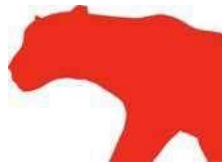


SPECIFICATION TEXT

GDA 63-2500 A



Plug-in busbar

Subject: Prefabricated Busbar Trunking System from 63 A to 2500 A for Power Distribution

Variable Dimensional Characteristics: Poles for rated current in A

MANDATORY TECHNICAL FEATURES Prefabricated busbar trunking system with aluminum conductors compliant with UNI 3570 or electrolytic copper ETP 99.9, equipped with a single-bolt joint and protective aluminum casing. The outer casing must serve as the PE conductor and ensure electrical continuity throughout the busbar system.

The aluminum conductors have an "H" profile to maximize the skin effect.

System Configuration: 3P+N, with a neutral section equal to the phase section, and the PE conductor formed by the aluminum casing, always with a section greater than the phase.

Protection Rating: IP50, upgradable to IP55 (certified).

Installation Suitability: Suitable for ceiling, wall, or vertical riser installations without derating.

Electrical Data:

Rated currents: 63-100-160-250-400-500-630-800-1000-1250-1600-2000-2500 A

Rated operating current at ambient temperature: $T_{med24h} = 43^{\circ}\text{C}$ (24-hour average).

Rated insulation voltage (U_i): 1000 V

Rated frequency: 50-60 Hz

Short-circuit withstand strength, three-phase for 1s: 5 to 50 kA (refer to the data sheet).

Straight Elements:

Standard straight elements of 4 m to minimize the number of joints.

Custom lengths from 0.3 to 3.99 m are available.

Up to 8 tapping points per side of the busbar.

The maximum distance between two consecutive suspension brackets is 3 m.

Special Elements:

Custom-made elements available, including straight sections, angles, double angles, terminal units with or without angles, for all layout requirements.

Panel Connections:

Terminal connections for linking to switchboard busbars, with optional flexible terminals.

Tap-Off Plugs:

Plug-in tap-off plugs with IP55 protection rating, operable under live conditions with rated currents of 32-63-125-250-400 A.

Silver-plated current contact points designed for optimal contact surface with the conductor, insertable every meter along the busbar.

Tap-off boxes:

For 32 A, available with 10.3×38 fuse bases or prepared for mounting a modular circuit breaker.

For 63 A, 125 A, 250 A, and 400 A, available with disconnectable versions equipped with NH00, NH1, and NH2 fuse bases or prepared for mounting a modular circuit breaker.

Bolt-on tap-off plugs at the joint with rated currents of 630-800-1000-1250 A, available with fusible disconnectors or prepared to house MCCBs (Molded Case Circuit Breakers).

Accessories:

- End-feed or intermediate-feed boxes, and end-of-line closure boxes.
- REI 120 fire-resistant wall pass-throughs.
- Suspension systems for horizontal or vertical lines.

REFERENCE STANDARDS:

- IEC 61439/1-6
- CEI EN 61439/1-6
- CEI EN60529
- CE Marking
- ISO9001 Certification

TESTING AND INSPECTIONS:

- Type certificates
- Routine tests (test reports available upon request)

PRODUCT DOCUMENTATION:

- Declaration of conformity to product standards by the manufacturer
- Technical data sheets
- Installation, operation, and maintenance manual.