

MW Series Large Current Slip Rings



Features

- Designed for power/current transmitting application.
- Support 500W,1000W,2000W or larger power.
- Standard, off-the-shelf,in stock,free maintenance.
- 3*60A,3*30A,5*30A, etc.. are available.
- Gold plated ring and Gold alloy brush.
- Solid,through bore,flange mounting are available.
- Rings combination is available.
Customized on your request.

MW Series Models

| Model# | Bore(mm) | OD(mm) | Circuit (Ring) | Current/ring (A) | Max voltage(VDC/VAC) |
|--------|----------|---------|----------------|------------------|----------------------|
| MW1000 | 0 | 22~29.8 | 1~18 | 10A~40A | 380 |
| MW2025 | 25.4 | 86 | 1~12 | 10A~150A | 690 |
| MW2050 | 50 | 119 | 1~18 | 10A~500A | 690 |
| MW3086 | 0 | 86 | 1~24 | 10A~150A | 690 |
| MW3119 | 0 | 119 | 1~36 | 10A~500A | 690 |
| MW4032 | 0 | 32 | 1~4 | 30A | 690 |
| MW4045 | 0 | 45 | 6~8 | 30A | 690 |
| MW5045 | 0 | 45 | 1 | 0~1000A | 690 |
| MW5158 | 0 | 158 | 1~4 | 100A~500A | 690 |

60% of MOFLON' s sales are customized solutions, please contact sales for more details.

MW1000 series slip rings

MW1000 Series slip rings are small and compact with OD 22~29.8mm * L 26~78mm, Solid style without through bore and stator flange installation, standard, off-the-shelf. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.



Part# Explanation

MW 1330

MW: large current series slip ring

1 : compact and solid power slip ring, without through bore

330 : 3-3 rings (wire);
30 - ring /30A

Part# List

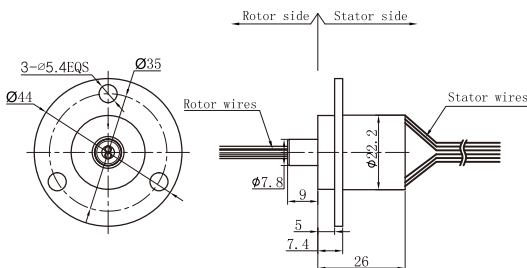
| MW1000 Series Part# List | | | | | | | | | |
|--------------------------|------|----------------------------|---------|-------------|---------|------|----------------------------|---------|-------------|
| Parts# | Ring | Rated current per ring (A) | OD (mm) | Length (mm) | Parts# | Ring | Rated current per ring (A) | OD (mm) | Length (mm) |
| MW1210 | 2 | 10A | 22 | 26 | MW1230 | 2 | 30A | 22 | 45 |
| MW1310 | 3 | 10A | 22 | 33 | MW1330 | 3 | 30A | 22 | 45 |
| MW1410 | 4 | 10A | 22 | 43.6 | MW1430 | 4 | 30A | 29.8 | 66 |
| MW1610 | 6 | 10A | 29.8 | 66 | MW1630 | 6 | 30A | 29.8 | 66 |
| MW1215 | 2 | 15A | 22 | 45.2 | MW1240 | 2 | 40A | 29.8 | 66 |
| MW1315 | 3 | 15A | 22 | 45.2 | MW1340 | 3 | 40A | 29.8 | 66 |
| MW1415 | 4 | 15A | 29.8 | 66 | MW1810 | 8 | 10A | 29.8 | 78.1 |
| MW1615 | 6 | 15A | 29.8 | 66 | MW1101 | 10 | 10A | 29.8 | 78.1 |
| MW1220 | 2 | 20A | 22 | 45.2 | MW1121 | 12 | 10A | 29.8 | 78.1 |
| MW1320 | 3 | 20A | 22 | 45.2 | MW1181 | 18 | 10A | 29.8 | 105.3 |
| MW1420 | 4 | 20A | 29.8 | 66 | MW1930 | 9 | 30A | 29.8 | 105.3 |
| MW1620 | 6 | 20A | 29.8 | 66 | MW13605 | 36 | 5A | 29.8 | 105.3 |

| Protection Grade Parts# List | | | |
|------------------------------|------------------|------|----------------------------|
| Parts# | Protection Grade | Ring | Rated current per ring (A) |
| MW1211-IP65 | IP65 | 12 | 10A |
| MW1330-IP65 | IP65 | 3 | 30A |
| MW1630-IP65 | IP65 | 6 | 30A |

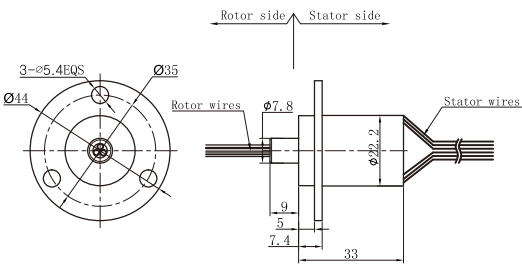
Note: 1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
2) Power rings can be used for signal rings on request.

Dimensions

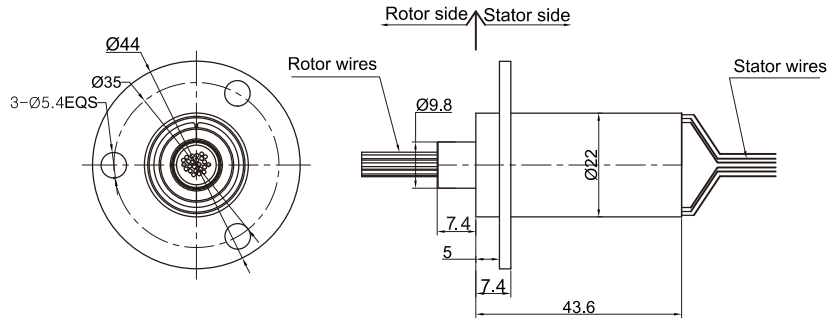
MW1210 Dimensions(2 rings, each ring 10A)



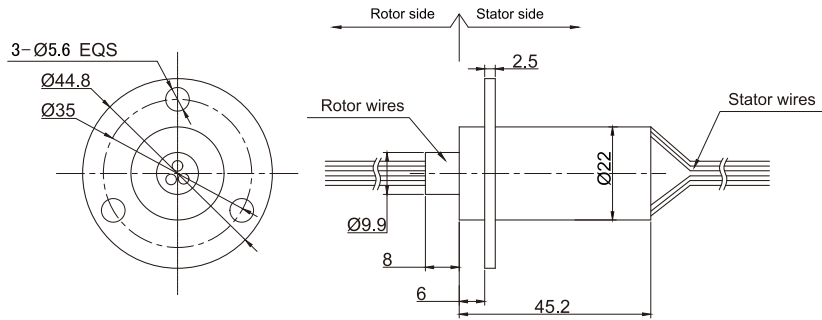
MW1310 Dimensions(3 rings, each ring 10A)



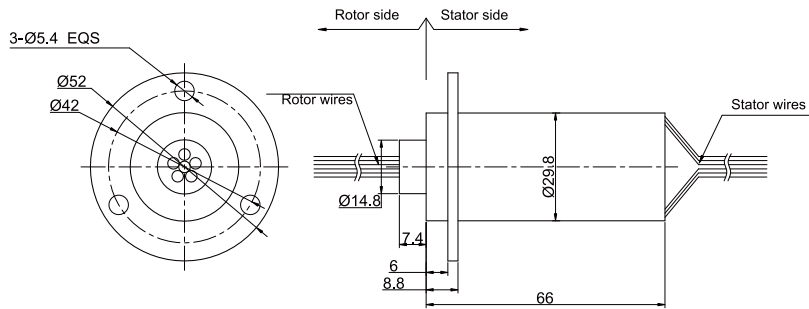
MW1410 Dimensions(4 rings, each ring 10A)



