

SPECIFICATION TEXT

ISOLSBARRA ALUMINIUM 630-5000 A



Power busbars

Busbar trunking system from 630 A to 6300 A for Current Transportation

DIMENSIONAL CHARACTERISTICS

Poles for nominal current in A

BINDING TECHNICAL QUALITY CHARACTERISTICS

Prefabricated busbar with UNI EN 573/3 aluminum conductors, individually insulated, each enclosed in a self-extinguishing PVC insulating sheath ensuring perfect insulation or in a "V0" fiberglass self-extinguishing sheath of thermal class "H" (operating temperature up to +180 °C).

Protection degree: IP42, upgradable to IP66 or IP68 (certified) using a specific heat-shrinkable sleeve, easily removable if necessary.

Systems: 3P, 3P+N (with neutral section equal to the phase section if required), where the PE protective conductor is formed by the lateral structure, ensuring electrical continuity of all junctions.

The lateral structure is made of 20/10 aluminum with non-magnetic 25/10 aluminum assembly plates. If required, the lateral structure will be made of 15/10 stainless steel.

Junctions are secured with 4 bolts per conductor, ensuring durability over the years without maintenance.

Mechanical protection degree: IK09.

ELECTRICAL DATA

Nominal currents: 630-800-1000-1250-1600-2000-2500-3200-4000-5000 A.

Nominal operating current at ambient temperature: $T_{max} = 40\text{ °C}$ and $T_{med24h} = 35\text{ °C}$ (24-hour average).

Nominal insulation voltage U_i : 1000 V.

Nominal frequency: 50-60 Hz.

Short-circuit withstand capacity: Three-phase for 1 second: 33 to 240 kA (refer to data sheet).

STRAIGHT ELEMENTS

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

Custom elements available from 0.4 to 3.99 m.

Maximum distance between two consecutive suspension brackets: 2 m.

All elements, regardless of capacity, have a fixed height of 120 mm to minimize space requirements.

SPECIAL ELEMENTS

Custom straight, angled, double-angle elements, and terminal units with or without angles are available to meet any routing requirement.

CONNECTIONS TO TRANSFORMERS/SWITCHGEAR

Flexible terminal connections for linking terminal heads to transformer terminals or switchgear busbars.

TAP-OFF BOXES

Tap-off boxes bolted onto the joint with nominal currents from 100 to 2500 A, available in versions with fuse holders or pre-configured to accommodate MCCB circuit breakers.

Tap-off boxes can also be placed in predetermined positions on elements at 1-meter intervals with a protection degree of IP40 or IP55.

Current contacts: Silver-plated, designed for optimal contact surface with the conductor.

ACCESSORIES

Feed boxes for terminal or intermediate feeds and end-of-line closure boxes.

Expansion joints and fire-resistant wall penetrations with 180-minute resistance.

Suspension systems for horizontal or vertical lines.

REFERENCE STANDARDS

Standards: IEC 61439/1-6, CEI EN 61439/1-6, CEI EN60529.

Marking: CE.

Certification: ISO 9001.

TESTING AND INSPECTION

Type certificates.

Routine tests** (test reports available upon request).

DOCUMENTATION SUPPLIED WITH THE PRODUCT

Declaration of conformity with product standards by the manufacturer.

Technical data sheets.

Installation, use, and maintenance manual.

SPECIFICATION TEXT

ISOLSBARRA COPPER 630-6300 A



Power busbars

Busbar trunking system from 630 A to 6300 A for Current Transportation

DIMENSIONAL CHARACTERISTICS

Poles for nominal current in A

BINDING TECHNICAL QUALITY CHARACTERISTICS

Prefabricated busbar with 99.9% ETP electrolytic copper conductors, individually insulated, each enclosed in a self-extinguishing PVC insulating sheath ensuring perfect insulation or in a "V0" fiberglass self-extinguishing sheath of thermal class "H" (operating temperature up to +180 °C).

Protection degree: IP42, upgradable to IP66 or IP68 (certified) using a specific heat-shrinkable sleeve, easily removable if necessary.

Systems: 3P, 3P+N (with neutral section equal to the phase section if required), where the PE protective conductor is formed by the lateral structure, ensuring electrical continuity of all junctions.

The lateral structure is made of 20/10 aluminum with non-magnetic 25/10 aluminum assembly plates. If required, the lateral structure will be made of 15/10 stainless steel.

Junctions are secured with 4 bolts per conductor, ensuring durability over the years without maintenance.

Mechanical protection degree: IK09.

ELECTRICAL DATA

Nominal currents: 630-800-1000-1250-1600-2000-2500-3200-4000-5000-6300 A.

