



COMPLY WITH RULES

IEC 947-3, EN 60947-3, UL508



SERIES		P012-P016-P020 PX12-PX16-PX20		
Protection class	control terminals	control terminals	EN 60529 (UL50) NEMA 4X	
			IP65 (Type 1 - 4 - 4X) IP40 IP20 (P0) - IP10 (PX)	
Material group			EN 60947-1	
Pollution grade			EN 60947-1	
Flammability			UL94	
Ambient temperature			°C	
			°C	
Climate Withstand			IEC 68 part 2-3 IEC 68 part 2-30	
Terminal screw identification			EN50013	
Connections	Terminal block caliber		EN60947-1	
	Terminal screw		A3	
	Screwing torque		EN60947-1	
			M3,5	
			0,8 Nm (7,2 lb. in.)	
			7,5 lb. in. (0,85 Nm)	
Connectable section	Flexible conductors min/max		UL508	
			mm ²	
			AWG	
	Solid conductors min/max		mm ²	
			AWG	
Contacts			1x0,75/4 - 2x0,75/2,5 10 - 18	
			1x0,75/4 - 2x0,75/2,5 10 - 18	
			Double breaking	
Opening angles			30° - 45° - 60° - 90°	
Mechanical lifetime at 120 operations for hour			mil./cl	
			1 1 1	
Electrical lifetime at 120 operations for hour			mil./cl	
			1 0,75 0,75	
CERTIFICATIONS		P012 PX12	P016 PX16	P020 PX20
CE	CE mark - Europe	■	■	■
cULus	cUL Listed - USA and Canada	●	●	●
IMQ	IMQ Istituto Marchio Qualità - Italy	●	●	●
CCC	CCC Cina	●	●	●
EAC	EAC Russia	●	●	●

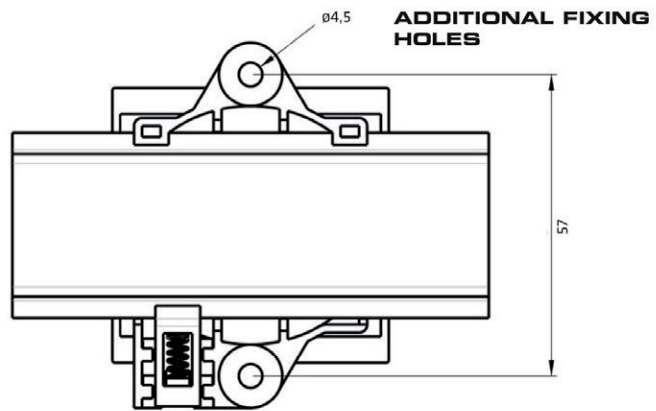
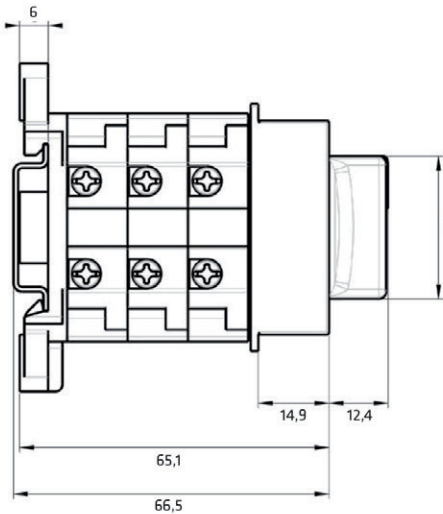
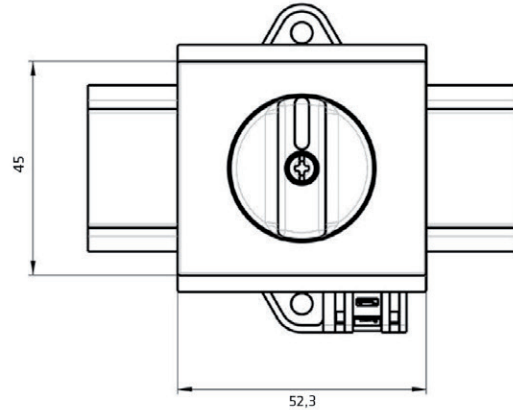
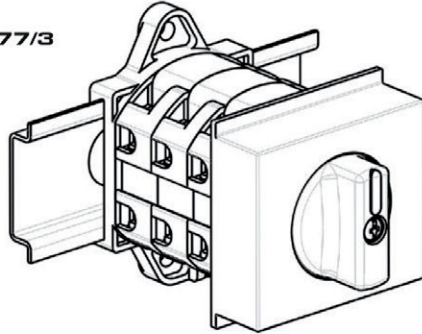
■ Comply to the requirements by passed test. ● Approved.

