

High Current Slip Ring

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Cosmau's high current, multiple contact SRF slip rings can handle hundreds of amperes. In applications like wind turbines, rotary turntable molding machines, conventional slip ring contacts suffer from arcing, friction and inevitable degradation of electrical performance. The SRF operates at 95% energy efficiency with no arcing or breaks in the flow of power, maintaining consistency and quality of power as it's transmitted. This greatly improves product quality and eliminates maintenance costs.



Features:

- Continuous 360° rotation of power
- High-current/multi-contact.
- Eliminates arcing
- No require lubrication
- Power and signal may be combined

SRF SERIES MODEL#

Model#	ID(mm)	OD(mm)	Current(A)	Voltage(V AC/DC)	Number Of Circuits
SRF05A	–	22	5	250	2~12
SRF10A	–	22~40	10	400	2~18
SRF15A	–	22	15	400	2~4
SRF30A	–	22~31	30	440	2~6
SRF50A	–	40	50	600	3, 4
SRF4150	–	158	50~500	690	4

SRF05A Series Overview

Description

SRF05A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm outside diameter, 5A/circuit, 2, 3, 4, 6, 8, 12 circuits are available.



Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~12 wires
Lead Wire	AWG22#, Teflon, 250mm
Voltage	250V AC/DC
Operating Temperature	-20 ℃ to 65 ℃
Current Rating	5A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

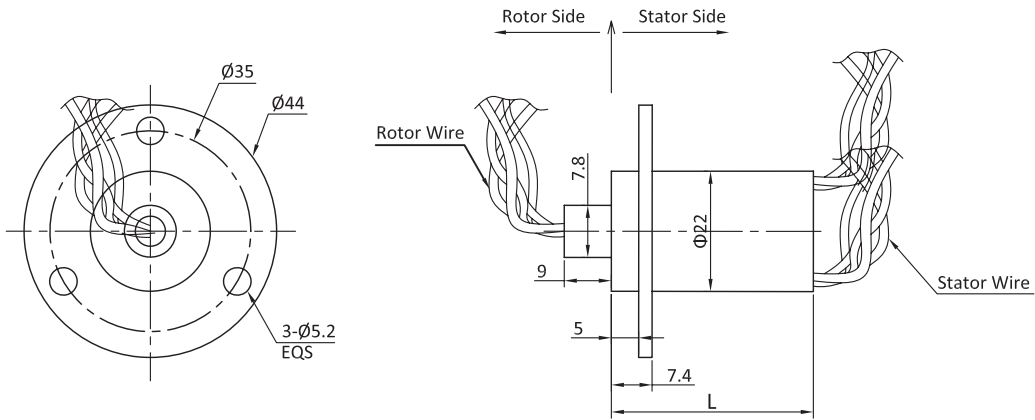
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

SRF05A

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SRF05A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF05A-2	2	–	250	22	19
SRF05A-3	3	–	250	22	26.4
SRF05A-4	4	–	250	22	26.4
SRF05A-6	6	–	250	22	26.4
SRF05A-8	8	–	250	22	35
SRF05A-12	12	–	250	22	42.5

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Power / 5A, AWG22#	7	BLU	Power / 5A, AWG22#
2	BRN		8	VIO	
3	RED		9	GRY	
4	ORN		10	WHT	
5	YEL		11	PINK	
6	GRN		12	SOFT-BLU	

SRF10A Series Overview

Description

SRF10A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm outside diameter, 10A/circuit, 2, 3, 4, 6, 8 circuits are available.



Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~8 wires
Lead Wire	AWG17#, Teflon, 250mm
Voltage	400V AC/DC
Operating Temperature	-20 ℃ to 65 ℃
Current Rating	10A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

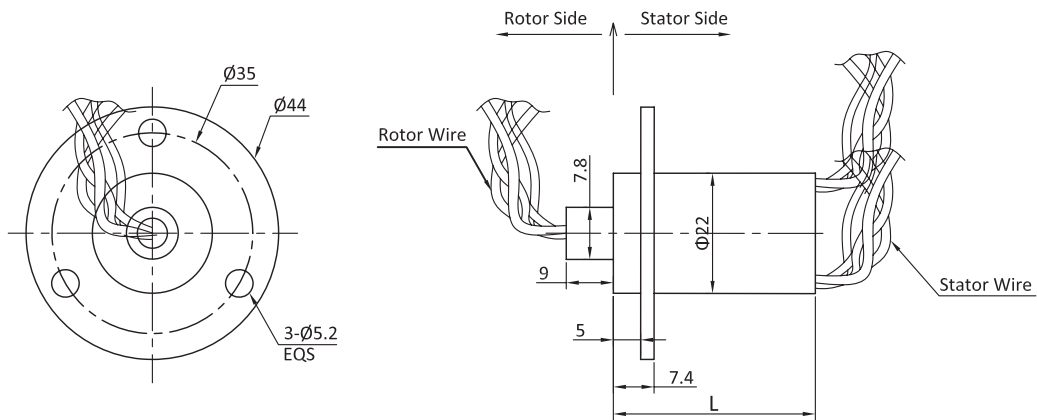
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

