

ISOLATORS-HR Series

■ HIGH RATING HINGED SHEET STEEL ENCLOSURE - 200A-1600A

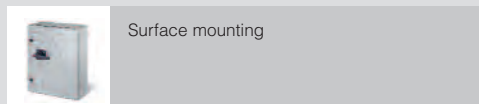


■ REFERENCE STANDARDS

EN 60947-3
Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

EN 60529
Degrees of protection provided by enclosure.

■ VERSIONS



Surface mounting

■ TECHNICAL CHARACTERISTICS

| | |
|--|--|
| Polarity: | 3P-3P+N |
| Rated current: | 160A-200A-250A-315A-400A 500A-630A-800A-1000A 1250A-1600A (*) |
| Protection degree: | IP65 |
| Operating ambient temperature according to the reference standard: | -5°C +40°C |
| Min-Max. operating ambient temperature: | -25°C +60°C |
| Material: | Sheet steel |
| IK degree: | IK10 |
| Finishing/colour: | Polyester powder grey RAL7032 |

3P+N with late break early make neutral pole.
Padlockable handle.
Equipped with door locking.
Full current neutral pole up to 1250A.
(*) Neutral pole 1250A
Full current neutral pole available on request.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

| Saline solution | Acids | | Bases | | Solvents | | | | Mineral oil | Rayons UV |
|-----------------|--------------------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
| | Concentrated | Diluted | Concentrated | Diluted | Hexane | Benzol | Acetone | Alcohol | | |
| Resistant | Limited Resistance | Resistant | Resistant | Resistant | Resistant | Resistant | Resistant | Resistant | Resistant | Resistant |

■ CABLE INLETS

Hinged sheet steel enclosure 3P, 3P+N top/bottom entries

| Size | Rated current (A) | Nr of poles | Enclosure dimensions | Cable entries | |
|------|-------------------|-------------|----------------------|---------------|-------------|
| | | | | Top | Gland plate |
| 1 | 200-250 | 3-3P+N | 500x300x150 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 2 | 315-400-500-630 | 3-3P+N | 600x400x200 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 3 | 800-1000-1250 | 3-3P+N | 700x500x250 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 4 | 1600 | 3-3P+N | 1000x600x300 | Bottom | Gland plate |
| | | | | Top | Gland plate |

Perforated or threaded entries on request.

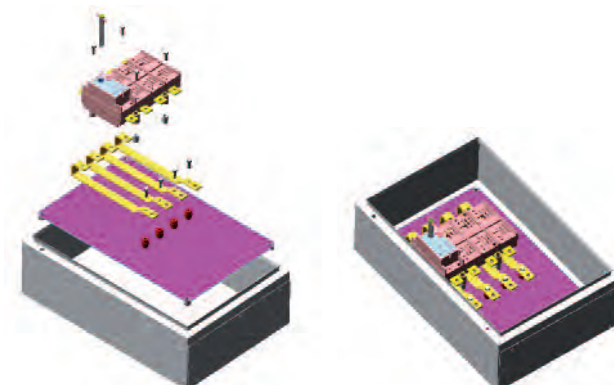
Hinged sheet steel enclosure 3P, 3P+N bottom/bottom entries

| Size | Rated current (A) | Nr of poles | Enclosure dimensions | Cable entries | |
|------|-------------------|-------------|----------------------|---------------|-------------|
| | | | | Top | Gland plate |
| 1 | 200-250 | 3-3P+N | 500x300x150 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 2 | 315-400 | 3-3P+N | 600x400x200 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 3 | 500 | 3-3P+N | 700x500x250 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 4 | 630-800 | 3-3P+N | 800x800x300 | Bottom | Gland plate |
| | | | | Top | Gland plate |
| 5 | 1000-1250-1600 | 3-3P+N | 1000x1000x800 | Bottom | Gland plate |
| | | | | Top | Gland plate |

■ CONNECTIONS

BOTTOM/BOTTOM ENTRIES

Equipped with an insulated bar system which allows the wiring both incoming and outgoing cables from the bottom side without cable bending.



