22A Frame
with built-in auxilliary switch


AC


DC

A16PC(G)3-10ND10	A16PC(G)3-14ND10	A16PC(G)3-18ND10	A16PC(G)3-22ND10

COIL VOLTAGES*

AC Coil (60Hz)**

	Part No.	Part No.	Part No.	Part No.
24V	**A16PC3-10ND10-AC24V**	**A16PC3-14ND10-AC24V**	**A16PC3-18ND10-AC24V**	**A16PC3-22ND10-AC24V**
110-120V	**A16PC3-10ND10-AC110V**	**A16PC3-14ND10-AC110V**	**A16PC3-18ND10-AC110V**	**A16PC3-22ND10-AC110V**
200-240V	**A16PC3-10ND10-AC180V**	**A16PC3-14ND10-AC180V**	**A16PC3-18ND10-AC180V**	**A16PC3-22ND10-AC180V**

DC Coil (Standard double winding coil - regular power consumption)

24V	**A16PC3-10ND10-DC24V**	**A16PC3-14ND10-DC24V**	**A16PC3-18ND10-DC24V**	**A16PC3-22ND10-DC24V**
110V	**A16PC3-10ND10-DC110V**	**A16PC3-14ND10-DC110V**	**A16PC3-18ND10-DC110V**	**A16PC3-22ND10-DC110V**
230V	**A16PC3-10ND10-DC230V**	**A16PC3-14ND10-DC230V**	**A16PC3-18ND10-DC230V**	**A16PC3-22ND10-DC230V**

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)	25A (25A)	25A (25A)	30A (32A)	30A (32A)
Motor FLA@600V AC3@380-400V	10A	14A	18A	22A

HP RATINGS

	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase	1 Phase	3 Phase
110-120V	1/2	1 1/2	3/4	2	1	2	1 1/2	3
200V	1	3	1 1/2	3	2	5	3	5
220-240V	1 1/2	3	2	3	3	7 1/2	3	7 1/2
277V	2	3	3	5	3	7 1/2	5	7 1/2
380-415V	3	5	3	5	5	10	5	10
440-480V	3	5	5	7 1/2	5	10	7 1/2	15
550-600V	3	7 1/2	5	10	7 1/2	15	10	20

OVERLOAD† RELAYS


Setting Range	Standard Part No.	Manual Reset Part No.
0.12 - 0.18	APOL3/32 0.18	APOL12/16E 0.18 C3
0.18 - 0.27	APOL3/32 0.27	APOL12/16E 0.27 C3
0.27 - 0.4	APOL3/32 0.4	APOL12/16E 0.4 C3
0.4 - 0.6	APOL3/32 0.6	APOL12/16E 0.6 C3
0.6 - 0.9	APOL3/32 0.9	APOL12/16E 0.9 C3
0.8 - 1.2	APOL3/32 1.2	APOL12/16E 1.2 C3
1.2 - 1.8	APOL3/32 1.8	APOL12/16E 1.8 C3
1.8 - 2.7	**APOL3/32 2.7**	**APOL12/16E 2.7 C3**
2.7 - 4	**APOL3/32 4**	**APOL12/16E 4 C3**
4 - 6	**APOL3/32 6**	**APOL12/16E 6 C3**
6 - 9	**APOL3/32 9**	**APOL12/16E 9 C3**
8 - 11	APOL3/32 11	APOL12/16E 11 C3
10 -14	**APOL3/32 14**	**APOL12/16E 14 C3**
13 - 18	**APOL3/32 18**	**APOL12/16E 18 C3**
17 - 24	**APOL3/32 24**	APOL12/16E 23 C3
23 - 32	APOL3/32 32	APOL12/16E 30 C3

*Other coil voltages available upon request.
**(50Hz available upon request)
†Stocked parts in **BOLD**)

Supressor Units

Voltage Range	Part No.
12 - 48V AC-DC	AP-RC-C3N-24
48 - 127V AC-DC	AP-RC-C3N-110
110 - 230V AC/DC	AP-RC-C3N-230

Indicators

Coil Voltage	Part No.
24-120V AC/DC	AP-C2UNR
Coil Current	Part No.
24-660V AC/DC Green	Green = AP-C2ING
24-660V AC/DC (Red)	Red = AP-C2INR