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SRF10A

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SRF10A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF10A-2	2	–	400	22	26.4
SRF10A-3	3	–	400	22	26.4
SRF10A-4	4	–	400	22	35
SRF10A-6	6	–	400	22	42.5
SRF10A-8	8	–	400	22	42.5

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

SRF15A Series Overview

Description

SRF15A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm outside diameter, 15A/circuit, 2, 3, 4 circuits are available.



Specifications

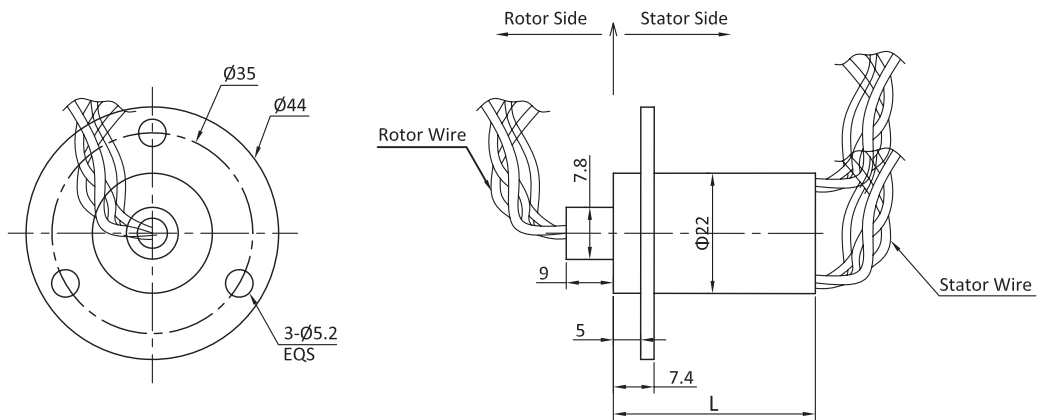
Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~4 wires
Lead Wire	AWG14#, Teflon, 250mm
Voltage	400V AC/DC
Operating Temperature	-20 ℃ to 65 ℃
Current Rating	15A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

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SRF15A

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SRF15A Series Dimensions**Notes:**

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(15A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF15A-2	2	–	400	22	26.4
SRF15A-3	3	–	400	22	35
SRF15A-4	4	–	400	22	42.5

SRF30A Series Overview

Description

SRF30A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm / 31mm outside diameter, 30A/circuit, 2, 3, 4, 6 circuits are available.