EN 60947-3 CHARACTERISTICS				P012 - PX12	P016 - PX16	P020 - PX20
Rated operating voltage Ue	V			690	690	690
Rated insulation voltage Ui	V			690	690	690
Rated impulse withstand voltage Uimp (sectionable)	kV			4	4	4
Rated thermal current Ith	A			16	20	25
Rated thermal current in enclosed Ithe	A			12	16	20
Frequency	Hz			50/60	50/60	50/60
RATED OPERATING CURRENT Ie: alternate current				P012 - PX12	P016 - PX16	P020 - PX20
AC-21A Switching resistive loads with light overloads	690V	A		12	16	20
AC-22A Switching mixed resistive and inductive loads at light overloads	690V	A		12	16	20
AC-23A Periodic switching of motors	single phase - 1 pole	110V	A/kW	12/1,1	14/1,5	18/2
		230V	A/kW	12/2,2	14/3	18/4
	3 phases - 3 poles	230V	A/kW	10/3	14/4	16/5
		400V	A/kW	10/5,5	14/7,5	16/9
		500V	A/kW	10/7,5	14/10	16/11
AC3 Starting of cage motors (interruption hile running)	single phase - 2 poles	110V	A/kW	10/0,75	12/1,1	16/1,5
		230V	A/kW	10/2	12/2,2	16/3,5
	3 phases - 3 poles	230V	A/kW	8/2,2	10/3	12/4
		400V	A/kW	8/4	10/5	12/6
		500V	A/kW	8/5,5	10/7,5	12/8
Nominal interruption power AC-23A (cosφ 0,45)	230V	A	80	104	128	
	400V	A	80	104	128	
	500V	A	80	112	128	
	690V	A	80	112	128	
Power dissipation for each pole	W			0,3*	0,35*	0,4*
RATED OPERATING CURRENT Ie: direct current				P012 - PX12	P016 - PX16	P020 - PX20
DC-21A Switching resistive loads with light overloads	50V (1 phase)	A		10	12	16
DC-22A Switching mixed resistive and inductive loads at light overloads	30V (1 phase)	A		8	10	12
SHORT CIRCUIT CHARACTERISTICS				P012 - PX12	P016 - PX16	P020 - PX20
Rated short-time short circuit withstand current Icw (1 s)	A			300	300	300
Rated short circuit making capacity Icm	A			1200	1200	1200
Conditional rated short circuit withstand current	kA			5	5	5
Fuse rating gG	690V	A		20	20	20
UL 508 CHARACTERISTICS				P012 - PX12	P016 - PX16	P020 - PX20
General Use	600V AC	A		12	16	20
Standard motor load	single phase - 2 poles	120V AC	HP (FLA)	0,5 (9,8)	1 (16)	1,5 (20)
		240V AC	HP (FLA)	1 (8)	1,5 (10)	2 (12)
	3 phases - 3 poles	200V AC	HP (FLA)	1,5 (6,9)	3 (11,04)	5 (17,5)
		240V AC	HP (FLA)	3 (9,6)	5 (15,2)	5 (15,2)
		480V AC	HP (FLA)	5 (7,6)	7,5 (11)	10 (14)
		600V AC	HP (FLA)	5 (6,1)	7,5 (9)	10 (11)

▼ Values not reported on the IMQ files. ■ Fuses type gG 40a 500V ▲ Fuses type gG/Gm

| RANGE AC21A | 12A - 16A - 20A |

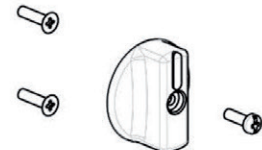
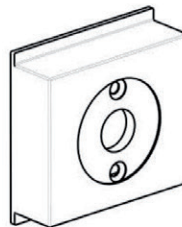
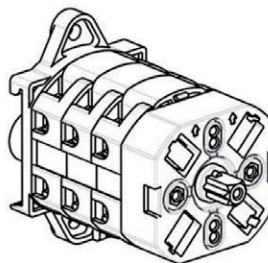
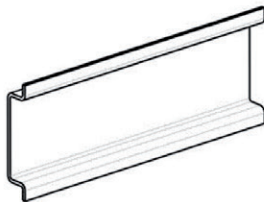
DIN EN46277/3



