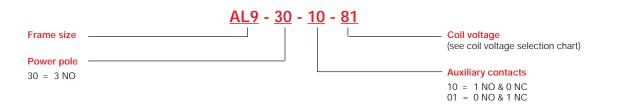


tightened). Screwdriver guidance for all terminals makes it

possible to use motorized screwdrivers. All terminals provide protection against accidental direct contact with live parts according to

VDE0106 - Part. 100. All AL9 - AL40 contactor terminals as well as contactor auxiliary contacts and coil terminals ensure IP20 degree of protection according to IEC 60947-1.

Catalog number explanation



Coil voltage selection

Hz	Contr. type	Volts										
		12	24	48	110	125	220	240				
DC	AL	80	81	83	86	87	88	89				
DC	ALZ		15	28								
For other voltages, see page 1.26												

For other voltages, see page 1.26.

AL9 - AL40, AL9Z - AL16Z

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





AL Contactors — 3W and 3.5W consumption

General UL mo	UL motor		Maximum motor horsepower ratings			Standard Aux. contacts		Non-reversing	Mechanically interlocked	Reversing
purpose switching current current		208V	240V	480V				Catalogt number	Catalogt number	Catalogt number
AC1		UL rated								
21	9	2	2	5	7.5	1 0	0 1	AL9-30-10-81 AL9-30-01-81	AL9M-30-10-81 AL9M-30-01-81	AL9R-30-10-81 AL9R-30-01-81
25	11	3	3	7.5	10	1 0	0 1	AL12-30-10-81 AL12-30-01-81	AL12M-30-10-81 AL12M-30-01-81	AL12R-30-10-81 AL12R-30-01-81
30	17	5	5	10	15	1 0	0 1	AL16-30-10-81 AL16-30-01-81	AL16M-30-10-81 AL16M-30-01-81	AL16R-30-10-81 AL16R-30-01-81
40	28	7.5	10	20	25	1 0	0 1	AL26-30-10-81 AL26-30-01-81	AL26M-30-10-81 AL26M-30-01-81	AL26R-30-10-81 AL26R-30-01-81
50	34	10	10	20	30	1 0	0 1	AL30-30-10-81 AL30-30-01-81	AL30M-30-10-81 AL30M-30-01-81	AL30R-30-10-81 AL30R-30-01-81
60	42	10	15	30	40	1 0	0 1	AL40-30-10-81 AL40-30-01-81	AL40M-30-10-81 AL40M-30-01-81	AL40R-30-10-81 AL40R-30-01-81

ALZ Contactors — 2.4W consumption

	UL motor	h	Maximu	im motor ratings	œ	Standard Aux. contacts		Non-reversing	Mechanically interlocked	Reversing	
current	switching current	208V 240V		480V	575/600V	NO NC		Catalogt number	Catalogt number	Catalogt number	
AC1		UL rated									
21	9	2	2	2 5 7.5		1 0	0 1	AL9Z-30-10-15 AL9Z-30-01-15	AL9ZM-30-10-15 AL9ZM-30-01-15	AL9ZR-30-10-15 AL9ZR-30-01-15	
25	11	3	3	7.5	7.5 10		0 1	AL12Z-30-10-15 AL12Z-30-01-15	AL12ZM-30-10-15 AL12ZM-30-01-15	AL12ZR-30-10-15 AL12ZR-30-01-15	
30	17	5	5	10	15	1 0	0 1	AL16Z-30-10-15 AL16Z-30-01-15	AL16ZM-30-10-15 AL16ZM-30-01-15	AL16ZR-30-10-15 AL16ZR-30-01-15	

Coil voltage selection

All DC operated catalog numbers include a 24VDC 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 48V coil is required for an AL30 contactor: AL30-30-10-83

Auxiliary contact blocks

For additional auxiliary contact blocks, see catalog number explanation on page 1.6. Add \$ 20 to list price for each additional auxiliary, and see page 1.18 for available combinations.

Coil voltage selection

Hz	Contr. type	Volts										
		12	24	48	110	125	220	240				
DC	AL	80	81	83	86	87	88	89				
DC	ALZ		15	28								

For other voltages, see page 1.26.

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:

- AL9 & AL16 mounted on 35mm DIN rail
- AL26 & AL40 mounted on common baseplate
- Power wiring is not included.

The NC electrical interlock is provided

Reversing

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

① Only coil voltages available for AL9Z – AL16Z.