

SRH80180 series



Through-bore dia. 80mm

- ◆ Make use of advanced sheaf brush technology to design and manufacture
- ◆ Suffice 360° unrestrained continuous rotation to transmitting power and/or data
- ◆ Product modularize
- ◆ Long life and maintenance-free operation



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Description

A slip ring can be used in any electro-mechanical system that requires unrestrained, continuous rotation while transmitting power and/or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, collector, swivel, or a rotary joint. A slip ring can improve system performance by simplifying operations and eliminating damage-prone wires dangling from movable joints.

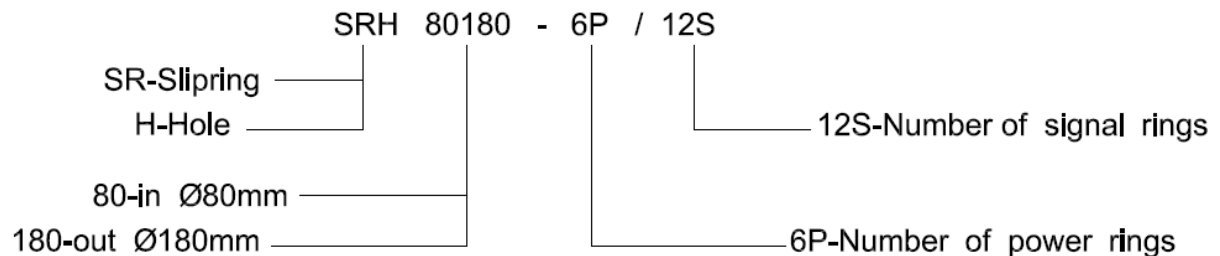
A slip ring are metal rings that provide a continuous electrical connection through brushes on stationary contacts.

It's configuration is column type. each ring lies along the drum axis, like threads on a bolt.

The SRH80180 uses sheaf brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low contact force per brush, low noise and low contact wear rates. In addition, sheaf brushes do not require lubrication and produce virtually no wear debris.

Applications

- ◆ Rotary index tables, machining centers etc Industrial machinery
- ◆ Cable reelst,est equipment and machining centers
- ◆ Heavy equipment turrets
- ◆ Packaging machines, magnetic clutches, palletizing machines
- ◆ Process control equipment
- ◆ Rotary sensors, robotics,emergency lighting
- ◆ Display/ Medical equipment, Exhibit equipment



P, P1, P2 respectively 10A, 15A, 20A

Model	L=mm	Current		Total rings
		Power (10A、 15A or20A)	Signal (5A)	
SRH80180-6P	102	6	—	6

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SRH80180-12S	102	—	12	12
SRH80180-12P	132	12	—	12
SRH80180-6P/12S	132	6	12	18
SRH80180-24S	132	—	24	24
SRH80180-18P	162	18	—	18
SRH80180-12P/12S	162	12	12	24
SRH80180-6P/24S	162	6	24	30
SRH80180-36S	162	—	36	36
SRH80180-24P	192	24	—	24
SRH80180-18P/12S	192	18	12	30
SRH80180-12P/24S	192	12	24	36
SRH80180-6P/36S	192	6	36	42
SRH80180-48S	192	—	48	48
SRH80180-30P	222	30	—	30
SRH80180-24P/12S	222	24	12	36
SRH80180-18P/24S	222	18	24	42
SRH80180-12P/36S	222	12	36	48
SRH80180-6P/48S	222	6	48	54
SRH80180-60S	222	—	60	60
SRH80180-36P	252	36	—	36
SRH80180-30P/12S	252	30	12	42
SRH80180-24P/24S	252	24	24	48
SRH80180-18P/36S	252	18	36	54
SRH80180-12P/48S	252	12	48	60
SRH80180-6P/60S	252	6	60	66
SRH80180-72S	252	—	72	72
SRH80180-42P	282	42	—	42
SRH80180-36P/12S	282	36	12	48
SRH80180-30P/24S	282	30	24	54
SRH80180-24P/36S	282	24	36	60
SRH80180-18P/48S	282	18	48	66
SRH80180-12P/60S	282	12	60	72
SRH80180-6P/72S	282	6	72	78

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SRH80180-84S	282	—	84	84
SRH80180-48P	312	48	—	48
SRH80180-42P/12S	312	42	12	54
SRH80180-36P/24S	312	36	24	60
SRH80180-30P/36S	312	30	36	66
SRH80180-24P/48S	312	24	48	72
SRH80180-18P/60S	312	18	60	78
SRH80180-12P/72S	312	12	72	84
SRH80180-6P/84S	312	6	84	90
SRH80180-96S	312	—	96	96

