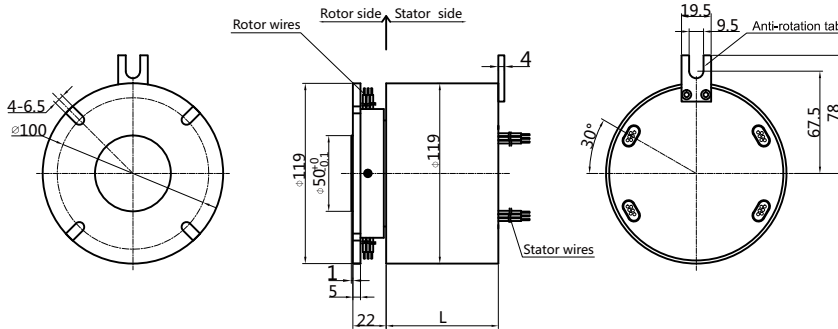
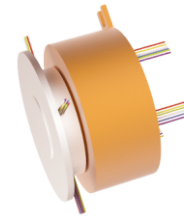


MZ119F Series Slip Rings

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: Rotor flange slip ring | MZ 119 F - P 02 10- S 06 - 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

Technical support: technical@moflon.com