

## INTERLOCKED SWITCH SOCKET OUTLETS



## VERSIONS

	Without fuse carrier
	With fuse carrier
	With fuse carrier - HD
	With DIN rail (6 modules)
	With DIN rail (6 modules) - HD

## REFERENCE STANDARDS

<p><b>EN 60309-1</b> Plugs, socket outlets and couplers for industrial purposes. <i>Part 1: general requirements.</i></p>
<p><b>EN 60309-2</b> Plugs, socket outlets and couplers for industrial purposes. <i>Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.</i></p>
<p><b>EN 60309-4</b> Plugs, socket-outlets and couplers for industrial purposes. <i>Part 4: switched socket-outlets and connectors with or without interlock.</i></p>

## QUALITY MARKS



## TECHNICAL CHARACTERISTICS

Rated current:	<b>16A-32A-63A</b>
Rated voltage:	<b>100÷690V~</b>
Frequency:	<b>c.c. - 50÷500Hz</b>
Insulating voltage:	<b>500/690V~</b>
Protection degree:	<b>IP44-IP66/IP67</b>
Operating ambient temperature according to the reference standard:	<b>-25°C +40°C</b>
Max. operating ambient temperature:	<b>60°C</b>
Glow Wire test:	<b>650°C/850°C</b>
Material:	<b>Engineering plastic</b>
IK degree at 20°C:	<b>IK07 (Advance2) IK08 (Advance2-HD)</b>
Cable inlets:	<b>Metric</b>
Fuse-carriers:	<b>gG 10,3x38mm (16-32A) Neozed type D02 (63A)</b>
Colour:	<b>Standard socket</b> Grey RAL 7035 front side and smoke-grey plate <b>Heavy Duty socket</b> Blue RAL 5015 front side and dark-grey RAL 7004 body
Insulation class:	<b>Class II (double insulation) </b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - STANDARD SOCKET

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

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - HD SOCKET

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

## WIRING AND INSTALLATION

Wiring capacity of the terminals

Cross-section of the connectable conductors (mm<sup>2</sup>)

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

## APPLICATION EXAMPLES



## CABLE INLETS



### Compact version 16A and 32A

1 M25 threaded on upper side  
2 marks for M20 on lower side  
1 mark on the back

Provided with cable gland M25



### Large version 16A and 32A

1 M25 threaded on upper side  
3 marks for M20-M32 on lower side  
1 mark on the back

Provided with cable gland M25



### Large version 63A

1 M40 threaded on upper side  
3 marks for M20-M32 on lower side  
1 mark on the back

Provided with cable gland M40

## TECHNICAL DATA SWITCH DISCONNECTORS

				With fuse		Without fuse			
				16A	32A	16A	32A	63A	
Rated insulation voltage <b>Ui</b>	Vac	690	690	690	690	690			
	Vdc	600	600	600	600	-			
Rated impulse withstand voltage <b>Uimp</b>		kV	4	4	4	4	8		
Thermal current <b>Ith</b>		A	25	32	30	40	63		
Thermal current <b>Ithe</b>		A	25	32	30	40	63		
Nominal current rating IEC	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	30	32	20	32	63
	AC23A	Switching off motor loads or other highly inductive loads (3 phase/3 pole)	400V	A	-	-	20	32	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	-
600V			A	-	-	10(*)	10(*)	-	
DC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	20	32	-	
		600V	A	-	-	10(*)	10(*)	-	
Rated short-time withstand current <b>Icw</b> (1s)		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	kA	16	32	16	32	63
	Rated short-circuit making capacity <b>Icm</b>		kA	1500	1500	1500	1500	2850	
UL rating	General use single phase and 3 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 range	Flexible wire	mm <sup>2</sup>	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		
	Rigid wire	mm <sup>2</sup>	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		

(\*) 2+2 poles in series

IMQ approved

UL approved

## INTERLOCKED SWITCH SOCKET OUTLETS



## VERSIONS

	Version with safety transformer compact (module 106) SELV transformer 230/24V
	Version with safety transformer large (module 136) SELV transformer 230/24V
	Version with RAIL DIN 6 modules compact (module 106)

## 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:	<b>16A-32A</b>
Rated voltage:	<b>20÷50V~</b>
Frequency:	<b>c.c. - 50÷60Hz</b>
SELV transformer 220/24V:	<b>150VA</b>
Insulating voltage:	<b>500/690V~</b>
Protection degree:	<b>IP44-IP66/IP67</b>
Operating ambient temperature according to the reference standard:	<b>-25°C +40°C</b>
Max operating ambient temperature:	<b>60°C</b>
Glow Wire test:	<b>650°C/850°C</b>
Material:	<b>Engineering plastic</b>
IK degree at 20°C:	<b>IK07 (Advance2) IK08 (Advance2-HD)</b>
Cable inlets:	<b>Metric</b>
Fuse-carriers:	<b>gG 10,3x38mm</b>
Colour:	<b>Standard socket</b> Grey RAL 7035 front side and smoke-grey plate <b>Heavy duty socket</b> Blue RAL 5015 front side and dark Grey RAL 7004 body
Insulation class:	<b>Class III</b>

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - STANDARD SOCKET

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - HD SOCKET

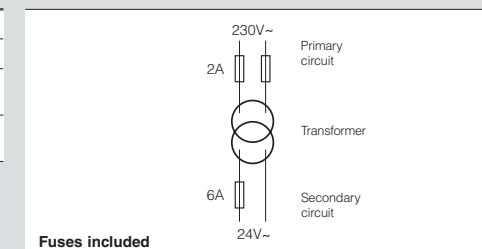
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Limited Resistance	Not Resistant	Resistant	Resistant	Resistant

## WIRING AND INSTALLATION

Wiring capacity of the terminals  
Cross-section of the connectable conductors (mm<sup>2</sup>)

Rated current (A)	Socket outlets	
	Min	Max
16A	4	4
32A	4	10

## PROTECTIONS FOR THE VERSION WITH TRANSFORMER



## APPLICATION EXAMPLES

