

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>EN 60309-1 Plugs, socket outlets and couplers for industrial purposes. <i>Part 1: general requirements.</i></p> |
| <p>EN 60309-2 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>EN 60309-4 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: | 16A-32A-63A |
| Rated voltage: | 100±690V~ |
| Frequency: | c.c. - 50±500Hz |
| Insulating voltage: | 500/690V~ |
| Protection degree: | IP44-IP66/IP67 |
| Operating ambient temperature according to the reference standard: | -25°C +40°C |
| Max. operating ambient temperature: | 60°C |
| Glow Wire test: | 650°C/850°C |
| Material: | Engineering plastic |
| IK degree at 20°C: | IK07 (Advance2) IK08 (Advance2-HD) |
| Cable inlets: | Metric |
| Fuse-carriers: | gG 10,3x38mm (16-32A) Neozed type D02 (63A) |
| Colour: | Standard socket Grey RAL 7035 front side and smoke-grey plate Heavy Duty socket Blue RAL 5015 front side and dark-grey RAL 7004 body |
| Insulation class: | Class II (double insulation) |

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 (mm²)

| 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 Ui | Vac | | | 690 | 690 | 690 | 690 | 690 | |
| | Vdc | | | 600 | 600 | 600 | 600 | - | |
| Rated impulse withstand voltage Uimp | | | | kV | 4 | 4 | 4 | 8 | |
| Thermal current Ith | | | | A | 25 | 32 | 30 | 40 | 63 |
| Thermal current Ithe | | | | 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 Icw (1s) | | | | A | 400 | 400 | 400 | 1500 | |
| Short-circuit protection: | Conditional short-circuit current | | | kA | 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 Icm | | | 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 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 | |
| | Rigid 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 | |

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

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

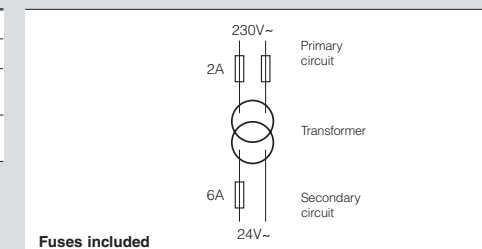
| Saline solution | Acids | | Bases | | Solvents | | | | Mineral oil | UV rays |
|-----------------|--------------------|-----------|--------------------|-----------|-----------|--------------------|---------------|-----------|-------------|-----------|
| | Concentrated | Diluted | Concentrated | Diluted | 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 (mm²)

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

PROTECTIONS FOR THE VERSION WITH TRANSFORMER



APPLICATION EXAMPLES

