

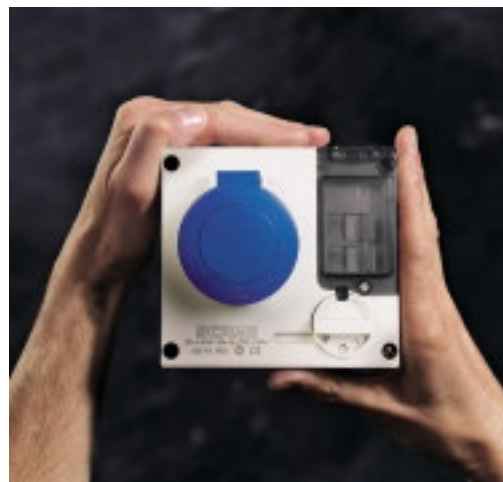
OMNIA Series

Interlocked switch socket outlets

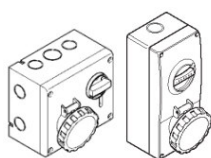
No. Reference SERIES

400 – 401 – 405 - 406

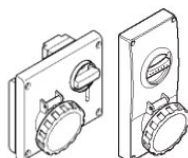
500 – 501 – 505 - 506



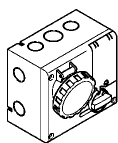
Versions



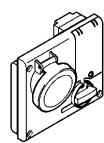
Surface mounting
Without fuse
carrier



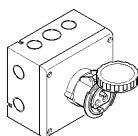
Flush mounting
Without fuse
carrier



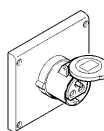
Surface mounting
With fuse
carrier



Flush mounting
With fuse
carrier



Surface mounting
Extra-low
voltage



Flush mounting
Extra-low
voltage

Reference standards

Standards: **EN 60309-1 (1999)**
EN 60309-2 (1999)

Marking

Marking: **CE Marking**



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-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 10,3x38mm**
 Colour: **Grey RAL 7035**

CABLING operations

Cabling 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
50V or less	16A	4	10
	32A	4	10

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Interlocked switch socket outlets

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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

Technical data ROTARY SWITCHES

						With fuse		Without fuse		
						16A	32A	16A	32A	63A
Rated insulation voltage U_i		Vac		690	690	690	690	690	690	690
		Vdc		400	400	400	-	-	-	-
Rated impulse withstand voltage U_{imp}		kV		4	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		
Nominal current rating I_e	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	20	32	20	32	63		
	AC23A	Switching off motor loads or other highly inductive loads (3 phase/3 pole)	400V	-	-	-	-	50		
			500V	-	-	-	-	40		
			690V	16	25	16	25	30		
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase/3 pole)	400V	-	28,5	-	28,5	40		
			690V	12	20	12	20	25		
	DC21A	Resistive loads, including Moderate overloads	300V	25	32	25	32	-		
250V			20	32	20	32	-			
DC22A	Mixed resistive and inductive loads, including moderate overloads	250V	20	32	20	32	-			
Rated short-time withstand current I_{cw} (s)		A		400	400	400	400	1500		
Short-circuit protection:	Conditional short-circuit current	kA		10	10	10	10	10		
	Associate fuse size for conditional short-circuit current – Type gG	500V	A	16	32	16	32	63		
	Rated short-circuit making capacity I_{cm}		A	1500	1500	1500	1500	2850		
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	8-2		
	Rigid wire	mm ²		1.5-16	1.5-16	1.5-16	1.5-16	10-35		
		AWG		16-6	16-6	16-6	16-6	8-2		