# Across the line

# **AL9 - AL40**

# General information 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**

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

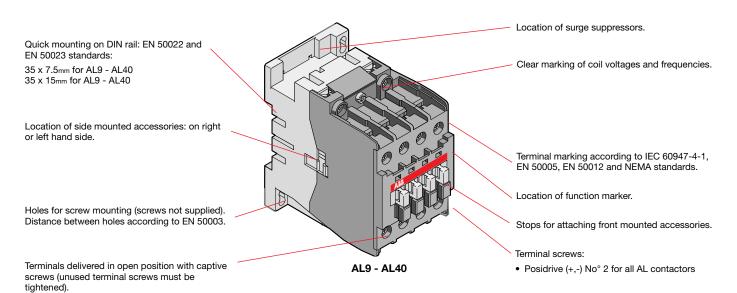
All terminals provide protection against accidental direct contact with live parts according to

All AL9 - AL40 contactor terminals as well as contactor auxiliary contacts and coil terminals ensure IP20 degree of protection according to

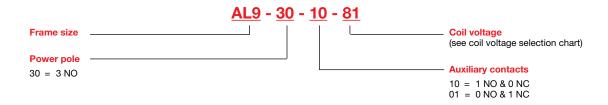
VDE0106 - Part. 100.

IEC 60947-1.

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.



# **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.

# **AL9 - AL40, AL9Z - AL16Z**

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









AL9-30-10-81

AL26-30-10-81

AL40-30-10-81

### **AL Contactors** — 3W and 3.5W consumption

General UL motor		r	Maximu orsepower	ratings	• • • • • • • • • • • • • • • • • • •	Standard Aux. contacts		Non-reversing		Mechanically interlocked		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							•	U	L rated				
21	9	2	2	5	7.5	1 0	0 1	AL9-30-10-81 AL9-30-01-81	\$ 110	AL9M-30-10-81 AL9M-30-01-81	\$ 319	AL9R-30-10-81 AL9R-30-01-81	\$ 379
25	11	3	3	7.5	10	1 0	0 1	AL12-30-10-81 AL12-30-01-81	135	AL12M-30-10-81 AL12M-30-01-81	417	AL12R-30-10-81 AL12R-30-01-81	477
30	17	5	5	10	15	1 0	0 1	AL16-30-10-81 AL16-30-01-81	150	AL16M-30-10-81 AL16M-30-01-81	441	AL16R-30-10-81 AL16R-30-01-81	501
40	28	7.5	10	20	25	1 0	0 1	AL26-30-10-81 AL26-30-01-81	190	AL26M-30-10-81 AL26M-30-01-81	473	AL26R-30-10-81 AL26R-30-01-81	533
50	34	10	10	20	30	1 0	0 1	AL30-30-10-81 AL30-30-01-81	260	AL30M-30-10-81 AL30M-30-01-81	618	AL30R-30-10-81 AL30R-30-01-81	678
60	42	10	15	30	40	1 0	0 1	AL40-30-10-81 AL40-30-01-81	300	AL40M-30-10-81 AL40M-30-01-81	715	AL40R-30-10-81 AL40R-30-01-81	775

# **ALZ Contactors** — 2.4W consumption

	UL motor switching current	r	horsepower ratings			Aux. contacts Non-r		Non-reversing	Mechanically interlo		cked Reversing		
purpose current		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 0	0 1	AL9Z-30-10-15 AL9Z-30-01-15	\$ 110	AL9ZM-30-10-15 AL9ZM-30-01-15	\$ 319	AL9ZR-30-10-15 AL9ZR-30-01-15	\$ 379
25	11	3	3	7.5	10	1 0	0 1	AL12Z-30-10-15 AL12Z-30-01-15	135	AL12ZM-30-10-15 AL12ZM-30-01-15	417	AL12ZR-30-10-15 AL12ZR-30-01-15	477
30	17	5	5	10	15	1 0	0 1	AL16Z-30-10-15 AL16Z-30-01-15	150	AL16ZM-30-10-15 AL16ZM-30-01-15	441	AL16ZR-30-10-15 AL16ZR-30-01-15	501

# 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.