■ APPLICATION EXAMPLES



■ TECHNICAL DATA HIGH RATING SWITCH DISCONNECTORS 3P AND 3P+N

| | | 160A | 200A | 250A | 315A | 400A | 500A | 630A | 800A | 1000A | 1250A | 1600A(*) | | | |
|--|---|---|------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|------|------|
| Rated insulation voltage | Ui | (V) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | |
| Rated impulse withstand voltage | Uimp | (kV) | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | |
| Thermal current | Ith/Ithe | (A) | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600(*) | | |
| Rated operational current – Ie | AC21A | 415V | (A) | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | |
| | Resistive loads, including moderate overloads | 500V | (A) | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | |
| | | 690V | (A) | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1250 | |
| | | AC22A | 415V | (A) | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 |
| | Mixed resistive and inductive loads, including moderate overloads | 500V | (A) | 160 | 200 | 250 | 315 | 400 | 400 | 630 | 800 | 1000 | 1250 | 1250 | |
| | | 690V | (A) | 160 | 200 | 250 | 315 | 400 | 400 | 630 | 800 | 1000 | 1250 | 400 | |
| | AC23A | Switching of motor loads or other highly inductive loads (3 phase / 3 pole) | 415V | (A) | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1250 |
| | | | 500V | (A) | 125 | 125 | 200 | 250 | 315 | 315 | 500 | 800 | 800 | 800 | 800 |
| | | 690V | (A) | 100 | 160 | 160 | 200 | 250 | 250 | 400 | 400 | 400 | 400 | 400 | 400 |
| AC23A Rated operational power | 415V | kW | 85 | 105 | 130 | 165 | 200 | 210 | 330 | 420 | 525 | 630 | 630 | | |
| Rated making capacity | 415V AC23 | (A) | 1600 | 2000 | 2500 | 3150 | 4000 | 4000 | 6300 | 6300 | 6300 | 6300 | 6300 | | |
| Rated breaking capacity | 415V AC23 | (A) | 1280 | 1600 | 2000 | 2520 | 3200 | 3200 | 5040 | 5040 | 5040 | 5040 | 5040 | | |
| Short circuit withstand current 1sec | | (kA) | 8 | 8 | 8 | 13 | 13 | 13 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | | |
| Short circuit withstand current 0.25 sec | | (kA) | 16 | 16 | 16 | 26 | 26 | 26 | 53 | 53 | 53 | 53 | 53 | | |
| Short circuit making capacity | 415V | (kA) | 13.5 | 13.5 | 13.5 | 26 | 26 | 26 | 30 | 30 | 30 | 30 | 30 | | |
| Rated fuse short-circuit current | Back up fuse | (A) | 160 | 200 | 250 | 315 | 400 | 400 | 630 | 800 | 1000 | 1000 | - | | |
| | R.M.S value | (kA) | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 100 | 100 | 100 | - | | |
| | Peak value | (kA) | 16 | 20 | 25 | 25 | 30 | 30 | 40 | 70 | 90 | 100 | - | | |
| | Cable section | mm ² | 120 | 120 | 120 | 185 | 2x150 | 2x150 | 2x185 | 2x240 | - | - | - | | |
| | Bars dimension | mm | 20x5 | 20x5 | 20x5 | 2x (25x4) | 2x (25x4) | 2x (25x4) | 2x (32x6) | 2x (50x5) | 2x (50x6) | 2x (50x8) | 2x (80x102) | | |

(*) Neutral pole 1250A.
Full current neutral pole available on request.

■ AUXILIARY CONTACTS

| | | 590.PL00400x | 590.PL005 | 590.PL0060xx |
|--------------------------------|------|--------------|-----------|--------------|
| Rated thermal current | 400V | 16A | 10A | 10A |
| | 250V | 16A | 16A | 16A |
| Rated operational current AC15 | 400V | 4.5A | - | - |
| | 250V | 6A | 1A | 1A |

Break before main contacts switches.