

# OMNIA Series

## Interlocked switch socket outlets

### No. REFERENCE SERIES

<b>400</b>	<b>500</b>
<b>401</b>	<b>501</b>
<b>405</b>	<b>505</b>
<b>406</b>	<b>506</b>



### 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 (mm<sup>2</sup>)

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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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	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		-	-	-	-	-		
			690V		25	32	30	32	63		
	AC22A	Mixed resistive and inductive loads, including moderate overloads	400V	A	-	-	-	-	-	-	
			500V		-	-	-	-	-		
			690V		30	32	20	32	63		
	AC23A	Switching off motor loads or other highly inductive loads (3 phase/3 pole)	400V	A	-	-	-	-	-	50	
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	40		
		690V		12	20	12	20	25			
DC21A	Resistive loads, including Moderate overloads	300V	A	25	32	25	32	-	-		
				20	32	20	32	-			
DC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	20	32	-	-		
				1500	1500	1500	1500	2850			
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 <sup>2</sup>		1.5-10	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 <sup>2</sup>		1.5-16	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		