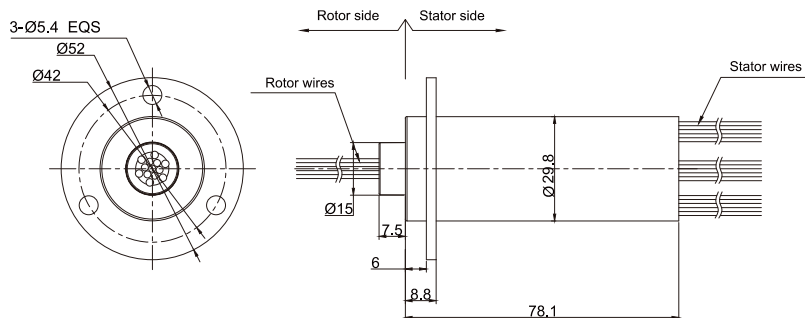
MW1215, MW1315, MW1220, MW1230, MW1320, MW1330 Dimensions



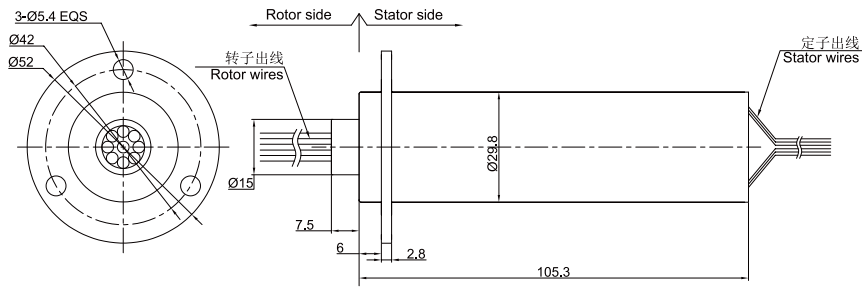
MW1415, MW1615, MW1610, MW1420, MW1430, MW1620, MW1630, MW1240, MW1340 Dimensions



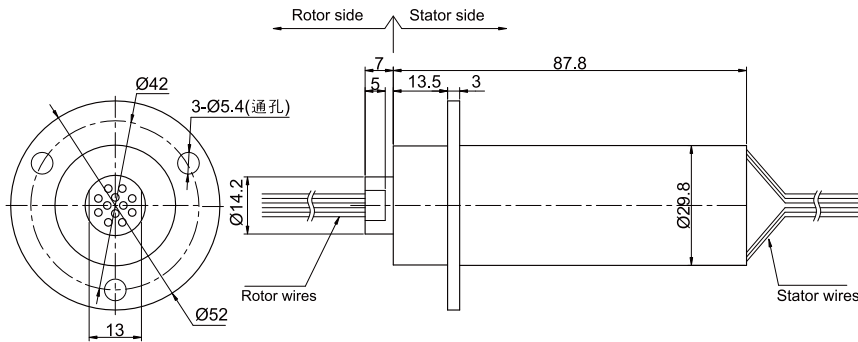
MW1810, MW1101, MW1121 Dimensions



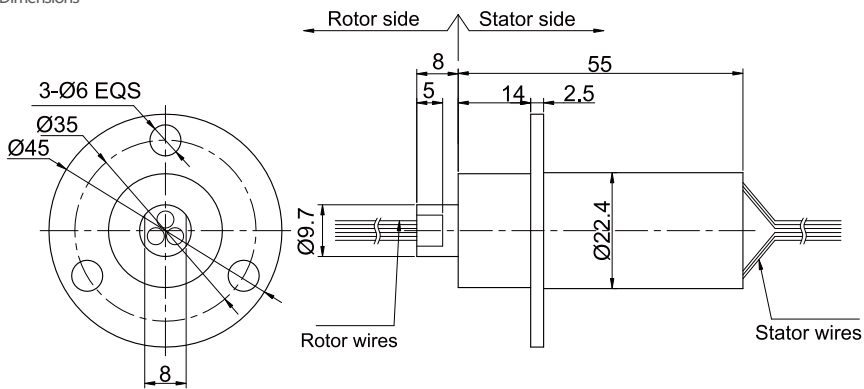
MW1181, MW1930, Mw13605 Dimensions



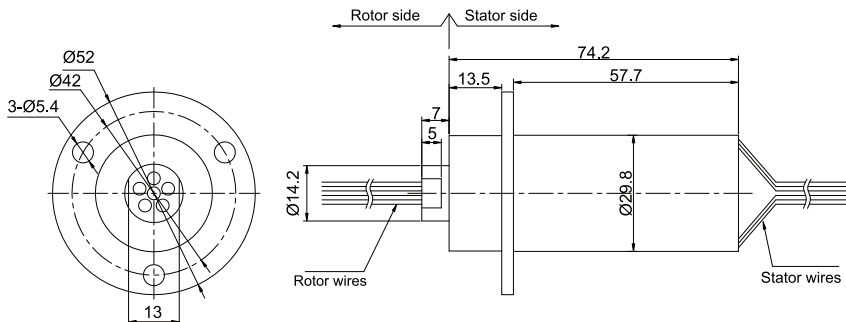
MW1211-IP65 Dimensions



MW1330-IP65 Dimensions



MW1630-IP65 Dimensions



Specification

| Mechanical Data | | Electrical Data | |
|---------------------|-------------------------|-----------------------|-------------------------------------|
| Parameter | Value | Parameter | Value |
| Working Life | 10 Million revs | | Power |
| Rotating Speed | 150RPM | Rated Voltage | 0~380VAC/VDC |
| Working temperature | -30°C~80°C | Insulation Resistance | ≥1000MΩ/500VDC |
| Operating Humidity | 0~85% RH | Lead Wires | 10A=AWG#17; 20A=AWG#14; 30A=AWG#12; |
| Contact Material | precious metal | Lead Length | Standard 300mm(adjustable) |
| Housing Materia | PBT | Insulating Strength | 500VAC@50Hz, 60s |
| Torque | 0.1N.m; +0.03N.m/6rings | Electrical Noise | <0.01Ω |
| Protection Grade | IP51 | | |

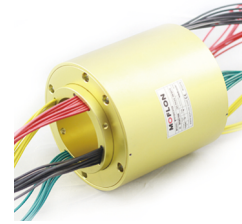
Lead Wires Color Code

| Ring | 1 | 2 | 3 | 4 | 5 | 6 |
|-------|-----|-----|-----|-----|-----|-----|
| Color | BLK | RED | YEL | GRN | BLU | WHT |

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

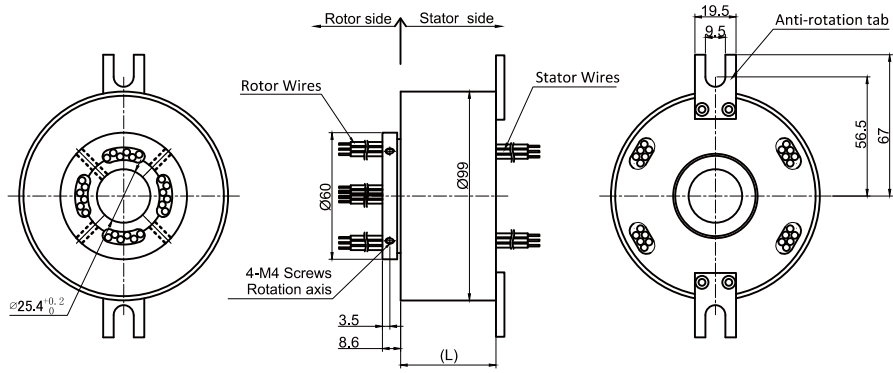
MW2025 series slip rings

MW2025 series is large current slip ring with bore diameter 25.4mm. The through bore slip ring can be used for shaft installation or through gas-liquid catheter. This series slip ring can be with rated current 20A/30A/50A to over 100A.



