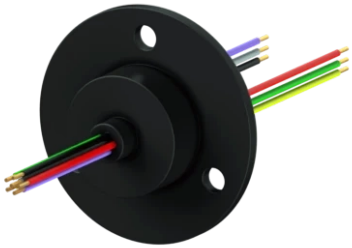

The SVTS A 01-U-X-00/03 is a miniature slip ring with 3 circuits rated at 1 A, IP65 protection and an outer diameter of only 12.4 mm. Its compact format provides signal and low-current transmission across a rotating axis while offering enhanced protection against dust and water jets.

Feature

	SVTS A 01-U-X-00/03
Circuits	3 x 1A
Outside Diameter	12.40 mm mm
Overall Length (L)	21.50 mm mm
Protection rating	IP 65
Data Transfert	<=100Mbit/s
Mounting	Flange / Capsule

Mechanical features

Nominal speed	0-250 rpm
Temperature range	-20°C to +80°C (-40°C as option)
Contact	gold-gold (alloy)
Bearings	Miniature high-precision stainless steel ball bearings
Connector	-
Mounting	Al

Electrical features

Voltage	240 VDC/VAC
Cables	Silver plated / PTFE insulated / colour coded
Cables length	250 mm standard (other length on request)
Dielectric voltage strength	500VAC @ 60Hz @ 60 sec
Insulation resistance	>500MOhm/500VDC
Dynamic contact resistance	10mOhm @ 6VDC and 500mA (@ 5rpm)
Expected lifetime	10^7 revolutions (depending on speed, environmetal conditions and size)

Notice : The provided technical data are the higher limits recommended in static condition. To obtain the correct dimensioning of the product, it is necessary to hold account of all the applicable dynamic forces, including the inertia of the manipulator, the configuration of the tools and the external forces applied.

Advantages

- Only 12 mm outer diameter
- 6, 12 or 18 circuits rated at 1 to 2 A
- Gold-gold contacts for low-noise signal transmission
- Nominal speed up to 500 rpm
- IP51 or IP65 protection depending on configuration
- Expected lifetime up to 10⊠ revolutions depending on operating conditions
- Can be combined with a fluidic rotary joint or FORJ
- Compliant to CE and RoHS

Benefits

- Fits into compact rotating axes requiring enhanced environmental protection
- Allows up to 18 electrical connections to be transmitted within a small-diameter housing
- Maintains signal transmission in environments exposed to dust and water jets
- Allows a miniature slip ring to be used in equipment requiring IP65 protection

Customisations

- Cables
- Materials
- Mechanical design
- Flange