STEADY Length
3 WAFERS















DIN RAIL SNAP-ON MOUNTING
EN46277/3








12-16-20A

 90°	 90°	 90°	 90°	 90°	 90°																																																																																																																
																																																																																																																					
<table border="1" data-bbox="383 1304 521 1377"> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td></td><td>1-2</td><td></td><td>X</td></tr> <tr><td>WAF</td><td>CONT.</td><td>0</td><td>1</td></tr> </table>	1					1-2		X	WAF	CONT.	0	1	<table border="1" data-bbox="574 1304 712 1377"> <tr><td>1</td><td>3-4</td><td></td><td>X</td></tr> <tr><td></td><td>1-2</td><td></td><td>X</td></tr> <tr><td>WAF</td><td>CONT.</td><td>0</td><td>1</td></tr> </table>	1	3-4		X		1-2		X	WAF	CONT.	0	1	<table border="1" data-bbox="764 1255 902 1377"> <tr><td>2</td><td>5-6</td><td></td><td>X</td></tr> <tr><td>1</td><td>3-4</td><td></td><td>X</td></tr> <tr><td></td><td>1-2</td><td></td><td>X</td></tr> <tr><td>WAF</td><td>CONT.</td><td>0</td><td>1</td></tr> </table>	2	5-6		X	1	3-4		X		1-2		X	WAF	CONT.	0	1	<table border="1" data-bbox="948 1255 1086 1377"> <tr><td>2</td><td>7-8</td><td></td><td>X</td></tr> <tr><td></td><td>5-6</td><td></td><td>X</td></tr> <tr><td>1</td><td>3-4</td><td></td><td>X</td></tr> <tr><td></td><td>1-2</td><td></td><td>X</td></tr> <tr><td>WAF</td><td>CONT.</td><td>0</td><td>1</td></tr> </table>	2	7-8		X		5-6		X	1	3-4		X		1-2		X	WAF	CONT.	0	1	<table border="1" data-bbox="1146 1205 1284 1377"> <tr><td>3</td><td>9-10</td><td></td><td>X</td></tr> <tr><td>2</td><td>7-8</td><td></td><td>X</td></tr> <tr><td></td><td>5-6</td><td></td><td>X</td></tr> <tr><td>1</td><td>3-4</td><td></td><td>X</td></tr> <tr><td></td><td>1-2</td><td></td><td>X</td></tr> <tr><td>WAF</td><td>CONT.</td><td>0</td><td>1</td></tr> </table>	3	9-10		X	2	7-8		X		5-6		X	1	3-4		X		1-2		X	WAF	CONT.	0	1	<table border="1" data-bbox="1336 1205 1474 1377"> <tr><td>3</td><td>11-12</td><td></td><td>X</td></tr> <tr><td></td><td>9-10</td><td></td><td>X</td></tr> <tr><td>2</td><td>7-8</td><td></td><td>X</td></tr> <tr><td></td><td>5-6</td><td></td><td>X</td></tr> <tr><td>1</td><td>3-4</td><td></td><td>X</td></tr> <tr><td></td><td>1-2</td><td></td><td>X</td></tr> <tr><td>WAF</td><td>CONT.</td><td>0</td><td>1</td></tr> </table>	3	11-12		X		9-10		X	2	7-8		X		5-6		X	1	3-4		X		1-2		X	WAF	CONT.	0	1
1																																																																																																																					
	1-2		X																																																																																																																		
WAF	CONT.	0	1																																																																																																																		
1	3-4		X																																																																																																																		
	1-2		X																																																																																																																		
WAF	CONT.	0	1																																																																																																																		
2	5-6		X																																																																																																																		
1	3-4		X																																																																																																																		
	1-2		X																																																																																																																		
WAF	CONT.	0	1																																																																																																																		
2	7-8		X																																																																																																																		
	5-6		X																																																																																																																		
1	3-4		X																																																																																																																		
	1-2		X																																																																																																																		
WAF	CONT.	0	1																																																																																																																		
3	9-10		X																																																																																																																		
2	7-8		X																																																																																																																		
	5-6		X																																																																																																																		
1	3-4		X																																																																																																																		
	1-2		X																																																																																																																		
WAF	CONT.	0	1																																																																																																																		
3	11-12		X																																																																																																																		
	9-10		X																																																																																																																		
2	7-8		X																																																																																																																		
	5-6		X																																																																																																																		
1	3-4		X																																																																																																																		
	1-2		X																																																																																																																		
WAF	CONT.	0	1																																																																																																																		

SERIES	AC21A	1 POLE	2 POLES	3 POLES	4 POLES	5 POLES	6 POLES
P012	12A	P0120001D	P0120002D	P0120003D	P0120004D	P0120005D	P0120006D
P016	16A	P0160001D	P0160002D	P0160003D	P0160004D	P0160005D	P0160006D
P020	20A	P0200001D	P0200002D	P0200003D	P0200004D	P0200005D	P0200006D

ACTUATOR	P012 - P016 - P020	
	 90° -	 90° 027/0001