Slip rings

For the rotary transmission of load current, signals, pneumatics and hydraulics



Slip rings IST-SR085

Description:

In general slip rings are used to transmit power, signal or data from a stationary to a rotating platform. The transmission between the stator and rotor takes place via sliding contacts and is extremely reliable. The construction is modular and offers the greatest flexibility in a variety of applications.

Advantages and benefits:

- Rugged design for industrial use
- Modular system construction, load and signal channels can be combined selectively
- · GFPC housing (glass-reinforced polycarbonate) 30 % glass fibre content
- Long service life and long maintenance cycles
- Individually replaceable brush rings
- Customised versions easily available
- Separate signal channels
- Fieldbus signals such as Profibus, CANopen etc. up to 12 MB



Application areas for Slip Rings:

- Packaging machines
- Textile machines
- · Robots and handling equipment
- Cranes
- · Pipeline inspection systems
- Video surveillance (CCTV) equipment
- Fairground rides
- Bottling plants
- Rotary tables

Safety-Trans™-Design:

- Two-cavity system for load and signal
- Labyrinth seal
- High vibration resistance

- transmission

Modular construction system:



1 Copper graphite for high abrasion resistance

- 2 Platinum/Gold alloy (50% Gold content)
- 3 Separate signal channels with contact guide



Stator ring with pickoff spring for load currents.



Insulator with slip ring for load currents.



Stator ring with pickoff spring for signal currents.



Insulator with slip ring for signal currents.

Practical maintenance window:



Secure connections:



Easily accessible connections:



Technical Data (standard version):

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Dimensions:	see drawing
Overall length:	dependent on the number of transmission paths
Bore diameter:	up to ø 30 mm
Current loading:	max. 16 A (at 240 V AC)
Voltage/current loading:	240 V AC (dependent on the current loading)
Contact resistance load channel:	≤ 1 0hm
Contact resistance signal channel:	≤ 0.1 Ohm
Insulation resistance at 500 V DC:	10 ³ MOhm
Dielectric strength:	1000 V eff. (60 sec.)
Speed:	max. 800 1/min
Operating temperature:	0 80 °C
Protection rating:	IP 50 up to IP 64 on request
Service life:	> 500 Mio. revolutions
Maintenance cycles:	approx. 50 Mio. revolutions
Number of rings:	approx. 20

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Slip rings

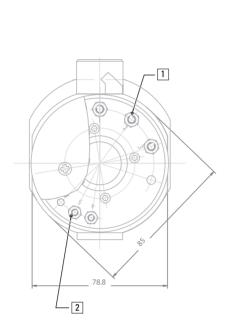
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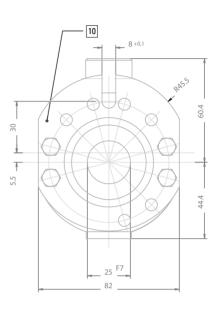
Slip rings IST-SR085

Dimensions:

Example type IST-SR085-2-3-V14



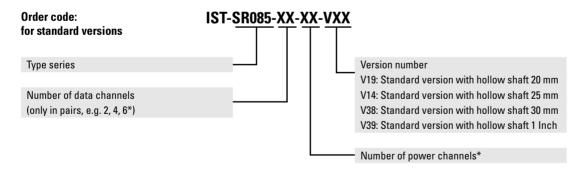
4 5 5 6 6 6 7 114.7 * Length is dependent on the number of transmission paths 8



- 1 Screw terminal M5 for load transmission
- 2 Screw terminal M4 for signal transmission
- 3 Terminal clamp for load without wire protection, with shock-hazard touch protection
- 4 Wire lead-in for load possible on both sides
- 5 Terminal clamp for signal transmission
- 6 Rotating connection ring
- 7 4 x socket set screw DIN 914 M6x10
- 8 Window for maintenance
- 9 Protective cover for connections
- 10 Torque stop

Standard version:

Protection rating IP 50, Signal rings (if present) on the connection side for horizontal mounting and mounting from underneath, terminal connections, for tolerances see dimensional drawing



Accessories: Maintenance set (comprises brush and contact oil for signal contacts) IST-MS-01

* 20 combination max. , for example 4 data channels and 16 power channels

Options on request:

- Pneumatics, hydraulics transmission
- Current 40 A
- Voltage 400 V AC
- Other mounting positions
- Higher protection rating
- Mounting from above
- Load rings 400 V/16 A
- Load rings 240 V AC/25 A