

variables/V-color

# Slip Ring | 18 circuits | SVTS A 03 -U-A-00/18-E1M

Slip ring specially suited to transmit critical signals, such as hi frequency and data rate, low current and voltages (strain gauges, thermocouples, measuring equipment, etc.) and offering a optional fieldbus or Ethernet channel (EtherCAT, Profinet, Profibus, etc.).



## Feature

### SVTS A 03 -U-A-00/18-E1M

<b>Circuits</b>	18 x 2A
<b>Circuits 100 Base TX</b>	
<b>Outside Diameter</b>	22.00 mm mm
<b>Overall Length (L)</b>	50.00 mm mm
<b>Protection rating</b>	IP 65
<b>Data Transfert</b>	<=100Mbit/s
<b>Mounting</b>	Flange / Capsule



## Mechanical features

<b>Nominal speed</b>	0-250 rpm
<b>Temperature range</b>	-20°C to +80°C (-40°C as option)

<b>Contact</b>	gold-gold (alloy)
<b>Bearings</b>	Miniature high-precision stainless steel ball bearings
<b>Connector</b>	-
<b>Mounting</b>	Al



## Electrical features

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

- Option : 100 Base-TX or 1000 Base-T channel with RJ45 plug
- High data rate
- Gold alloy rings and brushes
- Low friction torque
- High lifetime and reliability
- Compliant to CE and ROHS



## Benefits

- Optimal signal transmission (gold-gold technology)
- Cost-effective

## Customisations

- Cables
- Materials
- Mechanical design
- Flange



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