MW2025

MW Series Large Current Slip Rings



Part# Explanation

MW 2025 - P02100-S06 - VC

MW: Large current slip rings

2 : through bore with cable exit
025 : bore size 25.4mm

P02100 : P-power ring, 02-2 rings (wire),
100-rated current 100A

S06 : S-signal ring (or 5A) 06-6 rings (wire)

Product quality level
VC-common quality version
VD-industrial quality version
Default=VC

Part# List

| MW2025 Series slip ring part# list | | | | | | | | | | |
|------------------------------------|-----|------|------|-------------|-------------------|-----|------|------|----------------------------|-------------|
| Part# | 50A | 100A | 150A | Length (mm) | Part# | 50A | 100A | 150A | Signal ring (Thermocouple) | Length (mm) |
| MW2025-P0160 | 1 | 0 | 0 | 45.2 | MW2025-P0160-S06 | 1 | 0 | 0 | 6 | 65.6 |
| MW2025-P01100 | 0 | 1 | 0 | 45.2 | MW2025-P01100-S06 | 0 | 1 | 0 | 6 | 65.6 |
| MW2025-P01150 | 0 | 0 | 1 | 65.6 | MW2025-P01150-S06 | 0 | 0 | 1 | 6 | 86 |
| MW2025-P0260 | 2 | 0 | 0 | 65.6 | MW2025-P0260-S06 | 2 | 0 | 0 | 6 | 86 |
| MW2025-P02100 | 0 | 2 | 0 | 65.6 | MW2025-P02100-S06 | 0 | 2 | 0 | 6 | 86 |
| MW2025-P02150 | 0 | 0 | 2 | 86 | MW2025-P02150-S06 | 0 | 0 | 2 | 6 | 106.4 |
| MW2025-P0360 | 3 | 0 | 0 | 65.6 | MW2025-P0360-S06 | 0 | 0 | 0 | 6 | 86 |
| MW2025-P03100 | 0 | 3 | 0 | 86 | MW2025-P03100-S06 | 0 | 3 | 0 | 6 | 106.4 |
| MW2025-P03150 | 0 | 0 | 3 | 126.8 | MW2025-P03150-S06 | 0 | 0 | 3 | 6 | 150.2 |
| MW2025-P0460 | 4 | 0 | 0 | 86 | MW2025-P0460-S06 | 4 | 0 | 0 | 6 | 106.4 |
| MW2025-P04100 | 0 | 4 | 0 | 106.4 | MW2025-P04100-S06 | 0 | 4 | 0 | 6 | 126.8 |
| MW2025-P04150 | 0 | 0 | 4 | 150.2 | MW2025-P0860 | 8 | 0 | 0 | 0 | 150.2 |
| MW2025-P0660 | 6 | 0 | 0 | 106.4 | MW2025-P0660-S06 | 6 | 0 | 0 | 6 | 126.8 |

Note: 1. N channels 60A rings parallel can be used as 1 channel N * 60A current. For example: 2 rings 60A parallel could be used as 1 wires 120A
2. Optional for adding signal wire, thermocouple signal wire and high temperature resistance, it can be customized on customer's request. Please contact customer service for more information.

Product Quality Level Table

| Products Level Code | Max Rotating Speed | Working Life | Contact Material |
|---------------------|--------------------|-----------------|------------------|
| VC | 100RPM | 10 Million Revs | Precious Metal |
| VD | 200RPM | 30 Million Revs | Gold-plated |

Specification

| Electrical Data | | |
|-----------------------|---|------------------------------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~690VAC/VDC | 0~240VAC/VDC |
| Insulation Resistance | ≥500MΩ/1000VDC | ≥500MΩ/500VDC |
| Lead Wires | AWG12#/AWG8# /AWG12#parallel/AWG8parallel | AWG22#Teflon / Type K Thermocouple |
| Lead Length | Standard 300mm | |
| Dielectric 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 | aluminium alloy / PBT | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |

Options for custom slip ring

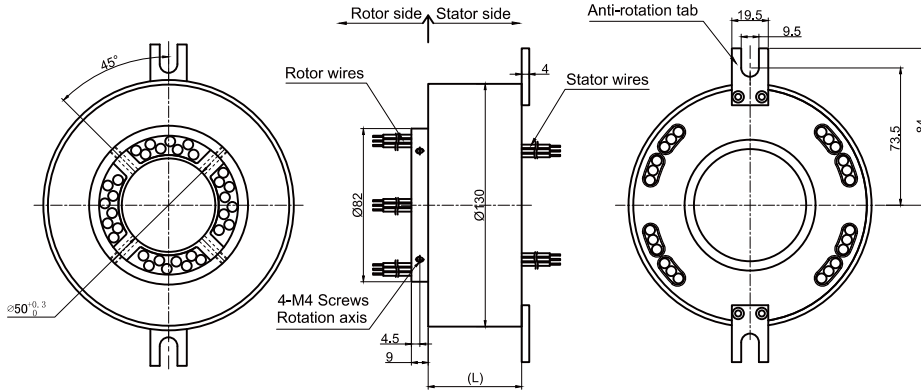
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① 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

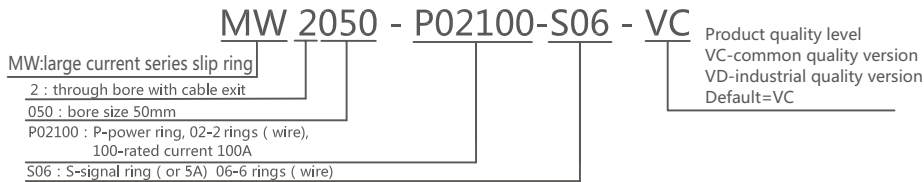
Technical support: technical@moflon.com

MW2050 series slip rings

MW2050 series is large current slip ring with bore diameter 50mm. The through bore slip ring can be used for shaft installation or through gas-liquid catheter. This series slip ring can be with rated current 20A/30A/50A to over 100A.



Part# Explanation



Part# List

| Mw2050 Series slip ring part# list | | | | | | | | | | | | | | | | |
|------------------------------------|-----|------|------|------|------|------|-------------|-------------------|-----|------|------|------|------|------|----------------------------|-------------|
| Part# | 50A | 100A | 150A | 200A | 300A | 500A | length (mm) | Part# | 50A | 100A | 150A | 200A | 300A | 500A | Signal ring (Thermocouple) | Length (mm) |
| MW2050-P0160 | 1 | 0 | 0 | 0 | 0 | 0 | 59.6 | MW2050-P0160-S06 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 82.4 |
| MW2050-P01100 | 0 | 1 | 0 | 0 | 0 | 0 | 59.6 | MW2050-P01100-S06 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 82.4 |
| MW2050-P01150 | 0 | 0 | 1 | 0 | 0 | 0 | 82.4 | MW2050-P01150-S06 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 105.2 |
| MW2050-P01200 | 0 | 0 | 0 | 1 | 0 | 0 | 82.4 | MW2050-P01200-S06 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 105.2 |
| MW2050-P01300 | 0 | 0 | 0 | 0 | 1 | 0 | 105.2 | MW2050-P01300-S06 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 128 |
| MW2050-P01500 | 0 | 0 | 0 | 0 | 0 | 1 | 155.8 | MW2050-P01500-S06 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 178.6 |
| MW2050-P0260 | 2 | 0 | 0 | 0 | 0 | 0 | 82.4 | MW2050-P0260-S06 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 105.2 |
| MW2050-P02100 | 0 | 2 | 0 | 0 | 0 | 0 | 82.4 | MW2050-P02100-S06 | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 105.2 |
| MW2050-P02150 | 0 | 0 | 2 | 0 | 0 | 0 | 105.2 | MW2050-P02150-S06 | 0 | 0 | 2 | 0 | 0 | 0 | 6 | 128 |
| MW2050-P02200 | 0 | 0 | 0 | 2 | 0 | 0 | 128 | MW2050-P02200S-06 | 0 | 0 | 0 | 2 | 0 | 0 | 6 | 155.8 |
| MW2050-P02300 | 0 | 0 | 0 | 0 | 2 | 0 | 178.6 | MW2050-P02300-S06 | 0 | 0 | 0 | 0 | 2 | 0 | 6 | 224.2 |
| MW2050-P02500 | 0 | 0 | 0 | 0 | 0 | 2 | 274.8 | MW2050-P02500-S06 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 320.4 |
| MW2050-P0360 | 3 | 0 | 0 | 0 | 0 | 0 | 82.4 | MW2050-P0360-S06 | 3 | 0 | 0 | 0 | 0 | 0 | 6 | 105.2 |
| MW2050-P03100 | 0 | 3 | 0 | 0 | 0 | 0 | 105.2 | MW2050-P03100-S06 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 128 |
| MW2050-P03150 | 0 | 0 | 3 | 0 | 0 | 0 | 155.8 | MW2050-P03150-S06 | 0 | 0 | 3 | 0 | 0 | 0 | 6 | 178.6 |
| MW2050-P03200 | 0 | 0 | 0 | 3 | 0 | 0 | 178.6 | MW2050-P03200-S06 | 0 | 0 | 0 | 3 | 0 | 0 | 6 | 224.2 |
| MW2050-P03300 | 0 | 0 | 0 | 0 | 3 | 0 | 274.8 | MW2050-P03300-S06 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 274.8 |
| MW2050-P03500 | 0 | 0 | 0 | 0 | 0 | 3 | 414.6 | MW2050-P03500-S06 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 414.6 |
| MW2050-P0460 | 4 | 0 | 0 | 0 | 0 | 0 | 105.2 | MW2050-P0460-S06 | 4 | 0 | 0 | 0 | 0 | 0 | 6 | 128 |
| MW2050-P04100 | 0 | 4 | 0 | 0 | 0 | 0 | 128 | MW2050-P04100-S06 | 0 | 4 | 0 | 0 | 0 | 0 | 6 | 155.8 |
| MW2050-P04150 | 0 | 0 | 4 | 0 | 0 | 0 | 178.6 | MW2050-P04150-S06 | 0 | 0 | 4 | 0 | 0 | 0 | 6 | 224.2 |
| MW2050-P04200 | 0 | 0 | 0 | 4 | 0 | 0 | 224.2 | MW2050-P04200-S06 | 0 | 0 | 0 | 4 | 0 | 0 | 6 | 274.8 |
| MW2050-P04300 | 0 | 0 | 0 | 0 | 4 | 0 | 320.4 | MW2050-P04300-S06 | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 369 |
| MW2050-P0660 | 6 | 0 | 0 | 0 | 0 | 0 | 128 | MW2050-P0660-S06 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 155.8 |

| | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|-------|-------------------|---|---|---|---|---|---|---|-------|
| MW2050-P06100 | 0 | 6 | 0 | 0 | 0 | 0 | 178.6 | MW2050-P06100-S06 | 0 | 6 | 0 | 0 | 0 | 0 | 6 | 224.2 |
| MW2050-P06150 | 0 | 0 | 6 | 0 | 0 | 0 | 274.8 | MW2050-P06150-S06 | 0 | 0 | 6 | 0 | 0 | 0 | 6 | 274.8 |
| MW2050-P06200 | 0 | 0 | 0 | 6 | 0 | 0 | 320.4 | MW2050-P06200-S06 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 369 |

Note: 1. N channels 60A rings parallel can be used as 1 channel N * 60A current. For example: 2 rings 60A parallel could be used as 1 wire 120A
 2. Optional for adding signal wire, thermocouple signal wire and high temperature resistance, it can be customized on customer's request.
 Please contact customer service for more information.

Specification

| Electrical Data | | |
|-----------------------|---|------------------------------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~690VAC/VDC | 0~240VAC/VDC |
| Insulation Resistance | ≥1000MΩ/1000VDC | ≥500MΩ/500VDC |
| Lead Wires | AWG12#/AWG8# /AWG12#parallel/AWG8parallel | AWG22#Teflon / Type K Thermocouple |
| Lead Length | Standard 300mm | |
| Dielectric 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 | aluminium alloy / PBT | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |

Product Quality Level Table

| Products Level Code | Max Rotating Speed | Working Life | Contact Material |
|---------------------|--------------------|-----------------|------------------|
| VC | 100RPM | 10 Million Revs | Precious Metal |
| VD | 200RPM | 30 Million Revs | Gold-plated |

Options for custom slip ring

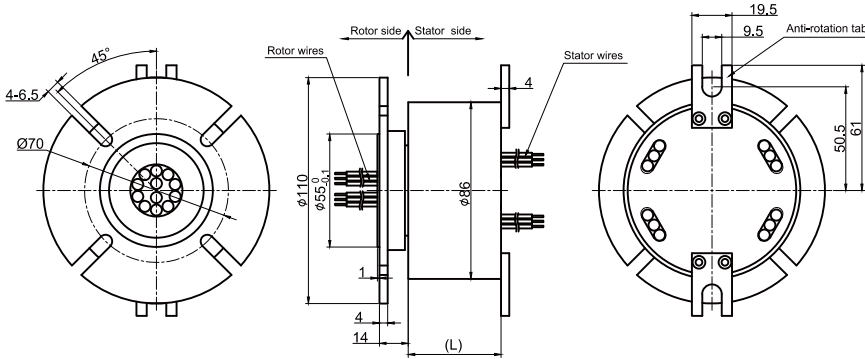
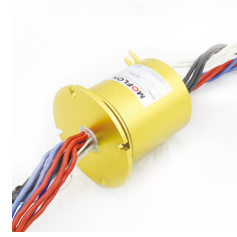
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① 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

MW3086 series slip rings

MW3086 series is large current slip ring with OD (outer diameter) 86mm and rotor flange installation, Solid style without through bore, This series slip ring can be with rated current 20A/30A/50A to over 100A.



Part# Explanation

MW 3086 - P02100-S06 - VC

MW:large current series slip ring

3 : solid slip ring with cable exit

086 : outside diameter 86mm

P02100 : P-power ring, 02-2 rings (wire),
100-rated current 100A

S06 : S-signal ring (or 5A) 06-6 rings (wire)

Product quality level
VC-common quality version
VD-industrial quality version
Default=VC

Part# List

| MW3086 Series slip ring part# list | | | | | | | | | | |
|------------------------------------|-----|------|------|-------------|-------------------|-----|------|------|----------------------------|-------------|
| Part# | 50A | 100A | 150A | length (mm) | Part# | 50A | 100A | 150A | Signal ring (Thermocouple) | length (mm) |
| MW3086-P0160 | 1 | 0 | 0 | 55.6 | MW3086-P0160-S06 | 1 | 0 | 0 | 6 | 78.4 |
| MW3086-P01100 | 0 | 1 | 0 | 55.6 | MW3086-P01100-S06 | 0 | 1 | 0 | 6 | 78.4 |
| MW3086-P01150 | 0 | 0 | 1 | 78.4 | MW3086-P01150-S06 | 0 | 0 | 1 | 6 | 101.2 |
| MW3086-P0260 | 2 | 0 | 0 | 78.4 | MW3086-P0260-S06 | 2 | 0 | 0 | 6 | 101.2 |
| MW3086-P02100 | 0 | 2 | 0 | 78.4 | MW3086-P02100-S06 | 0 | 2 | 0 | 6 | 101.2 |
| MW3086-P02150 | 0 | 0 | 2 | 101.2 | MW3086-P02150-S06 | 0 | 0 | 2 | 6 | 124 |
| MW3086-P0360 | 3 | 0 | 0 | 78.4 | MW3086-P0360-S06 | 3 | 0 | 0 | 6 | 101.2 |
| MW3086-P03100 | 0 | 3 | 0 | 101.2 | MW3086-P03100-S06 | 0 | 3 | 0 | 6 | 124 |
| MW3086-P03150 | 0 | 0 | 3 | 151.8 | MW3086-P03150-S06 | 0 | 0 | 3 | 6 | 174.6 |
| MW3086-P0460 | 4 | 0 | 0 | 101.2 | MW3086-P0460-S06 | 4 | 0 | 0 | 6 | 124 |
| MW3086-P04100 | 0 | 4 | 0 | 124 | MW3086-P04100-S06 | 0 | 4 | 0 | 6 | 151.8 |
| MW3086-P04150 | 0 | 0 | 4 | 174.6 | MW3086-P04150-S06 | 0 | 0 | 4 | 6 | 220.2 |
| MW3086-P0660 | 6 | 0 | 0 | 124 | MW3086-P0660-S06 | 6 | 0 | 0 | 6 | 151.8 |

Note: 1. N channels 60A rings parallel can be used as 1 channel N * 60A current. For example: 2 rings 60A parallel could be used as 1 wires 120A

2. Optional for adding signal wire, thermocouple signal wire and high temperature resistance, it can be customized on customer's request.

Please contact customer service for more information.

