O-Ring Sealed High-Current Feedthrough Studs, up to 1000 A

105–1000 A · stainless steel · O-ring seal



Current rating	105–1000 A
Withstanding voltage	5000 VAC
Sealing	O-ring
Leak rate	< 1 × 10^{-8} Pa·m³/s
Temperature	–40 to +130 °C

Key features

- Currents from 105 A to 1000 A
- Stainless-steel body; copper stud; epoxy insulation
- Fluorosilicone (–40 to +130 °C), FKM (–20 to +130 °C) or HNBR O-rings
- Leak rate < 1 × 10^{-8} Pa·m³/s; every unit tested at 0.8 MPa
- UN/UNF body threads from 3/4-16 UNF to 1 7/8-12 UN
- Disc-spring washers on the 1000 A model

Specifications

Electrical

Parameter	Value	Condition
Current rating	105–1000 A	By model
Dielectric withstanding voltage	5000 VAC	
Insulation resistance	≥ 5000 MΩ	

Sealing and materials

Parameter	Value	Condition
Leak rate	< 1 × 10^{-8} Pa·m³/s	0.1 MPa pressure differential
Hydrostatic pressure	≥ 8 MPa type test; 0.8 ± 0.05 MPa on every unit	
Operating temperature	–40 to +130 °C / –20 to +130 °C	Fluorosilicone / FKM O-ring
Body	Stainless steel	
Stud	Copper	
Insulation	Epoxy molding compound	

Models

Model	Max. current	Body thread	Stud thread
C/JXZ-TA-2	105 A	3/4-16 UNF	1/4-20 UNC

Model	Max. current	Body thread	Stud thread
C/JXZ-TB-2 (FKM)	275 A	7/8-14 UNF	3/8-16 UNC
C/JXZ-TC-2	500 A	1-16 UN	1/2-13 UNC
C/JXZ-TD-2	750 A	1 1/4-16 UN	5/8-11 UNC
JXZ-45A (HNBR)	1000 A	1 7/8-12 UN	7/8-14 UNF

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