The SVTS D 02-U-A-00/48 is a ruggedized slip ring integrating 48 signal circuits rated at 2 A, with an 87 mm outer diameter and IP65 protection. The rugged D02 format concentrates signal circuits in a single interface designed for demanding industrial environments.

Feature

	SVTS D 02-U-A-00/48
Circuits	48 x 2A
Outside Diameter	87.00 mm mm
Overall Length (L)	129.00 mm mm
Protection rating	IP 65
Data Transfert	<=100Mbit/s
Mounting	Flange / Capsule

Mechanical features

Nominal speed	250-400 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

- Rugged 87 mm diameter stainless steel housing
- Up to 96 circuits depending on configuration
- Power circuits rated up to 15 A
- 2 A signal circuits
- Up to 48 power circuits or 96 signal circuits
- Wide range of combined power and signal configurations
- Nominal speed up to 500 rpm
- Up to 600 VAC/VDC for power circuits
- Fibre brush and gold-gold contact technology
- Low electrical contact resistance
- Compliant to CE and RoHS

Benefits

- Allows 15 A power circuits and 2 A signal circuits to be combined within the same rugged slip ring
- Allows up to 96 electrical connections to be concentrated within a single IP65-protected rotary interface
- Avoids multiplying rotary interfaces when the machine must simultaneously transmit power, control and numerous signals
- Maintains high electrical transmission capacity in demanding industrial environments through its rugged stainless-steel construction

Customisations

- Cables
- Materials
- Mechanical design
- Flange

pes product engineering services
Zoning de la Rivièrette, 65
7330 Saint-Ghislain (Belgium)
T : +32 (0)65 76 40 40
E : service@pes-sa.com