Specification

| Electrical Data | | |
|-----------------------|---|------------------------------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~690VAC/VDC | 0~240VAC/VDC |
| Insulation Resistance | ≥500MΩ/1000VDC | ≥500MΩ/500VDC |
| Lead Wires | AWG12#/AWG8# /AWG12#parallel/AWG8parallel | AWG22#Teflon / Type K Thermocouple |
| Lead Length | Standard 300mm | |
| Dielectric 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 | aluminium alloy | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |

Product Quality Level Table

| Products Level Code | Max Rotating Speed | Working Life | Contact Material |
|---------------------|--------------------|-----------------|------------------|
| VC | 100RPM | 10 Million Revs | Precious Metal |
| VD | 200RPM | 30 Million Revs | Gold-plated |

Options for custom slip ring

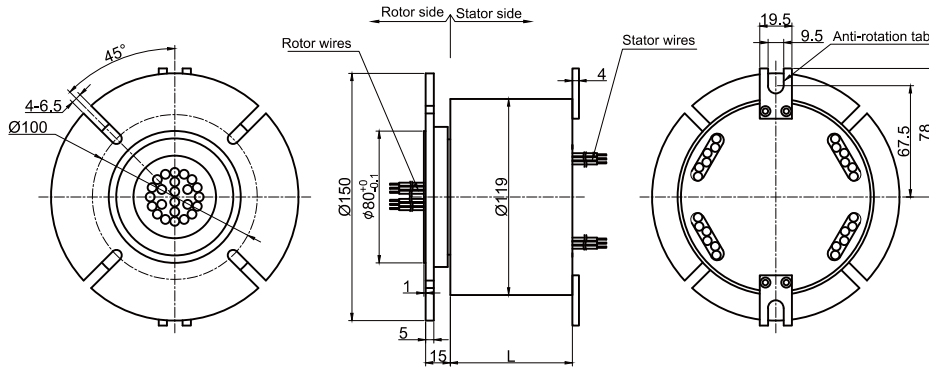
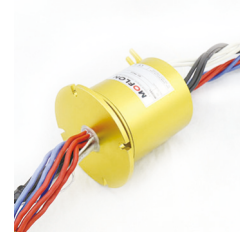
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① 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

MW3119 series slip rings

MW3119 series is large current slip ring with OD (outer diameter) 119mm and rotor flange installation, Solid style without through bore, This series slip ring can be with rated current 20A/30A/50A to over 100A.



Part# Explanation

MW 3119 - P02100-S06 - VC

MW:large current series slip ring

3 : solid slip ring with cable exit

119 : outside diameter 119mm

P02100 : P-power ring, 02-2 rings (wire),
100-rated current 100A

S06 : S-signal ring (or 5A) 06-6 rings (wire)

Product quality level
VC-common quality version
VD-industrial quality version
Default=VC

Part# List

MW3119 Series slip ring part# list

| Part# | 50A | 100A | 150A | 200A | 300A | 500A | length (mm) | Part# | 50A | 100A | 150A | 200A | 300A | 500A | Signal ring (Thermocouple) | Length (mm) |
|---------------|-----|------|------|------|------|------|-------------|-------------------|-----|------|------|------|------|------|----------------------------|-------------|
| MW3119-P0160 | 1 | 0 | 0 | 0 | 0 | 0 | 45.2 | MW3119-P0160-S06 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 65.6 |
| MW3119-P01100 | 0 | 1 | 0 | 0 | 0 | 0 | 45.2 | MW3119-P01100-S06 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 65.6 |
| MW3119-P01150 | 0 | 0 | 1 | 0 | 0 | 0 | 65.6 | MW3119-P01150-S06 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 86 |
| MW3119-P01200 | 0 | 0 | 0 | 1 | 0 | 0 | 65.6 | MW3119-P01200-S06 | 1 | 0 | 0 | 1 | 0 | 0 | 6 | 86 |
| MW3119-P01300 | 0 | 0 | 0 | 0 | 1 | 0 | 86 | MW3119-P01300-S06 | 0 | 1 | 0 | 0 | 1 | 0 | 6 | 126.8 |
| MW3119-P01500 | 0 | 0 | 0 | 0 | 0 | 1 | 126.8 | MW3119-P01500-S06 | 0 | 0 | 1 | 0 | 0 | 1 | 6 | 150.2 |
| MW3119-P0260 | 2 | 0 | 0 | 0 | 0 | 0 | 65.6 | MW3119-P0260-S06 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 86 |
| MW3119-P02100 | 0 | 2 | 0 | 0 | 0 | 0 | 65.6 | MW3119-P02100-S06 | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 86 |
| MW3119-P02150 | 0 | 0 | 2 | 0 | 0 | 0 | 86 | MW3119-P02150-S06 | 0 | 0 | 2 | 0 | 0 | 0 | 6 | 106.4 |
| MW3119-P02200 | 0 | 0 | 0 | 2 | 0 | 0 | 106.4 | MW3119-P02200-S06 | 0 | 0 | 0 | 2 | 0 | 0 | 6 | 126.8 |
| MW3119-P02300 | 0 | 0 | 0 | 0 | 2 | 0 | 150.2 | MW3119-P02300-S06 | 0 | 0 | 0 | 0 | 2 | 0 | 6 | 170.6 |
| MW3119-P02500 | 0 | 0 | 0 | 0 | 0 | 2 | 270.8 | MW3119-P02500-S06 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 316.4 |
| MW3119-P0360 | 3 | 0 | 0 | 0 | 0 | 0 | 65.6 | MW3119-P0360-S06 | 3 | 0 | 0 | 0 | 0 | 0 | 6 | 86 |
| MW3119-P03100 | 0 | 3 | 0 | 0 | 0 | 0 | 86 | MW3119-P03100-S06 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 106.4 |
| MW3119-P03150 | 0 | 0 | 3 | 0 | 0 | 0 | 126.8 | MW3119-P03150-S06 | 0 | 0 | 3 | 0 | 0 | 0 | 6 | 150.2 |
| MW3119-P03200 | 0 | 0 | 0 | 3 | 0 | 0 | 150.2 | MW3119-P03200-S06 | 0 | 0 | 0 | 3 | 0 | 0 | 6 | 170.6 |
| MW3119-P03300 | 0 | 0 | 0 | 0 | 3 | 0 | 270.8 | MW3119-P03300-S06 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 270.8 |
| MW3119-P03500 | 0 | 0 | 0 | 0 | 0 | 3 | 410.6 | MW3119-P03500-S06 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 410.6 |
| MW3119-P0460 | 4 | 0 | 0 | 0 | 0 | 0 | 86 | MW3119-P0460-S06 | 4 | 0 | 0 | 0 | 0 | 0 | 6 | 106.4 |
| MW3119-P04100 | 0 | 4 | 0 | 0 | 0 | 0 | 106.4 | MW3119-P04100-S06 | 0 | 4 | 0 | 0 | 0 | 0 | 6 | 126.8 |
| MW3119-P04150 | 0 | 0 | 4 | 0 | 0 | 0 | 150.2 | MW3119-P04150-S06 | 0 | 0 | 4 | 0 | 0 | 0 | 6 | 193.2 |
| MW3119-P04200 | 0 | 4 | 0 | 4 | 0 | 0 | 193.2 | MW3119-P04200-S06 | 0 | 4 | 0 | 4 | 0 | 0 | 6 | 270.8 |
| MW3119-P04300 | 0 | 0 | 0 | 0 | 4 | 0 | 316.4 | MW3119-P04300-S06 | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 365 |
| MW3119-P0660 | 6 | 0 | 0 | 0 | 0 | 0 | 106.4 | MW3119-P0660-S06 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 126.8 |
| MW3119-P06100 | 0 | 6 | 0 | 0 | 0 | 0 | 150.2 | MW3119-P06100-S06 | 0 | 6 | 0 | 0 | 0 | 0 | 6 | 170.6 |
| MW3119-P06150 | 0 | 0 | 6 | 0 | 0 | 0 | 270.8 | MW3119-P06150-S06 | 0 | 0 | 6 | 0 | 0 | 0 | 6 | 270.8 |
| MW3119-P06200 | 0 | 0 | 0 | 6 | 0 | 0 | 316.4 | MW3119-P06200-S06 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 365 |

Note: 1. N channels 60A rings parallel can be used as 1 channel N * 60A current. For example: 2 rings 60A parallel could be used as 1 wires 120A
 2. Optional for adding signal wire, thermocouple signal wire and high temperature resistance, it can be customized on customer's request. Please contact customer service for more information.

