## **Slip rings**

Modular





**Construction system, bearingless** 

SR085B



In general slip rings are used to transmit power, signals or data from a stationary to a rotating platform.

The SR085B is a cost-effective bearingless slip ring. Its flexible modular system allows a wide range of customer-specific applications.

The SR085B is ideally suited for the transmission of signals, data and/or loads.

#### Flexible and slim

- · Modular construction system, can be combined as desired.
- From 33 mm mounting depth.
- · Cost-effective bearingless construction.
- · Long service life and long maintenance cycles.

### **Applications**

Revolving doors, rotary tables, rotary show cases, packaging machines, other low speed applications.

Order	SR085B	-XX	-XX	- 1	0 X -	V100
code	Туре	<b>a</b>	0	<b>O</b>	00	0

Type of mo	untina
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20 = hollow shaft, ø 20 mm [0.79"]

24 = hollow shaft, ø 24 mm [0.94"]

25 = hollow shaft, ø 25 mm [0.98"] 30 = hollow shaft, ø 30 mm [1.18"]

34 = hollow shaft, ø 34 mm [1.34"]

(other options on request)

Number of channels max. 10 channels

Max. load current 1 = 16 A, 240 V AC/DC

d Mounting position

0 = any

e Contact material

3 = silver / precious metal

5 = copper / bronze

• Version number (options) V100 = without options >V100 = options on request

Technical data (standard version)				
Overall length	dep. on the number of transmission paths			
Hollow shaft diameter	up to ø 34 mm [1.34"]			
Voltage/current loading	240 V AC/DC, max. 16 A			
Contact resistance				
load channels	≤ 1 Ohm (dynamic) 1)			
signal / data channels	$\leq$ 0.1 Ohm (silver / precious metal) <sup>2)</sup>			
Insulation resistance	103 MOhm, at 500 V DC			
Dialectric strength	1000 V eff. (60 sec.)			
Speed max.	200 min <sup>-1</sup>			
Protection acc. to EN 60529	IP40			
Service life	typ. 500 million revolutions			
	(at room temperature)			
	depends on installation position			
Maintenance cycles	typ. 100 million revolutions			
Maintenance	contact oil not required			
Operating temperature	0°C +75°C [+32°F +167°F]			

#### Modular construction system

Stator ring with pick-off spring

Insulator with slip ring



<sup>1)</sup> Voltage measurement, ambient temperature, DC series connection, ohmic load, min. 4 A

<sup>2) 2-</sup>wire resistance measurement, ambient temperature, 6.5-digit digital multimeter or similar, values without testing cable.

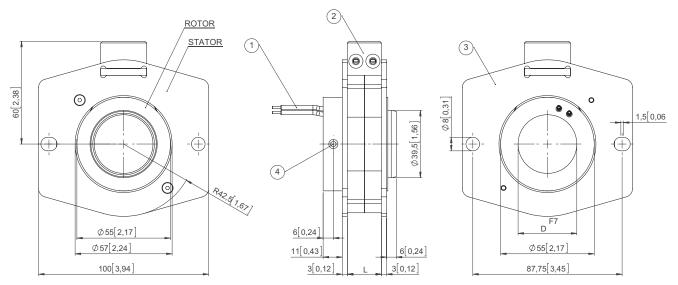


# **Slip rings**

## Modular Construction system, bearingless SR085B

#### **Dimensions**

Dimensions in mm [inch]



Permitted misalignment rotor/stator axial = max 0.5 mm radial = max 0.5 mm

- 1 Connection wires, length 1 m [3.28']
- 2 Terminal clamp for power without wire protection, with shock-hazard touch protection
- 3 Stator cover, mounting plate
- 4  $\,-\,$  4 x socket set screw DIN 914 M6

Calculation of the total length L:

Basic size: 23 mm

Additional dimension: +10 mm per channel