38999 Series III-Type Power Connectors, 33 to 225 A

33–225 A · 38999 Series III shell · marine grade





Current rating	33–225 A
Contacts	Size 10 to 4/0
Withstanding voltage	1500 V
Temperature	–65 to +200 °C

Key features

- 38999 Series III-type shell and triple-start thread
- Power contacts size 10 (33 A) to 4/0 (225 A)
- Solder-cup or crimp termination
- Aluminum (olive-drab cadmium), stainless or titanium
- Hermetic receptacles ≤ 1 × 10^{-8} Pa·m^3/s at 0.1 MPa

Specifications

Electrical

Parameter	Value	Condition
Withstanding voltage	1500 / 800 / 200 V	Room temperature / high temperature / humidity
Insulation resistance	≥ 5000 / ≥ 1000 / ≥ 20 MΩ	Room temperature / high temperature / humidity

Mechanical and environmental

Parameter	Value	Condition
Sine vibration	10–2000 Hz, 20 g	
Random vibration	50–2000 Hz, 0.6 g^2/Hz	
Shock	980 m/s^2	
Durability	500 mating cycles	
Altitude	≤ 30,480 m	
Hermetic leak rate	≤ 1 × 10^{-8} Pa·m^3/s	0.1 MPa

Shell materials and finishes

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
W	Aluminum alloy	Olive-drab cadmium	—	—	–65 to +175 °C	Marine grade

Code	Shell material	Finish	Shell conductivity	EMI shielding	Temperature	Salt spray
K	Stainless steel	Passivated	—	—	−65 to +200 °C	Marine grade
TA	Titanium alloy	None	—	—	−65 to +200 °C	Marine grade

Power contacts

Size	Current	Wire	Contact resistance	Solder cup Ø
4/0	225 A	95 mm² (AWG 0000)	≤ 0.09 mΩ	12 mm
2/0	185 A	65 mm² (AWG 00)	≤ 0.10 mΩ	12.7 mm
0	150 A	50 mm² (AWG 0)	≤ 0.14 mΩ	11.45 mm
2	100 A	30 mm² (AWG 2)	≤ 0.17 mΩ	8 mm
4	80 A	20 mm² (AWG 4)	≤ 0.29 mΩ	6.5 mm
8	46 A	8 mm² (AWG 8)	≤ 0.57 mΩ	4.5 mm
10	33 A	5 mm² (AWG 10)	≤ 1.00 mΩ	3.4 mm

Standards

- **GJB 599A Series III (type)** — Shell dimensions.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=GJB599%20power