Specification

| Electrical Data | | |
|-----------------------|---|------------------------------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~690VAC/VDC | 0~240VAC/VDC |
| Insulation Resistance | ≥1000MΩ/1000VDC | ≥500MΩ/500VDC |
| Lead Wires | AWG12#/AWG8# /AWG12#parallel/AWG8parallel | AWG22#Teflon / Type K Thermocouple |
| Lead Length | Standard 300mm | |
| Dielectric 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 | aluminium alloy / PBT | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |

Product Quality Level Table

| Products Level Code | Max Rotating Speed | Working Life | Contact Material |
|---------------------|--------------------|-----------------|------------------|
| VC | 100RPM | 10 Million Revs | Precious Metal |
| VD | 200RPM | 30 Million Revs | Gold-plated |

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 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

MW4032 series slip rings

MW4032 series is inserting large current slip ring without mercury. Except conventional advantages, it has advantages of convenient connection and stronger current-carrying capability. It can replace the conventional mercury slip ring. This series slip ring is especially designed for industrial manufacturing industry, which can fully meet national and EU environmental standards, in line with international environment requirements. The conducting ring adopts precious metal with plating processing; the electrical brush adopts precious alloy wire; the connector adopts standard flat connector which is convenient for connection.



Part# Explanation

MW 4032 - P0230-P0208

MW: large current series slip ring

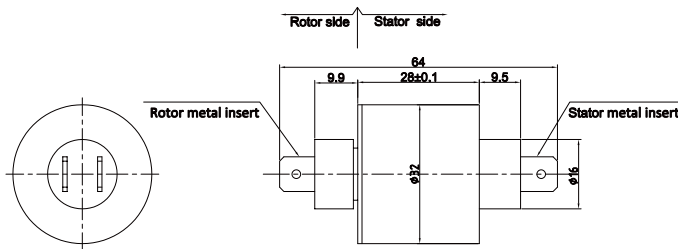
4 : exit with pins

032: outer diameter 32mm

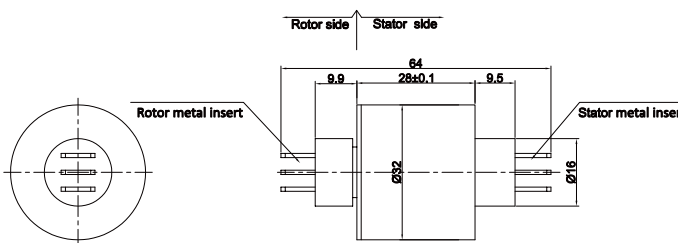
P0208 : 2 rings , 8A/ring

P0230 : 2 rings , 30A/ring

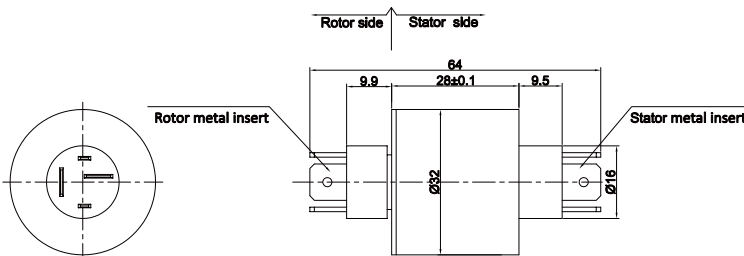
MW4032-P0230 Dimensions



MW4032-P0330 Dimensions



MW4032-P0230-P0208 Dimensions



Part# List

| MW4032 Series (Insertion) slip ring part# list | | | | |
|--|-----|--------------|-------------|----------------------|
| Part# | 30A | Signal or 8A | Length (mm) | Remarks |
| MW4032-P0230 | 2 | 0 | 47.4 | Can replace A2H,M230 |
| MW4032-P0330 | 3 | 0 | 47.4 | Can replace A3H,M330 |
| MW4032-P0230-P0208 | 2 | 2 | 47.4 | Can replace A4H,M430 |

Note: N channels 30A rings parallel can be used as 1 channel N * 30A current. For example: 2 rings 30A parallel could be used as 1 wires 60A

Specification

| Electrical Data | | |
|-----------------------|-------------------------|----------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~200VAC/VDC | 0~220VAC/VDC |
| Insulation Resistance | ≥500MQ/300VDC | ≥500MQ/300VDC |
| Lead Wires | Exit with pins | Exit with pins |
| Dielectric Strength | 500VAC@50Hz, 60s | |
| Electrical Noise | <0.01Ω | |
| Mechanical Data | | |
| Parameter | Value | |
| Working Life | 20 Million revs | |
| Rotating Speed | 250RPM | |
| Working Temperature | -30°C~80°C | |
| Operating Humidity | 0~85% RH | |
| Contact Material | Gold-plated | |
| Housing Materia | aluminium alloy | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |

MW4045 series slip rings

MW4045 series is inserting large current slip ring without mercury. Except conventional advantages, it has advantages of convenient connection and stronger current-carrying capability. It can replace the conventional mercury slip ring. This series slip ring is especially designed for industrial manufacturing industry, which can fully meet national and EU environmental standards, in line with international environment requirements. The conducting ring adopts precious metal with plating processing; the electrical brush adopts precious alloy wire; the connector adopts standard flat connector which is convenient for connection.



Part# Explanation

MW 4045 - P0230-P0208

MW:large current series slip ring

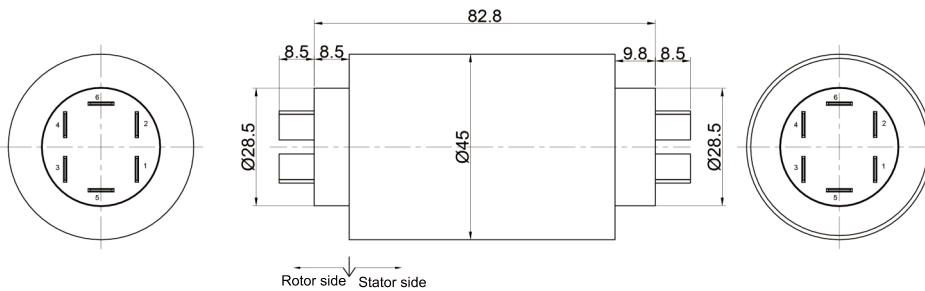
4 : exit with pins

045: outer diameter 45mm

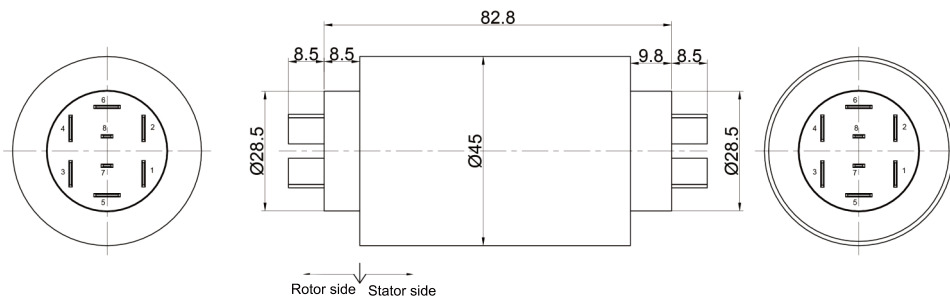
P0208 : 2 rings , 8A/ring

P0230 : 2 rings , 30A/ring

MW4045-P0430-P0208 Dimensions



MW4045-P0630-P0208 Dimensions



Specification

| Mechanical Data | | |
|-----------------------|-------------------------|----------------|
| Parameter | Value | |
| Working Life | 20 Million revs | |
| Rotating Speed | 250RPM | |
| Working Temperature | -30°C~80°C | |
| Operating Humidity | 0~85% RH | |
| Contact Material | Gold-plated | |
| Housing Materia | aluminium alloy | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |
| Electrical Data | | |
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~440VAC / VDC | 0~440VAC/VDC |
| Insulation Resistance | ≥500MΩ/500VDC | ≥500MΩ/500VDC |
| Lead Wires | Exit with pins | Exit with pins |
| Dielectric Strength | 500VAC@50Hz, 60s | |
| Electrical Noise | <0.01Ω | |

MW5045 series slip rings

MW5045 series is terminal large current slip ring with signal wire; the current can be 100A/150A/250A/350A/500A/1000A. Advantages: small size, light weight, large current-carrying. This series slip ring is suitable for the occasion where single big current is needed, such as welding, electroplating industry, etc.



