

BarKlip® XP300 Connector

HIGH POWER AND LOW RESISTANCE 3.00MM BUSBAR CONNECTOR

Amphenol's BarKlip® XP300 connector is designed to mate directly with 3.00mm single pole busbars and provides a convenient method of distributing up to 300A between vertical and horizontal busbars. The connector features 16 independent points of conducting beams ensuring high reliability and ultra-low contact resistance. BarKlip® XP300 is ideal for applications in hyperscale computing architectures using busbars for power distribution in servers, switches, and storage systems.

- Distributes up to 300A
- Supports 48V Power Rack Architecture
- Ideal for high-current busbar power supply/distribution applications
- Ultra-low end-of-life contact resistance of 0.1mΩ
- Busbar misalignment: $\pm 2.00\text{mm}$



TARGET MARKETS



FEATURES

- Contacts with high conductivity Copper Alloy
- Busbar misalignment of $\pm 2.00\text{mm}$
- Mates directly with single pole busbars
- 16-independent points of contact

BENEFITS

- Carries up to 300A/Contact
- Connector can handle adverse tolerances and allow reliable mating to misaligned busbars
- Allows for high-density, simple system architecture designs
- Ultra-low end-of-life contact resistance of 0.1mΩ

TECHNICAL INFORMATION

MATERIAL

- Power Contacts – High Performance Copper Alloy
- Guide Shell – Stainless Steel
- Nut, Screw, Washer – Stainless Steel

ELECTRICAL PERFORMANCE

Power Contacts:

- Up to 300A (30°C temperature-rise over ambient, still air)

Operating Voltage Rating:

- 54VDC (The voltage rating is also dependent on the application)

Contact Resistance

- End-of-life contact resistance of 0.1mΩ

MECHANICAL PERFORMANCE

- Mating Busbar Thickness 3.00±0.10mm (See product Spec Busbar Recommendations)
- Mating/Un-mating Force: Mating force shall not exceed 45N and un-mating shall not be less than 4N
- Durability: 50 mating cycles

ENVIRONMENTAL

- Operating Temperature Range: -55°C to +105 ° C
- RoHS Information: This product is compatible according to the European Union Directive 2011/65/EU

SPECIFICATIONS

- Product Specification: GS-12-1693
- Application Specification: GS-20-0710

APPROVALS AND CERTIFICATIONS

- UL Certification

PACKAGING

- Carton

TARGET MARKETS/APPLICATIONS



Hyperscale Computing Architectures



Power Supplies/ BBU's (Battery Backup Units)



Industrial Energy Storage

PART NUMBERS

Description	Part Numbers
BarKlip® XP300 Connector	10161933-S01LF