Front Mount Auxiliary

Low Level Switching
1 NO = AP-HN10 1 NC = AP-HN01

Up to 25 A Switching
1 NO = AP-HA10 1 NC = AP-HA01

Mechanical Contactor Interlock

For ND & 40A Frames
AP-LG10889

Altech Corp.®

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

Main Contacts	Type		C(G)3-10	C(G)3-14	C(G)3-18	C(G)3-22
Maximum Ambient Temperature						
Operation	open	°C	-40 to +60 (+90)[1]			
	enclosed	°C	-40 to +40			
with thermal overload relay	open	°C	-25 to +60			
enclosed		°C	-25 to +40			
Storage		°C	-50 to +90			
Control Circuit						
Power Consumption of Coils						
AC operated	inrush	VA	33-45			
	holding	VA	7-10			
		W	2. 6-3			
DC operated	inrush	W	75			
double winding coil	holding	W	2			
Cable Cross-Section						
for contactors without thermal overload relay			0.75 - 6			
main connector	solid or stranded	mm²	1 - 4			
			0.75 - 4			
Wire Specifications						
1 cable per terminal						
main connector	solid	AWG	18 - 10 16 - 10 12 - 10			
60°C (Cu)	flexible	AWG	18 - 10 14 - 4 10 - 0			
2 cables per terminal						
60°C (Cu)	solid	AWG	10+(16-10) / 12+(18-12)			
			14+(18-14) / 16+(18-16)			
	flexible	AWG	10+(14-10) / 12+(18-12)			
			14+(18-14) / 16+(18-16)			
Screw / Screwdriver			M3.5 / Pz2			
Tightening Torque			0.8-1.4Nm, 7-12lb. in.			
Mechanical Life						
AC operated		S x 10^6	10			
DC operated		S x 10^6	10			
Short Time Current	10s-current	A	96	120	144	176
	120s-current	A	42	52	58	66
Power Loss per pole	at I_e / AC3 400V	W	0.21	0.35	0.5	0.75
contact resistance		mOhm	2.1	1.8	1.5	1.5
Resistance to Shock acc. to IEC 68-2-27						
Shock time 20ms sine-wave	NO	g	10	10	10	10
	NC	g	6	6	6	6

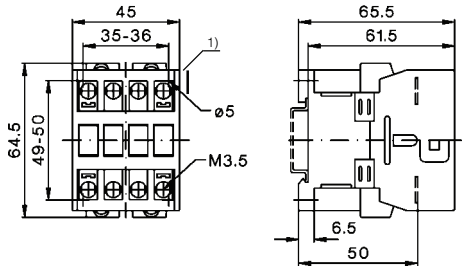
Resistance to Climatic Conditions acc. to IEC60068
Open-type devices are climate-resistant in the constant climate according to IEC60068-2-3 (this is a climate with an ambient temperature of 40°C and an atmospheric humidity of 90 to 95%). Enclosed devices are climate-resistant in an alternating climate 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 Class RK5 / Short-circuit current	A/kA	50/5	50/5	70/5	90/5
Fuse Class T / Short-Circuit current	A/kA	45/100	50/100	70/100	90/100
Rated voltage	V	600	600	600	600

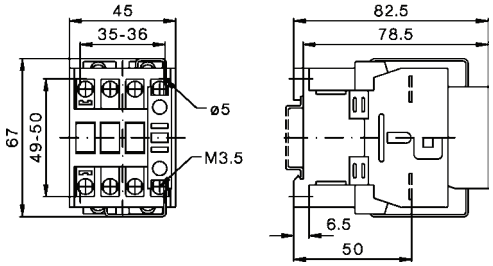
[1] With reduced control voltage range 0.9 up to 1.0 x U_s and with reduced rated current I_e / AC1 according to I_e / AC3.

Contactors

AC Operated C(G)3-10, C(G)3-14, C(G)3-18 and C(G)3-22

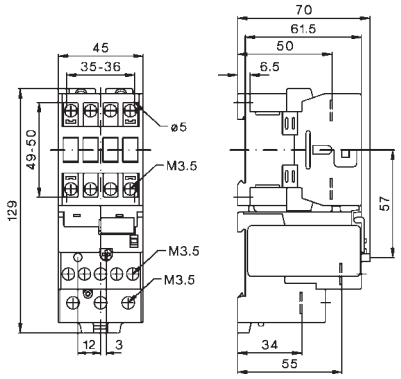


DC Operated C3-10N, C3-14N, C3-18N and C3-22N

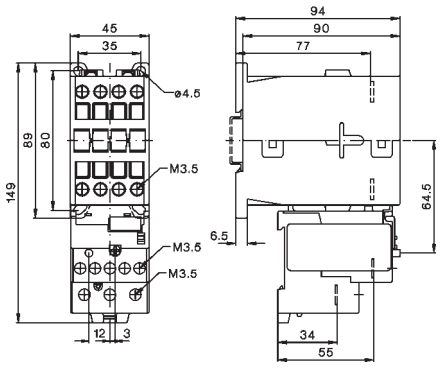


Thermal Overload Relays

C3-10N+APOL3/32, C3-18N, C3-14N and C3-22N



CG3-10N+APOL3/32, CG3-18N, CG3-14N and CG3-22N



PC Contactors