Part# Explanation

MW 5 045 - P01100

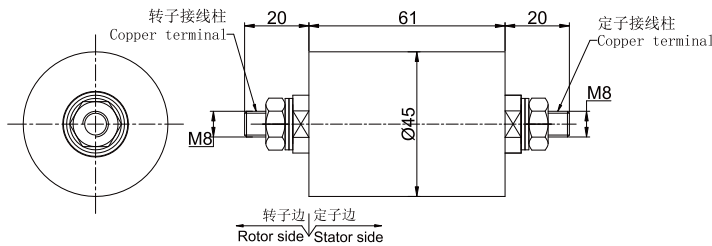
MW: Large current series slip ring

5: Exit with terminals

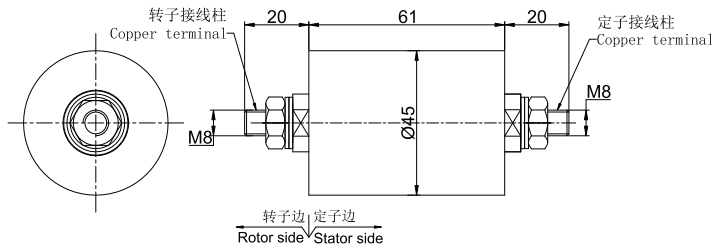
045 : Outer diameter 45

P01100:P-power ring01-1ring 50-50A/ring

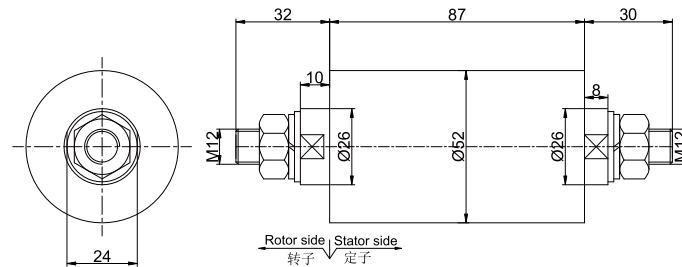
MW5045-P01100 Dimensions



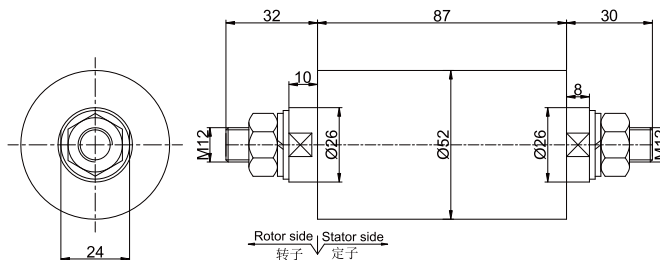
MW5045-P01150 Dimensions



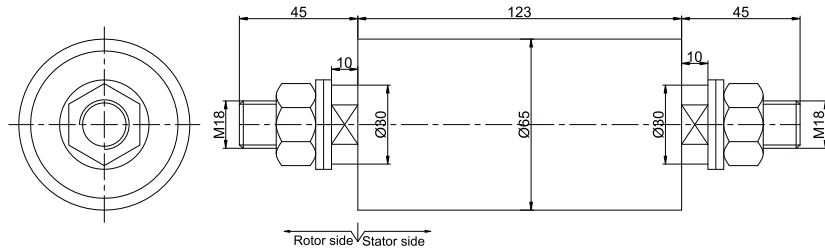
MW5045-P01200 Dimensions



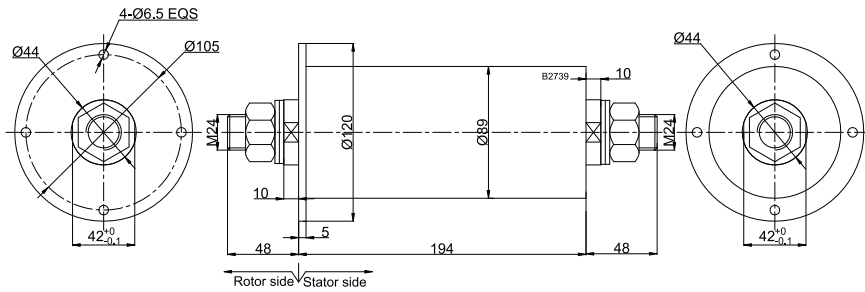
MW5045-P01250 Dimensions



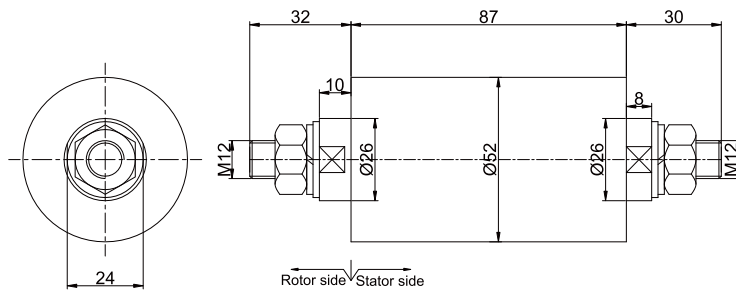
MW5045-P01500 dimension



MW5045-P011000 dimension



MW5045-P011350 dimension



Part# List

| MW5045 power slip ring(single way) series part list | | | | | | | |
|---|-----|------|------|------|------|------|-------|
| Part# | 50A | 100A | 150A | 200A | 250A | 500A | 1000A |
| MW5045-P0150 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| MW5045-P01100 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| MW5045-P01150 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| MW5045-P01200 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| MW5045-P01250 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| MW5045-P01500 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| MW5045-P011000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

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) Current value can be customized, please contact customer service for more details.

Specification

| Mechanical Data | | Electrical Data | |
|---------------------|-------------------------|-----------------------|------------------|
| Parameter | Value | Parameter | Value |
| Working Life | 20 Million revs | | Power |
| Rotating Speed | 250RPM | Rated Voltage | 0~690VAC/VDC |
| Working Temperature | -30°C~80°C | Insulation Resistance | ≥1000MΩ/1000VDC |
| Operating Humidity | 0~85% RH | Lead Wires | terminal |
| Contact Material | precious metal | Dielectric Strength | 500VAC@50Hz, 60s |
| Housing Materia | aluminium alloy | Electrical Noise | <0.01Ω |
| Torque | 0.1N.m; +0.03N.m/6rings | | |
| Protection Grade | IP51 | | |

Options for custom slip ring

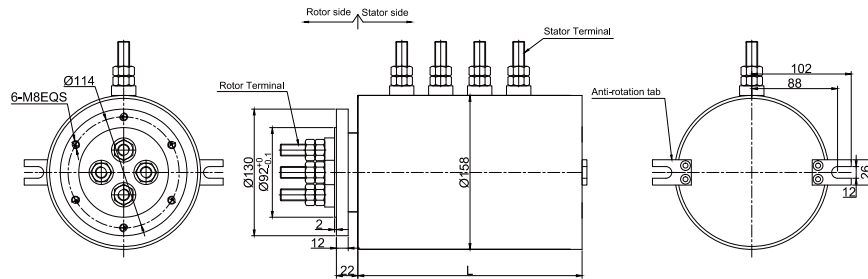
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① 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

MW5158 series slip rings

MW5158 is super 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 sensor signal or thermocouple signal. Our products adopt material imported from America. It has advantages of low contact resistance, slow temperature increase, which can meet the reliability requirements of military level.



