

> INTERLOCKED SWITCH SOCKET OUTLETS



> VERSIONS

	Surface mounting Without fuse carrier
	Surface mounting With fuse carrier
	Flush mounting Without fuse carrier
	Flush mounting With fuse carrier

> REFERENCE STANDARDS

EN 60309-1
Plugs, socket outlets and couplers for industrial purposes
Part 1: general requirements

EN 60309-2
Plugs, socket outlets and couplers for industrial purposes
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations

> QUALITY MARKS



> TECHNICAL CHARACTERISTICS

Rated current:	16A - 32A - 63A
Rated voltage:	100÷690V~
Frequency:	c.c. - 50÷690Hz
Insulating voltage:	500/690V~
Protection degree:	IP44 - IP66/IP67
Operating temperature according to the reference standard:	-25°C+40°C
Max. operating temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK07 - IK08
Cable inlet:	PG/METRIC
Fuse-carriers:	gG 10,3x38 mm
Colour:	Grey RAL 7035

> 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	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

> WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

Rated voltage	Rated current (A)	Socket outlets	
		Min	Max
Over 50V	16A	1,5	4
	32A	2,5	10
	63A	6	25

> APPLICATION EXAMPLES



> TECHNICAL DATA ROTARY SWITCHES

		with fuse		without fuse			
		16A	32A	16A	32A	63A	
		YF16	YF32				
Rated insulation voltage U_i	V_{AC}	690	690	690	690	690	
	V_{DC}	400	400	400	400	-	
Rated impulse withstand voltage U_{imp}	kV	4	4	4	4	8	
Thermal current I_{th}	A	25	32	30	40	63	
Thermal current I_{the}	A	25	32	30	40	63	
lec rating	AC21A Resistive loads, including moderate overloads	400V	-	-	-	-	-
		500V	-	-	-	-	-
		690V	25	32	30	32	63
	AC22A Mixed resistive and inductive loads, including moderate overloads	400V	-	-	-	-	-
		500V	-	-	-	-	-
		690V	30	32	20	32	63
	AC23A Switching off motor loads or other highly inductive loads (3 phase / 3 pole)	400V	-	-	20	32	63
		500V	-	-	-	-	40
		690V	16	25	16	25	30
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	400V	A	28,5	-	28,5	40
		690V	A	12	20	12	20
	DC21A Resistive loads, including moderate overloads	300V	A	25	32	20	32
600V		A	20	32	10(1)	10(1)	
DC22A Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	25	32	
	600V	A			10(1)	10(1)	
Rated short-time withstand current I_{cw} (1s)	A	400	400	400	400	1500	
Short-circuit protection:	Conditional short-circuit current	kA _{eff}	10	10	10	10	
	Associate fuse size for conditional short-circuit current - Type gG	A	16	32	16	32	
	Rated short-circuit making capacity. I_{cm}	A	1500	1500	1500	1500	
UL rating	General use single phase and three phase	600V A	20	30	32	40	63
	AC motor starting break all line single phase	120V Hp	1.5	2	1.5	2	3
		240V Hp	3	5	3	5	7.5
	AC motor B, C, D, starting break all lines three phase	240V Hp	7.5	10	7.5	10	10
		480V Hp	10	15	10	15	20
		600V Hp	15	20	15	20	25
Permissible wire gauge:	Flexible wire	mm ²	1,5-10	1,5-10	1,5 - 10	1,5 - 10	10-35
		AWG	16-8	16-8	16 - 8	16 - 8	10-2
	Flexible wire	mm ²	1,5-16	1,5-16	1,5 - 16	1,5 - 16	10-35
		AWG	16-8	16-8	16-8	16-8	10-2

(1) 2+2 poles in series. UL approve values. IMQ approved values.

> DIMENSIONS

16A - 32A

PG VERSION

Knock out holes	PG16	PG21
Right side	2	
Left side	2	
Upper side	2	1
Bottom side		1
Rear side	2	

METRIC VERSION

Right side	2xM20
Left side	2xM20
Upper side	3xM20/M25
Bottom side	2xM20/M25
Rear side	2xM20/M25

(*) distance 54 becomes 58 for versions with fuse-holder base

IP44		A	B	C	D	L	H	IP67		A	B	C	D	L	H		
Without fuse-holder base	16A	2P+E	198	95	51	95	130	184	Without fuse-holder base	16A	2P+E	202	100	52	100	134	188
	3P+E	205	107	53	107	137	190	3P+E		210	109	54	109	142	195		
	3P+N+E	226	118	54	118	153	207	3P+N+E		230	122	60	122	162	216		
	2P+E	229	121	63	121	161	215	2P+E		235	125	65	125	166	220		
	3P+E	229	121	63	121	161	215	3P+E		235	125	65	125	166	220		
	3P+N+E	236	127	64	127	169	223	3P+N+E		245	130	67	130	166	230		
With fuse-holder base	16A	2P+E	213	95	66	95	145	203	With fuse-holder base	16A	2P+E	217	100	67	100	149	207
	3P+E	220	107	68	107	152	209	3P+E		225	109	69	109	157	214		
	3P+N+E	241	118	69	118	168	226	3P+N+E		245	122	75	122	177	235		
	2P+E	244	121	78	121	176	234	2P+E		250	125	80	125	181	239		
	3P+E	244	121	78	121	176	234	3P+E		250	125	80	125	181	239		
	3P+N+E	251	127	79	127	194	242	3P+N+E		260	130	82	130	181	249		

63A

Flush mounting

Surface mounting

(Dimensions in mm)