



SciTrue

SciTrue – – An Expert of Slip Ring

High Power Slip Ring

Description

- ▲ High power slip ring is mainly installed in the rotary center of the equipment to transmit large current and various signals between two counter rotating platforms.
- ▲ Generally applying multi-points contact form of gold alloy brush bundle for under 300A current transmission; For more large current application using silver graphite brush block with character of low contact resistance, low electrical and mechanical wear rate and low temperature rise.
- ▲ Full sealing for inner shaft and electric seal between rings is adopted to ensure insulation reliability under harsh environment
- ▲ the electric sealing structure is applied to effectively isolate and shield the channels between high power and signal.



Features

- ◆ Easy for maintenance and installing
- ◆ High concentricity and tilt install capability
- ◆ Low temperature Rising for high current
- ◆ Anti-interference capability for signal
- ◆ well safety at high voltage and stable insulation performance
- ◆ Better environmental adaptability
- ◆ Optional integrated with optical fiber, fluid , RF rotary joints

Typic Application

- ◆ Marine engineering field
- ◆ Engineering machinery
- ◆ shield tunneling machine
- ◆ Great power equipment



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Operating Parameters

Items		Normal	Special
Environmental	Enclosure	IP40	IP67
	Operating Temperature	-40°C~+80°C	-60°C~+60°C / 0°C~+150°C
	Operating Humidity	>95%	100%
Electric	Withstand Voltage	≤690VAC	30KV
	Current Rating	≤1200A	3000A
	Dynamic resistance	≤0.01Ω	≤0.003Ω
	Insulation Resistance	1000MΩ@500VDC	1000MΩ@5000VDC
	Withstand Voltage	1000VAC	50KVAC
Signal Mode		LF, MF, HF electric signals, Optical Fiber signal	
Mechanical	Rotary Speed	0~30rpm	100rpm
	Center Thro Bore	≤300mm	1000mm
	Life (reference)	≥1000 M. R	≥2000 M.R
	As difference of product size and application environment, product life is for reference only, Consult to factory.		

Optional Specification

- ◆ Overall Dimensions
- ◆ Installation dimension and form
- ◆ Shell material and surface treatment
- ◆ Electrical connection modes (cable or connector)
- ◆ Environmental Tests

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