

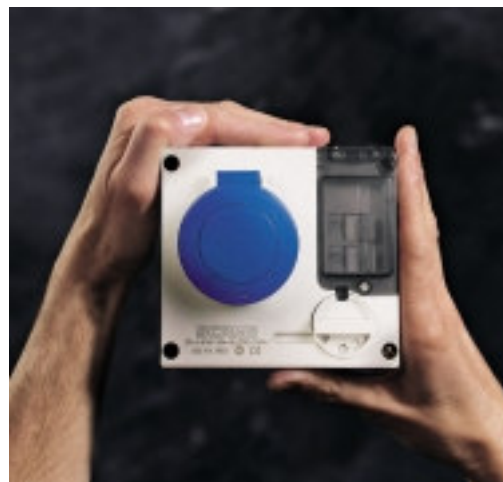
OMNIA Series

Interlocked switch socket outlets

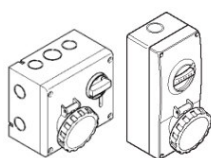
No. Reference SERIES

400 – 401 – 405 - 406

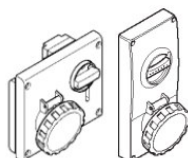
500 – 501 – 505 - 506



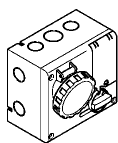
Versions



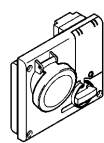
Surface mounting
Without fuse
carrier



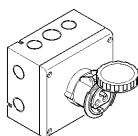
Flush mounting
Without fuse
carrier



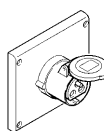
Surface mounting
With fuse
carrier



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

OMNIA Series

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	
					Vdc	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	
Nominal current rating I_e	AC21A	Resistive loads, including moderate overloads	400V	A	-	-	-	-	-		
			500V	A	-	-	-	-	-		
			690V	A	25	32	30	32	63		
	AC22A	Mixed resistive and inductive loads, including moderate overloads	400V	A	-	-	-	-	-		
			500V	A	-	-	-	-	-		
			690V	A	20	32	20	32	63		
	AC23A	Switching off motor loads or other highly inductive loads (3 phase/3 pole)	400V	A	-	-	-	-	50		
			500V	A	-	-	-	-	40		
			690V	A	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	25			
DC21A	Resistive loads, including Moderate overloads	300V	A	25	32	25	32	-			
		250V	A	20	32	20	32	-			
DC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	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		