Specifications

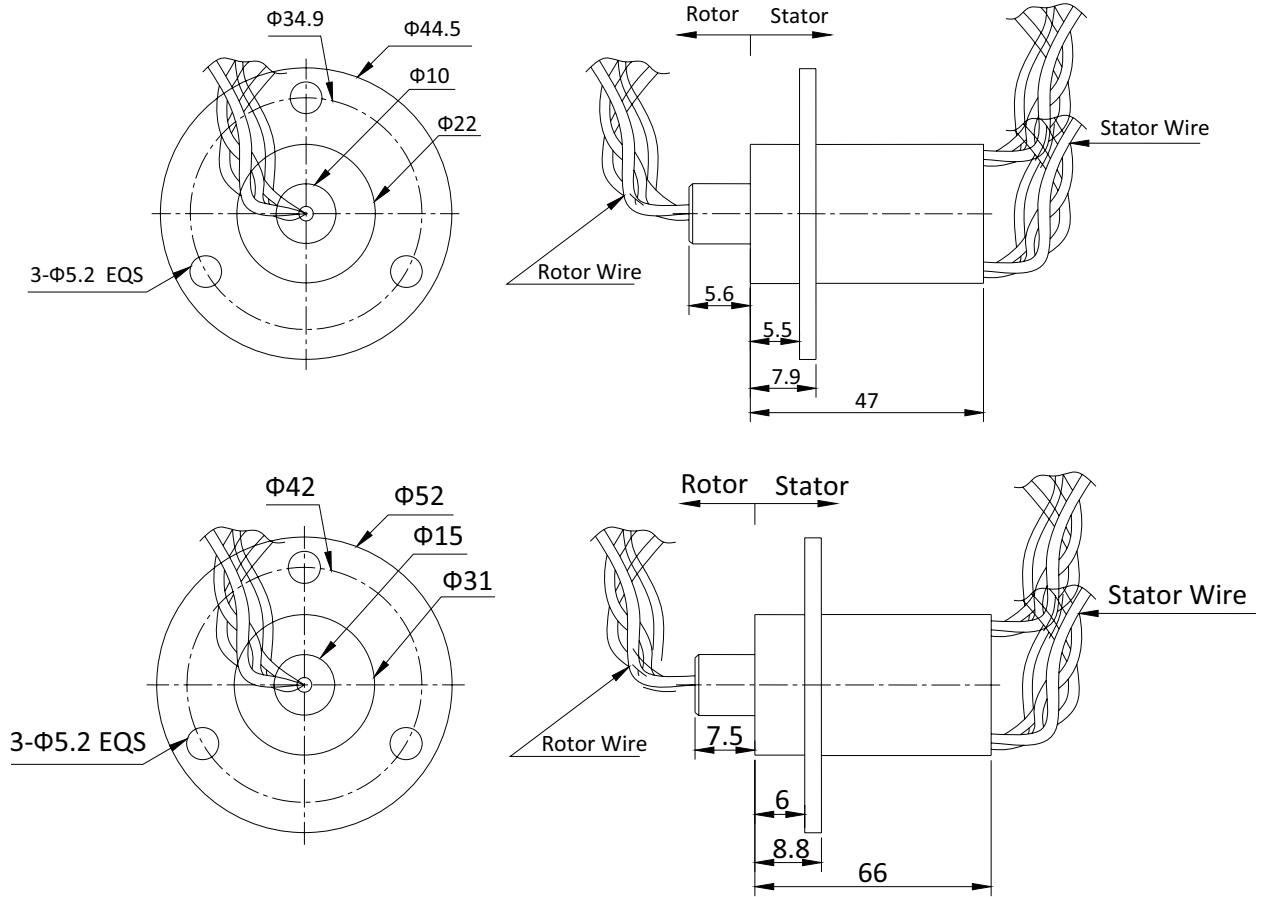
Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~6 wires
Lead Wire	AWG12#, Teflon, 250mm
Voltage	440V AC/DC
Operating Temperature	-20 ℃ to 60 ℃
Current Rating	30A circuits
Noise	<0.01Ω
Torque	<0.1N.m
Housing Material	Plastic
Protection Grade	IP51

* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

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SRF30A

SRF30A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(30A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF230	2	-	440	22	47
SRF330	3	-	440	22	47
SRF430	4	-	440	31	66
SRF630	6	-	440	31	66

SRF50A Series Overview

Description

SRF50A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

40mm outside diameter, 50A/circuit, 3, 4 circuits available.



Specifications

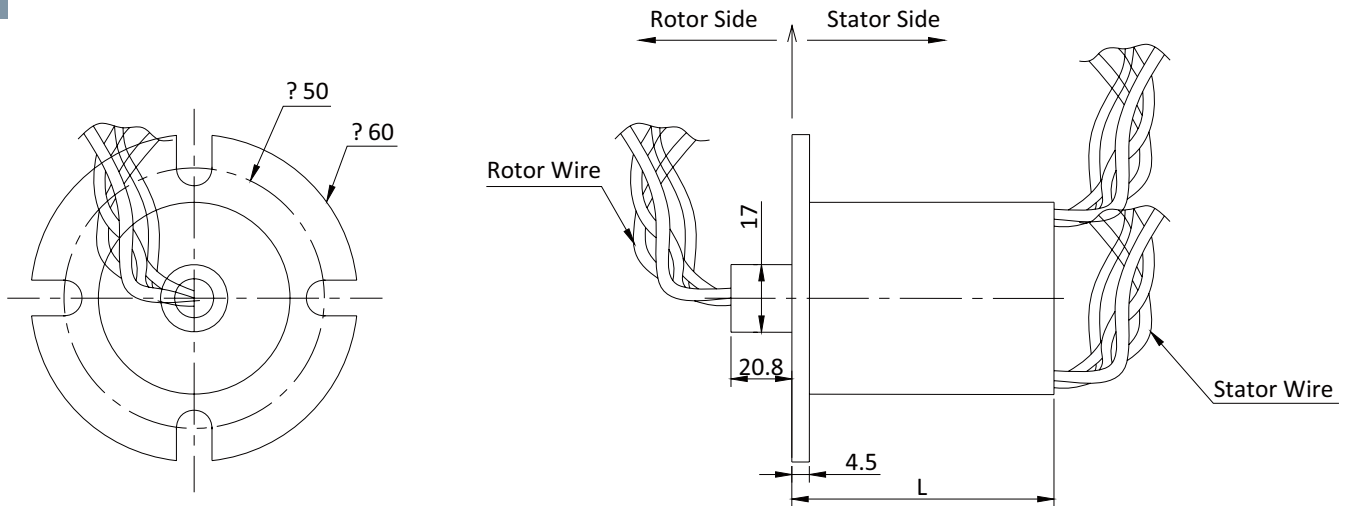
Item	
Operating Speed	Max.150 RPM*
Number of Circuits	3, 4 wires
Lead Wire	AWG8#, Teflon, 250mm
Voltage	600V AC/DC
Operating Temperature	-20 ℃ to 65 ℃
Current Rating	30A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

