SPECIMEN TEXT

K SERIES ALUMINIUM 1000-5000 A

Feeder and distribution busbar

Subject: Busbar trunking system from 1000 A up to 5000 A for the transport and distribution of the electric current
Dimensional characteristics variables: (Pole for rated current in A)

SPECIFICATIONS BINDING QUALITY
Sandwich type busbar trunking system with aluminium conductor UNI EN 573/3 individually insulated with a double preshaped film in polyester, self-extinguishing V TM-0 halogen free.
Degree of protection IP42 can be increased up to IP55.
Systems 3P+PE, 3P + N + PE, in which the protective conductor PE is realized by the external housing which ensures the electrical continuity of all the joints, as IEC60367.
External housing is made in aluminium thickness 30/10 (3 mm) mat black painted to ensure a better heat dissipation.
The mono block joint is made with self-cracking screws when the torque is correctly achieved.
Degree of mechanical protection IK09.
Thanks to its high flexibility it can satisfy a wide range of installation types with the chance of installing the busduct in any position, without derating in nominal current and having reduced electromagnetic emissions. This solution also guarantees the reduction of voltage drops along the line. Each single conductor is equipped with a double insulating layer and its construction features allow to achieve high short-circuit values.

Electrical data
Current ratings: 1000-1250-1600-2000-2500-3200-4000-5000 A
Rated operational current at room temperature: Tmax = 40 ° C and Tmed24h = 35 ° C (24-hour average).
Rated insulation voltage Ui: 1000 V
Rated frequency: 50-60 Hz
Short-circuit withstand short-term, three-phase for 1 s: from 72 to 308 kA (see data sheet).
Straight elements
Straight elements standard 4 m in order to minimize the number of joints. There are elements on measure from 0.5 to 3.5 m.
The maximum distance between two consecutive suspension brackets is 2 m.
All elements of any size have a fixed width of 129 mm to minimize the space.

Special Items

Available on measure: straight elements, elbow, double elbows, terminal headers required to make each type of installation.

Connections to panels / transformers

Flexible connections terminals for connection between the terminal header and transformer or inside bars of panel.

Tap-off boxes

On the straight elements can be added plug-in points to add tap off boxes. Tap off boxes can be with fuse base or prefitted for circuit breakers (MCB or MCCB).

Tap off boxes up to 400 A are plug-in type and they can be mounted under voltage.

The contacts of tap off boxes are made in copper silvered and shaped to have a very good surface of contact with the conductor.

Tap off boxes 630 A, 800 A, 1250 A are bolted type.

Accessories

End feed box or center feed box and end cap at the end of the line.

Fire barrier with resistance up to 120 minutes

Suspension systems for horizontal or vertical lines.

REFERENCE STANDARDS

IEC 61439/1-6

CEI EN60529

CE Marking

ISO9001 Certification

REQUIREMENTS AND TESTS

Certificates of type

Routine tests (test reports available on request)

DOCUMENTATION ACCOMPANYING THE PRODUCT

Declaration of compliance with the manufacturer's product

Data sheets

Installation, use and maintenance manual.

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Dimensional characteristics variables: (Pole for rated current in A)

SPECIFICATIONS BINDING QUALITY
Sandwich type busbar trunking system with copper conductor ETP 99,9 individually insulated with a double preshaped film in polyester, self-extinguishing V TM-0 halogen free.
Degree of protection IP42 can be increased up to IP55.
Systems 3P+PE, 3P + N + PE, in which the protective conductor PE is realized by the external housing which ensures the electrical continuity of all the joints, as IEC60367.
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