

MINI Frame

with built-in
auxilliary switch



AC



DC

A16PC1-09D10

A16PC1-12D10

COIL VOLTAGES*

AC Coil (60Hz)**

	Part No.	Part No.
24V	A16PC1-09D10-AC24V	A16PC1-12D10-AC24V
120-125V	A16PC1-09D10-AC110V	A16PC1-12D10-AC110V

DC Coil (Solenoid operated coil - low power consumption)

24V	A16PC1-09D10-DC24V	A16PC1-12D10-DC24V
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NOTES: Parts above include 1 N.O. (10) auxiliary contact built-in. Please specify 01 in part number for N.C. auxiliary contact configuration.

CURRENT RATINGS

General Use (AC1)	15A (20A)	20A (20A)
Motor FLA@600V	9A	12A
AC3@380-400V		

HP RATINGS

	1 Phase	3 Phase	1 Phase	3 Phase
110-120V	1/2	1 1/2	3/4	2
200V	1	3	1 1/2	3
220-240V	1 1/2	3	2	3
440-480V	-	5	-	7 1/2
550-600V	-	7 1/2	-	10



Manual Reset
Part No.

Setting Range

0.12 - 0.18	APOL12/16E 0.18 C1
0.18 - 0.27	APOL12/16E 0.27 C1
0.27 - 0.4	APOL12/16E 0.4 C1
0.4 - 0.6	APOL12/16E 0.6 C1
0.6 - 0.9	APOL12/16E 0.9 C1
0.8 - 1.2	APOL12/16E 1.2 C1
1.2 - 1.8	APOL12/16E 1.8 C1
1.8 - 2.7	APOL12/16E 2.7 C1
2.7 - 4	APOL12/16E 4 C1
4 - 6	APOL12/16E 6 C1
6 - 9	APOL12/16E 9 C1
8 - 11	APOL12/16E 11 C1
10 - 14	APOL12/16E 14 C1

*Other coil voltages available upon request.

** (50Hz available upon request)

†Stocked parts in **BOLD**

Suppressor Units

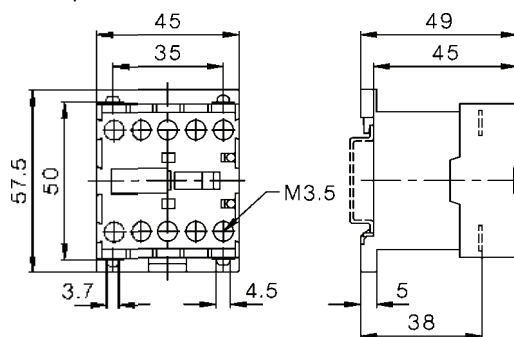


Voltage Range

		Part No.
12 - 48V AC/DC	160nF / 22 Ohm	AP-RC-C1 24
48 - 127V AC/DC	6800nF / 270 Ohm	AP-RC-C1 110
110 - 250V AC/DC	220nF / 2200 Ohm	AP-RC-C1 230

DIMENSIONS

AC and DC operated with screw terminals C1-09D... , C1-12D...



Auxiliary Contact Blocks for Contactor Relays



Ratings AC15	Thermal Rated Current	Contacts	Part No.
A A	A	NO NC	
3 2	10	1 1	HCM11
3 2	10	- 2	HCM02
3 2	10	2 -	HCM20
3 2	10	1 3	HCM13
3 2	10	4 -	HCM40
3 2	10	2 2	HCM22
3 2	10	- 4	HCM04
3 2	10	3 1	HCM31

MINI Frame - Specifications and Dimensions

Data according to IEC 947-4-1, EN 60947-4-1, VDE 0660, UL508

Main Contacts		Type	A16PC1-09D10		A16pc1-12D10	
Maximum Ambient Temperature						
Operation open		°C	-40 to +60 (+90)*			
		°C	-40 to +40			
with thermal overload relay		°C	-25 to +60			
enclosed		°C	-25 to +40			
Storage		°C	-50 to +90			
*with reduced control voltage range 0.9 up to 1.0 U and with reduced rated current I/AC1 according to Ie/AC3						
Control Circuit Power Consumption of Coils						
AC operated		inrush	VA	25		
		sealed	VA	4 - 5		
			W	1.2		
DC operated		inrush	W	2.5		
		sealed	W	2.5		
Cable Cross Section						
for contactors without overloads						
Solid or stranded wire		AWG	20 - 14			
		mm²	0.5 - 2.5			
Cables per clamp			2			
Mechanical Life						
AC operated		S x 10	5			
DC operated		S x 10	10			
Short Circuit Time		10s-current A	96	120		
Power loss per pole		at Ie/AC3 400V W	0.15	0.25		
Resistance to Shock acc. To IEC 68-2-27						
AC operated		NO g	5			
		NC g	5			
DC operated		NO g	8			
		NC g	6			
Resistance to Climatic Conditions acc. to IEC60068						
Open-type devices are climate-resistant in the constant climate according to IEC60068-2-3 (this is a climate with an ambient temperature of 40°C and an atmospheric humidity of 90 to 95%). Enclosed devices are climate-resistant in an alternating climate according to IEC 68-2-30 (this is a moist alternating climate with a 24-hour cycle between climates with an ambient temperature of 25°C, and an atmospheric humidity of 95 to 100% and an ambient temperature of 40°C, and an atmospheric humidity of 90 to 96% in the presence of condensation during rises in temperature). Data are valid up to an altitude of 2000m above sea level.						
Short Circuit Current Rating						
Fuse / Short-circuit current		A/Ka	30/5			
Rated Voltage		V AC	600			