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SRF50A

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SRF50A Series Dimensions**Notes:**

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(50A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF50A-3	3	-	600	40	49.1
SRF50A-4	4	-	600	40	63.7

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SRF4150

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SRF4150 Series Overview

Description

SRF4150 is large current slip ring, and the rotor and stator separately adopt terminal connection, which is often used in application over 100A. According to the customer's request, it can be customized to add signal and high speed data.



Specifications

Item	
Operating Speed	Max.100 RPM*
Number of Circuits	4
Lead Wire	Terminal
Voltage	690V AC/DC
Operating Temperature	-40 ℃ to 80 ℃
Current Rating	200A~500 circuits
Noise	<0.01Ω
Torque	0.5N.m
Housing Material	Al alloy
Protection Grade	IP51

* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

Options

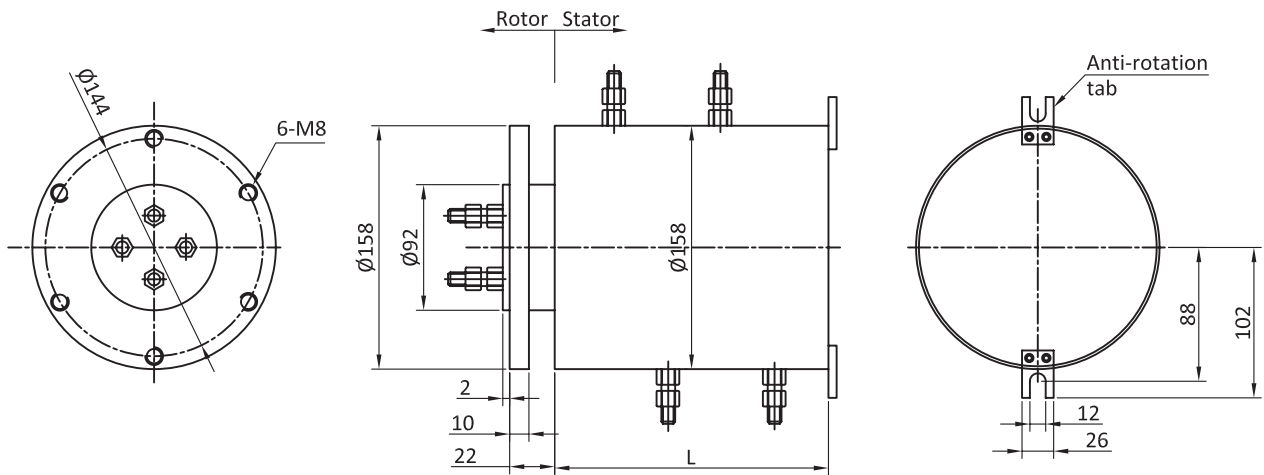
- Hybrid signal / data transmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

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SRF4150

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Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	200A	300A	500A	Voltage(V AC/DC)	Length(mm)
SRF4150-P02200	2	-	-	690	170
SRF4150-P02300	-	2	-	690	170
SRF4150-P02500	-	-	2	690	210
SRF4150-P03200	3	-	-	690	220
SRF4150-P03300	-	3	-	690	220
SRF4150-P03500	-	-	3	690	280
SRF4150-P04200	4	-	-	690	270
SRF4150-P04300	-	4	-	690	270
SRF4150-P04500	-	-	4	690	350