Slip rings
For the rotary transmission of current and signals

Slip rings IST-SR060

Description:
The SR060 is a compact, economical slip ring for up to 3 load and 2 signal transmissions from a stationary to a rotating platform. The transmission between the stator and rotor units occurs extremely reliably via sliding contacts.

Advantages and benefits:
• Various component configurations for the transmission paths, max. 3 x load and 2 x signal transmission
• Fully encapsulated in high-grade glass reinforced plastic housing shells
• Ideally suited for the heating of sealing drums (rollers) in packaging machines
• Can be used as a pair starting from just 60 mm shaft distance of the sealing rollers
• Economical – thanks to minimization of individual components, advantages in mounting and component part design to suit

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

Technical Data (standard version):

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>dependent on the number of transmission paths</td>
</tr>
<tr>
<td>Hollow shaft diameter: up to max. ø 25 mm</td>
<td></td>
</tr>
<tr>
<td>Current loading: max. 16 A (at 240 V AC)</td>
<td></td>
</tr>
<tr>
<td>Voltage/current loading: 240 V AC (dependent on the current loading)</td>
<td></td>
</tr>
<tr>
<td>Contact resistance load channel: ≤ 1 Ohm</td>
<td></td>
</tr>
<tr>
<td>Contact resistance signal channel: ≤ 0.1 Ohm</td>
<td></td>
</tr>
<tr>
<td>Insulation resistance at 500 V DC: 10^3 MOhm</td>
<td></td>
</tr>
<tr>
<td>Dielectric strength: 1000 V eff. (60 sec.)</td>
<td></td>
</tr>
<tr>
<td>Speed: max. 500</td>
<td></td>
</tr>
<tr>
<td>Operating temperature: 0 ° ... 75 °C</td>
<td></td>
</tr>
<tr>
<td>Protection rating: IP 50</td>
<td></td>
</tr>
<tr>
<td>Service life: &gt; 500 Mio. revolutions</td>
<td></td>
</tr>
<tr>
<td>Maintenance cycles: approx. 50 Mio. revolutions</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions:

Example Type IST-SR060

Order code:

IST-SR060-XX-X-V01

Product group: slip ring
Size: ø 60 mm
Hollow shaft diameter*:
18 = ø 18 mm
20 = ø 20 mm
24 = ø 24 mm
25 = ø 25 mm
* other diameters on request
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 Profinet, 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

Technical Data (standard version):

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

Copper graphite for high abrasion resistance
Platinum/Gold alloy (50% Gold content)
Separate signal channels with contact guide

Safety-Trans™-Design:
* Two-cavity system for load and signal transmission
* Labyrinth seal
* High vibration resistance

Modular construction system:

Practical maintenance window:

Secure connections:

Easily accessible connections:
**Slip rings**
*For the rotary transmission of load current, signals, pneumatics and hydraulics*

**Slip rings IST-SR085**

**Dimensions:**
Example type IST-SR085-2-3-V14

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**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

**Order code:**
for standard versions

- **IST-SR085-XX-XX-VXX**
  - **Version number**
    - V19: Standard version with hollow shaft 20 mm
    - V14: Standard version with hollow shaft 25 mm
    - V38: Standard version with hollow shaft 30 mm
    - V39: Standard version with hollow shaft 1 inch
  - **Number of power channels**
  - **Number of data channels** (only in pairs, e.g. 2, 4, 6*)

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**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