Electrical data :

Lead	Power: tinning wires, PTFE or PVC insulated Signal: silver plated, PTFE or PVC insulated	
Standard Lead lengths	500mm (other lengths on request)	
Voltage	Power: 0-600VAC	Signal: 0-240VAC
Insulation Resistance	$\geq 500\text{M}\Omega/500\text{VDC}$	$\geq 1000\text{M}\Omega/500\text{VDC}$
Dynamic contact Resistance	$\leq 0.01\Omega$	

Mechanical data

Operate Speed	0 - 400 rpm continuous
Contact material surface	silver alloy
Bearing	Steel ball bearings
Housing	Engineering plastics
Temperature range	-40° C to 80° C
Features	All closed

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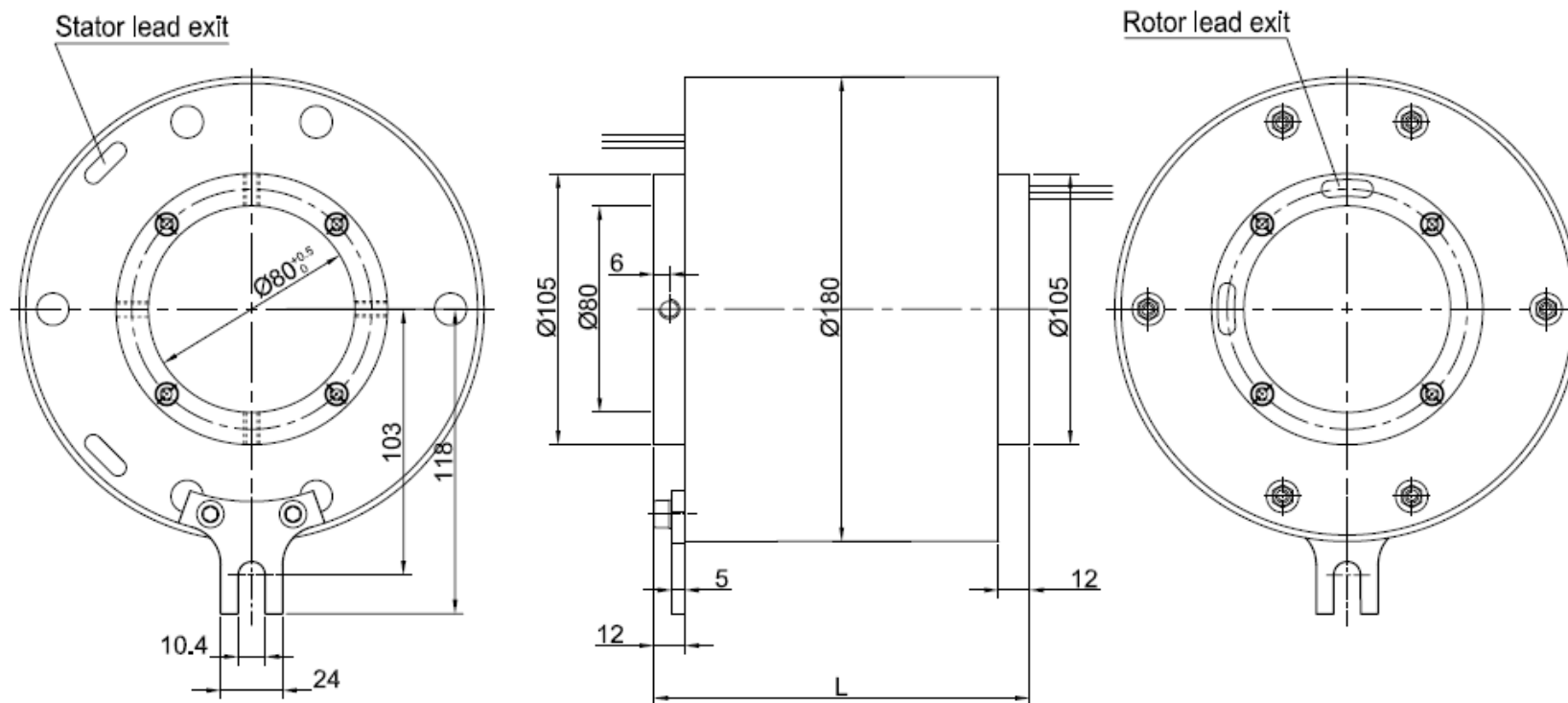
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SRH80180 Outline dimension:



1, Drawings is referenced size, measurements are in millimeters.

2, Rotor and stator leads exit 4 places, 90° apart