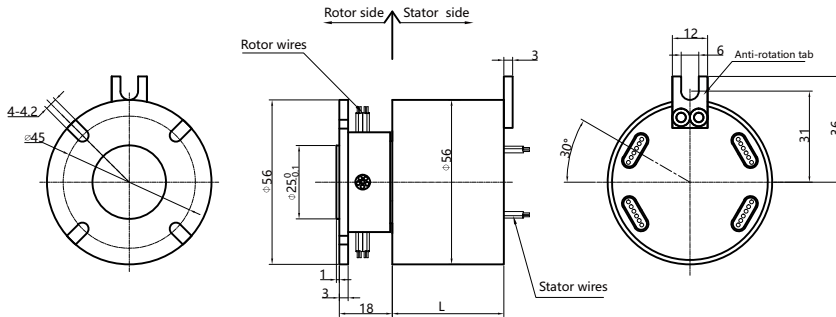
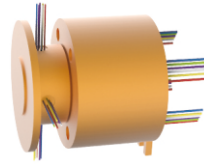


MZ056F Series Slip Rings

MZ056F series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 56mm. Rotor wiring method is flange side face wiring.



Part# Explanation

MZ 056 F - P 02 10- S 06 - VC

MZ: Rotor flange slip ring

056: OD 56mm

F: Rotor flange with cable exit from side

P: Power ring

0210: 2 rings , each(0~10A)

Products quality level

VC common quality version

VD industrial quality version

Default =VC version

06: 6 signal rings, (each 0~5A)

S: Signal ring

Part# List

MZ056F series slip ring part# list

| Part# | 10A | Signal 5A | Length(mm) | Part# | 10A | Signal 5A | Length(mm) |
|------------------|-----|-----------|------------|------------------|-----|-----------|------------|
| MZ056F-S02 | 0 | 2 | 26.8 | MZ056F-P1010-S08 | 10 | 8 | 71.5 |
| MZ056F-P0210 | 2 | 0 | 26.8 | MZ056F-P1210-S06 | 12 | 6 | 71.5 |
| MZ056F-S03 | 0 | 3 | 29.6 | MZ056F-P1410-S04 | 14 | 4 | 71.5 |
| MZ056F-P0310 | 3 | 0 | 29.6 | MZ056F-P1610-S02 | 16 | 2 | 71.5 |
| MZ056F-S06 | 0 | 6 | 38 | MZ056F-S24 | 0 | 24 | 88.4 |
| MZ056F-P0210-S04 | 2 | 4 | 38 | MZ056F-P0410-S20 | 4 | 20 | 88.4 |
| MZ056F-P0410-S02 | 4 | 2 | 38 | MZ056F-P0610-S18 | 6 | 18 | 88.4 |
| MZ056F-P0610 | 6 | 0 | 38 | MZ056F-P1210-S12 | 12 | 12 | 88.4 |
| MZ056F-S12 | 0 | 12 | 54.8 | MZ056F-P1810-S06 | 18 | 6 | 88.4 |
| MZ056F-P0210-S10 | 2 | 10 | 54.8 | MZ056F-P2410 | 24 | 0 | 88.4 |
| MZ056F-P0310-S09 | 3 | 9 | 54.8 | MZ056F-S30 | 0 | 30 | 105.2 |
| MZ056F-P0610-S06 | 6 | 6 | 54.8 | MZ056F-P0210-S28 | 2 | 28 | 105.2 |
| MZ056F-P0810-S04 | 8 | 4 | 54.8 | MZ056F-P0410-S26 | 4 | 26 | 105.2 |
| MZ056F-P1010-S02 | 10 | 2 | 54.8 | MZ056F-P0610-S24 | 6 | 24 | 105.2 |
| MZ056F-P1210 | 12 | 0 | 54.8 | MZ056F-S36 | 0 | 36 | 125 |
| MZ056F-S18 | 0 | 18 | 71.5 | MZ056F-P0410-S32 | 4 | 32 | 125 |
| MZ056F-P0210-S16 | 2 | 16 | 71.5 | MZ056F-P0610-S30 | 6 | 30 | 125 |
| MZ056F-P0410-S14 | 4 | 14 | 71.5 | MZ056F-S42 | 0 | 42 | 158.6 |
| MZ056F-P0610-S12 | 6 | 12 | 71.5 | MZ056F-P0410-S38 | 4 | 38 | 158.6 |
| MZ056F-P0810-S10 | 8 | 10 | 71.5 | MZ056F-S48 | 0 | 48 | 158.6 |

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 detmalls.

Specifications

| Electrical Data | |
|-----------------------|-----------------------------------|
| Parameter | Value |
| | Power Signal |
| Rated Voltage | 0~440VAC/VDC 0~440VAC/VDC |
| Insulation Resistance | ≥1000MΩ/500VDC ≥1000MΩ/500VDC |
| Lead Wire | AWG17#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 | 600RPM | 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