



SciTrue

SciTrue – – An Expert of Slip Ring

Thro. Bore Slip Ring

Description

- ▲ The rotor and the stator of Thro. Bore slip ring are integrated structure type, conveniently installation, mainly used for transmission of low current and low frequency signal (LF).
- ▲ The Channels(rings) are arranged in axial direction, adopting multi-points Gold-Gold contact of brush bundle, with small contact resistance and resistance fluctuation, small friction coefficient and good wear-resisting property and long service life.
- ▲ Insulation materials with low moisture absorption and excellent electrical insulation performance are used between adjacent electrical paths(loops).
- ▲ Power and signal loops are isolated and shielded according to their characteristics.
- ▲ Strong environmental adaptability, meeting high and low temperature, vibration, impact, salt spray, humidity, heat, water and other conditions.



Features

- ◆ Flexible structure, easy installation
- ◆ Small temperature rising for Power transmission, Weak electromagnetic radiation
- ◆ Strong anti - interference ability and lower loss for Signal transmission
- ◆ Better environmental adaptability
- ◆ Possibly integrated with liquid (gas) rotary joint
- ◆ Maintenance-free in life cycle

Typic Application

- ◆ Various communication systems
- ◆ Radar System
- ◆ Fire control system
- ◆ Precision Test machines
- ◆ Robot

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Operating Parameters

Items		Normal	Special
Environmental	Enclosure	IP54	IP68
	Temperature	-40°C~+80°C	-60°C~+80°C 0°C~+150°C
	Humidity	>95%	100%
Electric	Voltage Rating	≤380VAC	3.5KV
	Current Rating	≤40A	200A
	Dynamic resistance fluctuation	≤0.01Ω	≤0.003Ω
	Insulation Resistance	500MΩ@500VDC	1000MΩ@5000VDC
	Withstand Voltage	500VAC	10KVAC
Signal	Types	Audio, Normal video signal, Below 100kbps digital signal, control, bus, current/Voltage signals	
	Number of GH	≤40	≤150
	Dynamic resistance fluctuation	≤0.01Ω	≤0.003Ω
Mechanical	Rotary Speed	0~100rpm	4000rpm
	Central Thro. Bore	≤300mm	≤1500mm
	Life (reference)	≥1000 M. R	≥4000 M. R
	As difference of product size and application environment, product life is for reference only, Consult to factory.		

Optional Specification

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

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