Slip rings

ONNECTRIC SYSTEMS INC.

10 by

 28-207 Edgeley Blvd., Concord, Ontario, L4K 4B5

 Ph: 905-669-0080
 Fax: 905-669-0082

 www.connectric.com
 info@connectric.com

Modular

Construction system

SR085



Flexible and rugged

- Modular construction system, load and signal/data channels can be combined as desired.
- Rugged GFPC housing (glass-reinforced polycarbonate), 30% glass-fibre content for industrial usage.
- Long service life and long maintenance cycles.

The transmission between the stator and rotor takes place via sliding contacts and is extremely reliable.

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

The construction is modular and offers the greatest flexibility in a variety of applications.

Reliable with Safety-Trans[™] Design

- Two-cavity system for load and signal transmission.
- Labyrinth seal.
- High vibration resistance.
- Fieldbus signals such as Profibus, CANopen etc. up to 12 Mbit/sec.

Applications

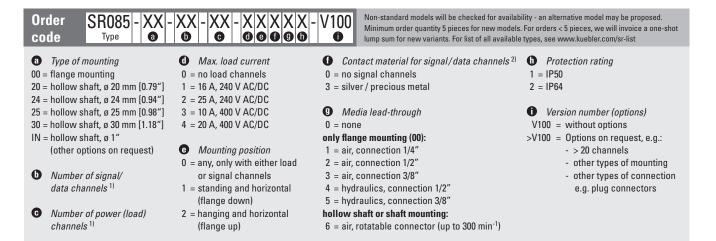
Packaging machines, textile machines, pipeline inspection systems, video surveillance equipment, bottling plants, rotary tables

Standard models

	Signal / data channels	Load channels	Contact material
Hollow shaft	4 x	4 x	silver/precious metal
25 mm [0.98"]	6 x	6 x	silver/precious metal
Hollow shaft	2 x	3 x	silver/precious metal
30 mm [1.18"]	6 x	6 x	silver/precious metal

Delivery time is 10 working days for a maximum of 10 pcs. per delivery. Larger quantities have a delivery time of 15 working days (or alternatively on request). Order-No. SR085-25-04-04-11301-V100 SR085-25-06-06-11301-V100 SR085-30-02-03-11301-V100

SR085-30-06-06-11301-V100



1) Max. 20 signal/data channels (no load), combinations of data and load channels > 13 upon request.

Contact material gold/gold and copper/bronze on request.

