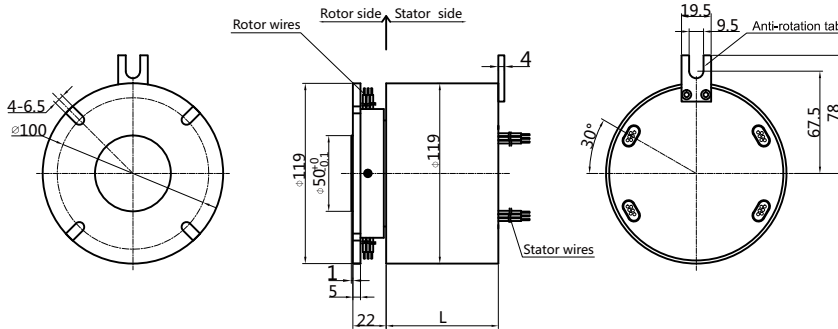
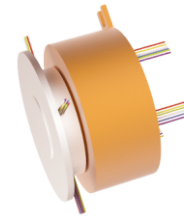


# MZ119F Series Slip Rings

MZ119F series slip ring is a general name for those rotor wires exit from the side, slip rings with OD(outer diameter) 119mm, which is suitable for end face mounting.



## Part# Explanation

MZ 119 F - P 02 10- S 06 - VC

MZ: Rotor flange slip ring	VC: Products quality level
119: OD 119mm	VC: common quality version
F: Rotor flange with cable exit from side	VD: industrial quality version
P: Power ring	Default =VC version
0210: 2 rings , each(0~10A)	06: 6 signal rings, (each 0~5A)
	S: Signal ring

## Part# List

MZ119F series slip ring part list							
Part#	10A	Signal 5A	Length(mm)	Part#	10A	Signal 5A	Length(mm)
MZ119F-S02	0	2	36	MZ119F-S36	0	36	165.2
MZ119F-P0210	2	0	36	MZ119F-P0610-S30	6	30	165.2
MZ119F-S03	0	3	39.8	MZ119F-P1210-S24	12	24	165.2
MZ119F-P0310	3	0	39.8	MZ119F-P3610	36	0	165.2
MZ119F-S06	0	6	51.2	MZ119F-S42	0	42	188
MZ119F-P0210-S04	2	4	51.2	MZ119F-P0610-S36	6	36	188
MZ119F-P0410-S02	4	2	51.2	MZ119F-P1210-S30	12	30	188
MZ119F-P0610	6	0	51.2	MZ119F-S48	0	48	210.8
MZ119F-S12	0	12	74	MZ119F-P0610-S42	6	42	210.8
MZ119F-P0210-S10	2	10	74	MZ119F-P0910-S39	9	39	210.8
MZ119F-P0310-S09	3	9	74	MZ119F-P1210-S36	12	36	210.8
MZ119F-P0610-S06	6	6	74	MZ119F-P1810-S30	18	30	210.8
MZ119F-P0810-S04	8	4	74	MZ119F-P2410-S24	24	24	210.8
MZ119F-P1010-S02	10	2	74	MZ119F-S60	0	60	256.4
MZ119F-P1210	12	0	74	MZ119F-P0610-S54	6	54	256.4
MZ119F-S18	0	18	96.8	MZ119F-P0910-S51	9	51	256.4
MZ119F-P0210-S16	2	16	96.8	MZ119F-P1210-S48	12	48	256.4
MZ119F-P0410-S14	4	14	96.8	MZ119F-S72	0	72	312
MZ119F-P0610-S12	6	12	96.8	MZ119F-P0610-S66	6	66	312
MZ119F-P0810-S10	8	10	96.8	MZ119F-P1210-S60	12	60	312
MZ119F-P1010-S08	10	8	96.8	MZ119F-P2410-S48	24	48	312
MZ119F-P1210-S06	12	6	96.8	MZ119F-P3610-S36	36	36	312
MZ119F-P1410-S04	14	4	96.8	MZ119F-S84	0	84	367.6
MZ119F-P1610-S02	16	2	96.8	MZ119F-P1210-S72	12	72	367.6
MZ119F-S24	0	24	119.6	MZ119F-P2410-S60	24	60	367.6
MZ119F-P0410-S20	4	20	119.6	MZ119F-P3610-S48	36	48	367.6
MZ119F-P0610-S18	6	18	119.6	MZ119F-S96	0	96	413.2
MZ119F-P1210-S12	12	12	119.6	MZ119F-P1210-S84	12	84	413.2
MZ119F-P1810-S06	18	6	119.6	MZ119F-P2410-S72	24	72	413.2
MZ119F-P2410	24	0	119.6	MZ119F-P3610-S60	36	60	413.2
MZ119F-S30	0	30	142.4	MZ119F-P4210-S54	42	54	413.2
MZ119F-P0610-S24	6	24	142.4	MZ119F-S108	0	108	458.8
MZ119F-P1210-S18	12	18	142.4	MZ119F-P1210-S96	12	96	458.8
MZ119F-P1810-S12	18	12	142.4	MZ119F-P2410-S84	24	84	458.8
MZ119F-P2410-S06	24	6	142.4	MZ119F-P3610-S72	36	72	458.8
MZ119F-P3010	30	0	142.4	MZ119F-P4810-S60	48	60	458.8

Note:1. N channels 10A rings parallel can be used as 1 channel N\*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A.  
2. 10A,5A (signal) can combine freely in any way.It can be customized based on standard slip ring,please contact customer service for more detmails.

## Specifications

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wire	AWG16#Teflon	AWG22#Teflon
Lead Length	standard length 300mm(adjustable)	
Insulating Strength	500VAC@50Hz,60s	
Electrical Noise	<0.01Ω	
Mechanical Data		
Parameter	Value	
Working Life	See product quality level table	
Rotating Speed	See product quality level table	
Working Temperature	-30°C~80°C	
Operating Humidity	0~85% RH	
Contact Material	See product quality level table	
Housing Material	aluminum alloy	
Torque	0.1N.m;+0.03N.m/6 rings	
Protection Grade	IP51	

## Product Quality Level Table

Quality Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	15 Million Revs	Precious Metal
VD	1000RPM	80 Million Revs	Gold-Gold

## Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YLW	GRN	BLU	WHT	BLK	RED	YLW	GRN	BLU	WHT

(6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe)

## Options for custom slip ring

Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① Flange size can be customized; cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ High temperature can up to 500 degrees.
- ⑪ High pressure can up to 110KV
- ⑫ Rotating speed can up to 10000RPM
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade
- ⑮ Optional for underwater IP65, IP68.
- ⑯ Optional for stainless steel housing

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