Part# Explanation

MW 5158 - P02100

MW:large current series slip ring

5 : exit with terminals

158: outer diameter 158mm, mainly for the 2 rings ,3rings and 4 rings

P02100 : P-Power ring; 02-2 rings;100-100A/ ring

Part# List

| MW5158 Series (Terminals) power slip ring part# list | | | | | | | |
|--|-----|------|------|------|------|------|-------------|
| Part# | 50A | 100A | 150A | 200A | 300A | 500A | Length (mm) |
| MW5158-P01200 | 0 | 0 | 0 | 1 | 0 | 0 | 96 |
| MW5158-P01300 | 0 | 0 | 0 | 0 | 1 | 0 | 96 |
| MW5158-P01500 | 0 | 0 | 0 | 0 | 0 | 1 | 96 |
| MW5158-P02200 | 0 | 0 | 0 | 2 | 0 | 0 | 170 |
| MW5158-P02300 | 0 | 0 | 0 | 0 | 2 | 0 | 170 |
| MW5158-P02500 | 0 | 0 | 0 | 0 | 0 | 2 | 210 |
| MW5158-P03200 | 0 | 0 | 0 | 3 | 0 | 0 | 220 |
| MW5158-P03300 | 0 | 0 | 0 | 0 | 3 | 0 | 220 |
| MW5158-P03500 | 0 | 0 | 0 | 0 | 0 | 3 | 280 |
| MW5158-P04200 | 0 | 0 | 0 | 4 | 0 | 0 | 270 |
| MW5158-P04300 | 0 | 0 | 0 | 0 | 4 | 0 | 270 |
| MW5159-P04500 | 0 | 0 | 0 | 0 | 0 | 4 | 350 |

Note: 1. N channels 50A rings parallel can be used as 1 channel N * 50A current. For example: 2 rings 50A parallel could be used as 1 wire 100A

2. According to the customer's request, it can be customized to pass high current 1000A to 7500A. Please contact customer service for more details.

Specification

| Electrical Data | | |
|-----------------------|-------------------------|----------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~690VAC/VDC | 0~440VAC/VDC |
| Insulation Resistance | ≥1000MΩ/1000VDC | ≥1000MΩ/500VDC |
| Lead Wires | terminal | terminal |
| Lead Length | Standard 300mm | |
| Dielectric Strength | 500VAC@50Hz, 60s | |
| Electrical Noise | <0.01Ω | |
| Mechanical Data | | |
| Parameter | Value | |
| | | |
| Working Life | 20 Million revs | |
| Rotating Speed | 250RPM | |
| Working Temperature | -30°C~80°C | |
| Operating Humidity | 0~85% RH | |
| Contact Material | Gold-plated | |
| Housing Materia | aluminium alloy | |
| Torque | 0.1N.m; +0.03N.m/6rings | |
| Protection Grade | IP51 | |

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 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

MW-A series micro power high current slip ring



Main features of the product

The micro high current conductive slip ring is designed to pass through high-power high current with very small outer diameter, with a maximum current of 250A. It uses contacts with extremely low contact resistance and low heat generation. Before leaving the factory, each device has temperature rise experiments and high current impact experiments!

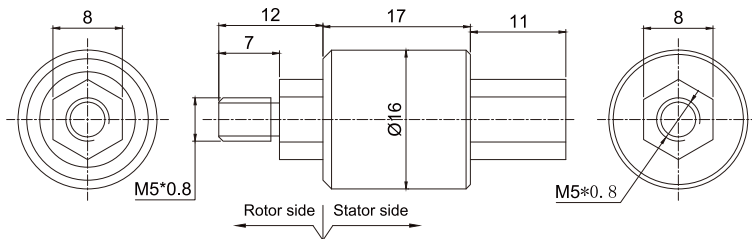
Model List

| Model | Inner pore (mm) | Outside diameter (mm) | Number of lines (loops) | Current per circuit (A) |
|----------|-----------------|-----------------------|-------------------------|-------------------------|
| MW-A1M2 | 0 | 16 | 1 | 20A |
| MW-A1M5 | 0 | 18 | 1 | 50A |
| MW-A1M12 | 0 | 21 | 1 | 120A |
| MW-A1H25 | 0 | 31.6 | 1 | 250A |

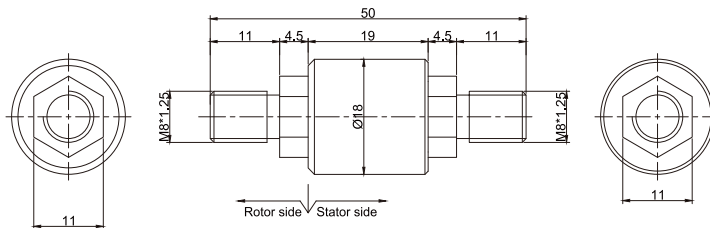
60% of our company's sales are customized products. Please consult customer service for special requirements and specifications

Model and appearance

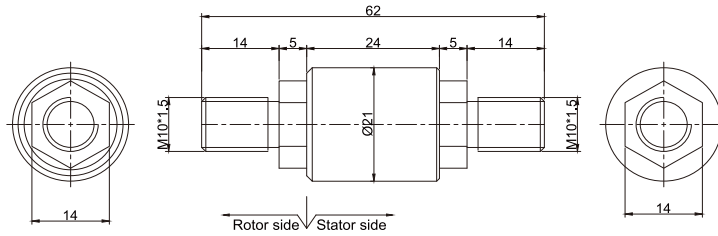
MW-A1M2 dimension



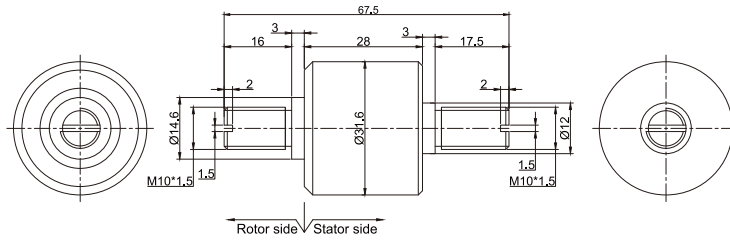
MW-A1M5 dimension



MW-A1M12 dimension



MW-A1H25 dimension

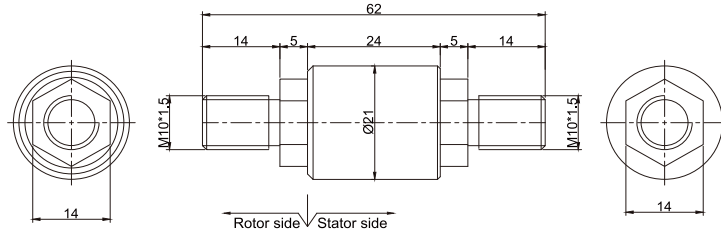


Specification

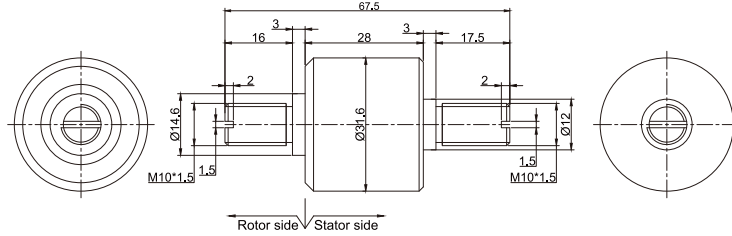
| Mechanical Data | | Electrical Data | |
|---------------------|-------------------------|-----------------------|------------------|
| Parameter | Value | Parameter | Value |
| Working Life | 20 Million revs | | Power |
| Rotating Speed | 250RPM | Rated Voltage | 0~690VAC/VDC |
| Working Temperature | -30°C~80°C | Insulation Resistance | ≥1000MΩ/1000VDC |
| Operating Humidity | 0~85% RH | Lead Wires | terminal |
| Contact Material | precious metal | Dielectric Strength | 500VAC@50Hz, 60s |
| Housing Material | aluminium alloy | Electrical Noise | <0.01Ω |
| Torque | 0.1N.m; +0.03N.m/6rings | | |
| Protection Grade | IP51 | | |

Options for custom slip ring

MW-A1M12 dimension



MW-A1H25 dimension



Specification

| Mechanical Data | | Electrical Data | |
|---------------------|-------------------------|-----------------------|------------------|
| Parameter | Value | Parameter | Value |
| Working Life | 20 Million revs | | Power |
| Rotating Speed | 250RPM | Rated Voltage | 0~690VAC/VDC |
| Working Temperature | -30°C~80°C | Insulation Resistance | ≥1000MΩ/1000VDC |
| Operating Humidity | 0~85% RH | Lead Wires | terminal |
| Contact Material | precious metal | Dielectric Strength | 500VAC@50Hz, 60s |
| Housing Materia | aluminium alloy | Electrical Noise | <0.01Ω |
| Torque | 0.1N.m; +0.03N.m/6rings | | |
| Protection Grade | IP51 | | |

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 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.)
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