

ENCLOSED SWITCH-DISCONNECTORS IN STAINLESS STEEL ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

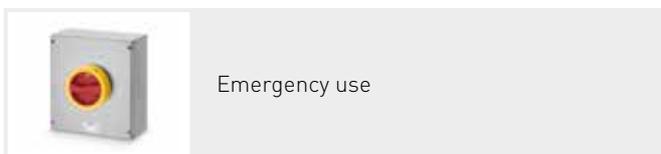
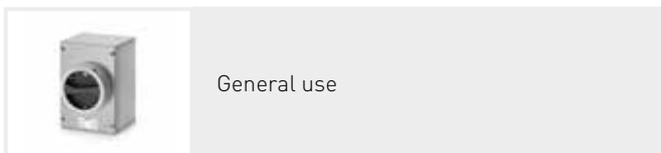
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 6P, 8P
Rated voltage:	690Vac
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Stainless steel AISI 304L ²⁾
Surface finishing:	Fine satin medium Scotch-Brite type
Impact resistance:	IK10
Self extinguishing degree (GWT):	960°C (switch)
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P, 3P+N and 8P versions with early make late break neutral pole. 1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).

Terminal/threaded bar earth conductor connection.

Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Special versions in stainless steel AISI 316L on request.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/bottom	Blank side
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	100x160x90	Top/bottom	Blank side
			Rear	Blank side
20-32-40 High wiring capacity	3P, 3P+N	150x160x90	Top/bottom	Blank side
			Rear	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x220x120	Top/bottom	Blank side
			Rear	Blank side
125-160	3P, 3P+SN, 3P+N	300x400x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/Bottom	Blank side
16-25-32-40 63-80-100	6P, 8P	250x280x120	Top/Bottom	Blank side
			Rear	Blank side
125-160	6P, 8P	300x400x150	Top/Bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 1P+SN

Switch size				Y01			
Rated current I _n				20A	32A	40A	
Rated insulation voltage	U_i	VAC		250	250	250	
Rated impulse withstand voltage	U_{imp}	kV		4	4	4	
Thermal current	I_{the}	A		20	32	40	
Rated operational current I _e	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current	I_{cw}	A		480	480	480	
Conditional short circuit current		kA _{eff}		10	10	10	
Associate fuse size for conditional short circuit current - type gG		A		20	32	40	
Flexible wires		mm ²		1.5-6	1.5-6	1.5-6	
Rigid wires		mm ²		1.5-6	1.5-6	1.5-6	



■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN 2P, 3P, 3P+N

Switch size			Y1			Y2			Y5		
Rated current In			20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	690	690	690	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	4	4	4	8	8	8	8	8	
Rated thermal current	Ith/Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	80	100	125	160
		500V	A	20	25	25	63	63	63	125	125
		690V	A	20	25	25	32	32	32	100	100
	AC23A¹⁾ Rated operational power	415V	Kw	9	15	18.5	35	37	46	55	69
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	-	-	-	-	-
		690V	A	12	18	20	-	-	-	-	-
Short circuit withstand current	Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	10	10	10	30	30	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	20	32	40	63	80	100	125	125	
Flexible wires		mm ²	1.5-10	1.5-10	1.5-10	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	1.5-16	1.5-16	1.5-16	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.



■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size			Y3				Y4			Y5			
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8		
Thermal current	Ithe	A	16	25	32	40	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A ¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000		
Conditional short circuit current		kAeff	50	50	50	50	30	30	30	50	50		
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL005
Switch type		Y1		Y3-Y4-Y5
Contact type		NC NA	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-