Nominal operating current at ambient temperature: $T_{max} = 40\text{ °C}$ and $T_{med24h} = 35\text{ °C}$ (24-hour average).

Nominal insulation voltage U_i : 1000 V.

Nominal frequency: 50-60 Hz.

Short-circuit withstand capacity: Three-phase for 1 second: 33 to 240 kA (refer to data sheet).

STRAIGHT ELEMENTS

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

Custom elements available from 0.4 to 3.99 m.

Maximum distance between two consecutive suspension brackets: 2 m.

All elements, regardless of capacity, have a fixed height of 120 mm to minimize space requirements.

SPECIAL ELEMENTS

Custom straight, angled, double-angle elements, and terminal units with or without angles are available to meet any routing requirement.

CONNECTIONS TO TRANSFORMERS/SWITCHGEAR

Flexible terminal connections for linking terminal heads to transformer terminals or switchgear busbars.

TAP-OFF BOXES

Tap-off boxes bolted onto the joint with nominal currents from 100 to 2500 A, available in versions with fuse holders or pre-configured to accommodate MCCB circuit breakers.

Tap-off boxes can also be placed in predetermined positions on elements at 1-meter intervals with a protection degree of IP40 or IP55.

Current contacts: Silver-plated, designed for optimal contact surface with the conductor.

ACCESSORIES

Feed boxes for terminal or intermediate feeds and end-of-line closure boxes.

Expansion joints and fire-resistant wall penetrations with 180-minute resistance.

Suspension systems for horizontal or vertical lines.

REFERENCE STANDARDS

Standards: IEC 61439/1-6, CEI EN 61439/1-6, CEI EN60529.

Marking: CE.

Certification: ISO 9001.

TESTING AND INSPECTION

Type certificates.

Routine tests** (test reports available upon request).

DOCUMENTATION SUPPLIED WITH THE PRODUCT

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Installation, use, and maintenance manual.

SPECIFICATION TEXT

ISOLSBARRA AIR INSULATION 630-6300 A



Power busbars

Busbar trunking system from 630 A to 6300 A for Current Transportation

DIMENSIONAL CHARACTERISTICS

Poles for nominal current in A

BINDING TECHNICAL QUALITY CHARACTERISTICS

Prefabricated busbar with aluminum with air insulation.

Protection degree: IP30, upgradable to IP40.

Systems: 3P, 3P+N (with neutral section equal to the phase section if required), where the PE protective conductor is formed by the lateral structure, ensuring electrical continuity of all junctions.

The lateral structure is made of 20/10 aluminum with non-magnetic 25/10 aluminum assembly plates. If required, the lateral structure will be made of 15/10 stainless steel.

Junctions are secured with 4 bolts per conductor, ensuring durability over the years without maintenance.

Mechanical protection degree: IK09.

ELECTRICAL DATA

Nominal currents: 630-800-1000-1250-1600-2000-2500-3200-4000-5000-6300 A.

Nominal operating current at ambient temperature: $T_{max} = 40\text{ °C}$ and $T_{med24h} = 35\text{ °C}$ (24-hour average).

Nominal insulation voltage U_i : 1000 V.

Nominal frequency: 50-60 Hz.

Short-circuit withstand capacity: Three-phase for 1 second: 33 to 240 kA (refer to data sheet).

STRAIGHT ELEMENTS

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

Custom elements available from 0.4 to 3.99 m.

Maximum distance between two consecutive suspension brackets: 2 m.

All elements, regardless of capacity, have a fixed height of 120 mm to minimize space requirements.

SPECIAL ELEMENTS

Custom straight, angled, double-angle elements, and terminal units with or without angles are available to meet any routing requirement.

CONNECTIONS TO TRANSFORMERS/SWITCHGEAR

Flexible terminal connections for linking terminal heads to transformer terminals or switchgear busbars.

TAP-OFF BOXES

Tap-off boxes bolted onto the joint with nominal currents from 100 to 2500 A, available in versions with fuse holders or pre-configured to accommodate MCCB circuit breakers.

Tap-off boxes can also be placed in predetermined positions on elements at 1-meter intervals with a protection degree of IP30 or IP42.

Current contacts: Silver-plated, designed for optimal contact surface with the conductor.

ACCESSORIES

Feed boxes for terminal or intermediate feeds and end-of-line closure boxes.

Expansion joints and fire-resistant wall penetrations with 180-minute resistance.

Suspension systems for horizontal or vertical lines.

REFERENCE STANDARDS

Standards: IEC 61439/1-6, CEI EN 61439/1-6, CEI EN60529.

Marking: CE.

Certification: ISO 9001.

TESTING AND INSPECTION

Type certificates.

Routine tests** (test reports available upon request).

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