Slip rings



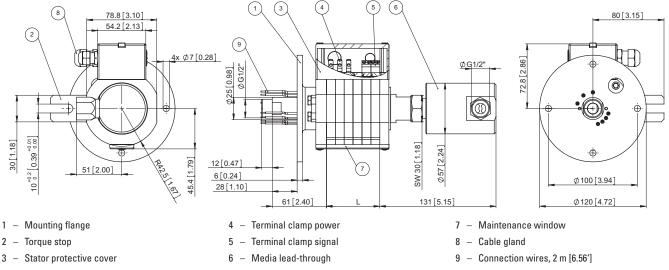
Modular	Construction syste	m	SR085
Fechnical data (standard v	version)	Modular construction system	
		Would construction system	
Overall length Hollow shaft diameter	dep. on the number of transmission paths		Stator ring with pick-off
	up to ø 30 mm [1.18"]		
Type of connection hollow shaft mounting	stator: terminal clamp rotor: screw terminal	Stores.	Insulator with sli
flange mounting	stator: terminal clamp rotor: single wires, 2 m [6.56´] (towards the assembly flange)		K
Voltage/current loading load channels	240 V AC/DC, max. 16 A (order option 1) 240 V AC/DC, max. 25 A (order option 2) 400 V AC/DC, max. 10 A (order option 3) 400 V AC/DC, max. 20 A (order option 4)		5
signal channels	48 V AC/DC, max. 2 A		
Contact resistance load channels	≤ 1 Ohm (dynamic) ¹⁾	Technology in detail	
signal / data channels	\leq 0.1 Ohm (silver / precious metal) ²⁾	Easily accessible connections	Practical maintenance window
Insulation resistance	10 ³ MOhm, at 500 V DC		III N
Dialectric strength	1000 V eff. (60 sec.)	23. 1.1.4	
Speed max. (signal / data chanı	nels) 800 min ⁻¹ , up to 10 channels (depends on installation position and numbers of channels)		• 🔊 •
Service life (signal / data chanr	,		
	typ. 500 million revolutions (at room temperature) depends on installation position	IP64 version with rotor and stator protective cover	Hollow shaft mounting with rotatal connector (air), for tube diameter
Maintenance cycles	first maintenance after 50 million revolutions, all further maintenance intervals after 100 million revolutions		8 mm [0.31"]
Maintenance	contact oil not required	1	
Material pairing			•
load channels	copper / bronze		
signal / data channels	silver / precious metal	41	
Operating temperature	-35°+85°C [-31°F +185°F]		
Protection acc. to EN 60529	max. IP64	Version with media lead-through	
Transmission paths Standards	max. 20 (> 20 on request) EN 61010-1 2001, VDE 0110 part 1, VDE 0295/6.92, VDE 0100 part 523	(air, hydraulics)	
Air connection (media lead			
Air pressure max.	10 bar (150 psi)		
Vacuum max.	7 kPa (2" Hg)		
Speed max.	800 min ⁻¹		
Hydraulics connection (me	edia lead-through no. 4 + 5)		
Hydraulic pressure max.	35 bar (510 psi)		
Speed max.	800 min ⁻¹		
Rotatable connector, air (n	nedia lead-through no. 6)		
Air pressure max.	10 bar (150 psi)		
Speed max.	300 min ⁻¹		
For tube diameter	8 mm [0.31"]		

Voltage measurement, ambient temperature, DC series connection, ohmic load, min. 4 A test current.
 2-wire resistance measurement, ambient temperature, 6.5-digit digital multimeter or similar, values without testing cable.

Slip rings

Kübler

Modular **Construction system SR085** Dimensions Dimensions in mm [inch] Standard version Example: Type SR085-25-02-03-11301-V100 (2 data channels, 3 load channels) 8 ^{+0,1} 0,31 ^{+0,004} 0,000 7 1 5 2 **์**10 000 eq 60,4 2,38 Ψo Ò Ø 0000 Ð ത El Olt Ø43,4[1,71 Ø80[3,15] 35,5[1,40] 5,5[0,22] 44,4[1,75] Ø 5[0,20] D F7 9 8) 9[0,35] 78,8[3,10] 25,95[1,02] 82[3,23 38,75[1,53] 1 - Screw terminal M5 for load transmission 4 - Wire lead-in for power possible on both sides 8 - Maintenance window 2 - Screw terminal M4 for signal transmission 5 _ Terminal clamp for signal transmission 9 - Protective cover for connections 3 Terminal clamp for power without wire 6 Rotating connection ring 10 - Torque stop _ _ protection, with shock-hazard touch protection 7 - 4 x socket set screw DIN 914 M6 Air lead-through versions Example: Type SR085-00-04-03-11322-V100 (5) (4)



Calculation of the overall length

Basic dimensions		
slip ring with hollow shaft	64.5 mm [2.54"]	
slip ring with flange mounting and media lead-through 1/2" or 3/8"	185 mm [7.28"]	
slip ring with flange mounting and media lead-through 1/4"	168 mm [6.61"]	
Additional dimensions		
+ number of signal/data channels (silver / precious metal)	+ 10 mm [0.39"] per data channels	
+ number of load channels, order options 1 and 2	+ 10 mm [0.39"] per load channel	
+ number of load channels, order options 3 and 4 (10 or 20 A, 400 V)	+ 20 mm [0.79"] per load channel, if only load + 10 mm [0.39"]	
+ labyrinth isolation ring for load and signal transmission	+ 10 mm [0.39"]	