

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	22~30	1~12	10A~40A	440
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	0~500A	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

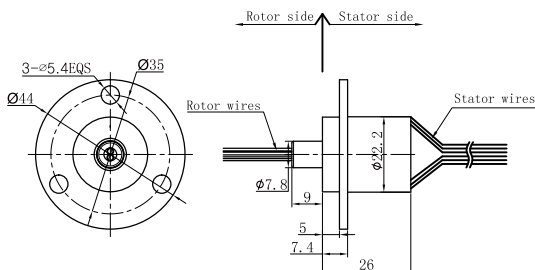
MW1000 Series Part# List									
Parts#	Ring	Rated current per ring (A)	OD (mm)	Length (mm)	Parts#	Ring	Rated current per ring (A)	OD (mm)	Length (mm)
MW1210	2	10A	22	26	MW1620	6	20A	30	65.7
MW1310	3	10A	22	33	MW1230	2	30A	22	47
MW1410	4	10A	22	43.6	MW1330	3	30A	22	47
MW1610	6	10A	30	65.7	MW1430	4	30A	30	65.7
MW1215	2	15A	22	47	MW1630	6	30A	30	65.7
MW1315	3	15A	22	47	MW1240	2	40A	30	65.7
MW1415	4	15A	30	65.7	MW1340	3	40A	30	65.7
MW1615	6	15A	30	65.7	MW1810	8	10A	30	78
MW1220	2	20A	22	47	MW1101	10	10A	30	78
MW1320	3	20A	22	47	MW1121	12	10A	30	78
MW1420	4	20A	30	65.7					

Protection Grade Parts# List			
Parts#	Protection Grade	Ring	Rated current per ring (A)
MW1211-IP65	IP65	12	10A
MW1211-IP68	IP68	12	10A
MW1330-IP65	IP65	3	30A
MW1330-IP68	IP68	3	30A
MW1630-IP65	IP65	6	30A
MW1630-IP68	IP68	6	30A

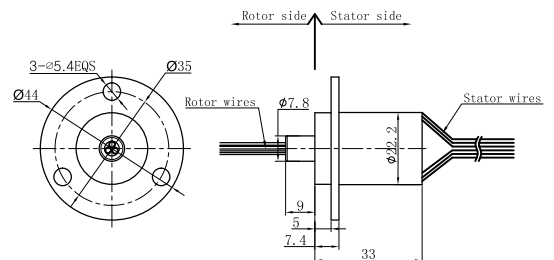
Note: 1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
2) Power rings can be used for signal rings on request.

Dimensions

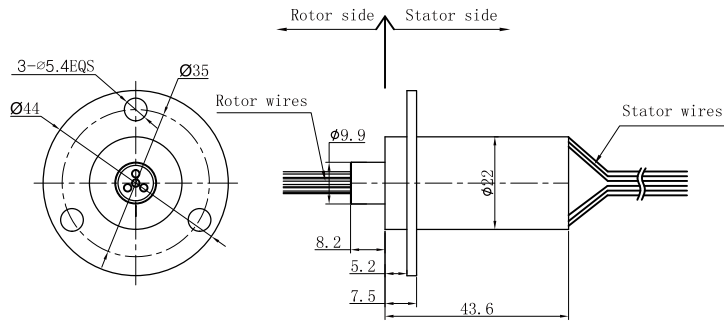
MW1210 Dimensions(2 rings, each ring 10A)



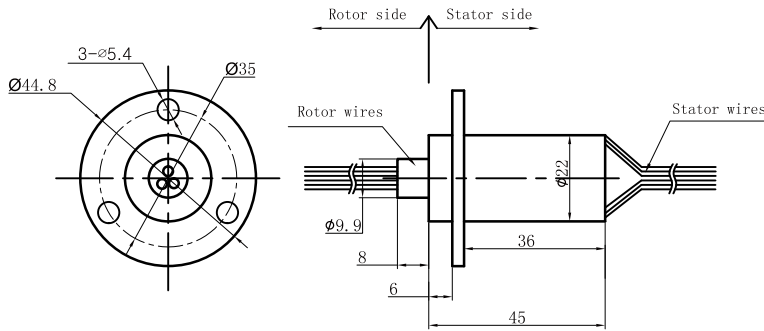
MW1310 Dimensions(3 rings, each ring 10A)



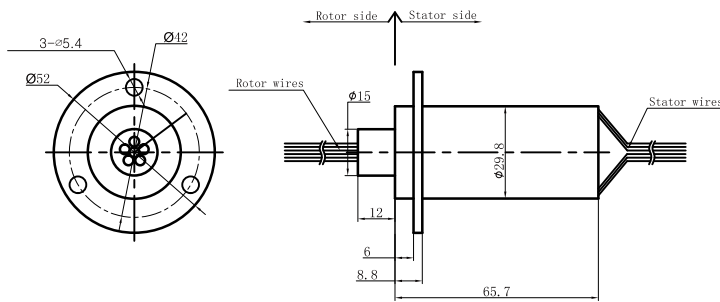
MW1410 Dimensions(4 rings, each ring 10A)



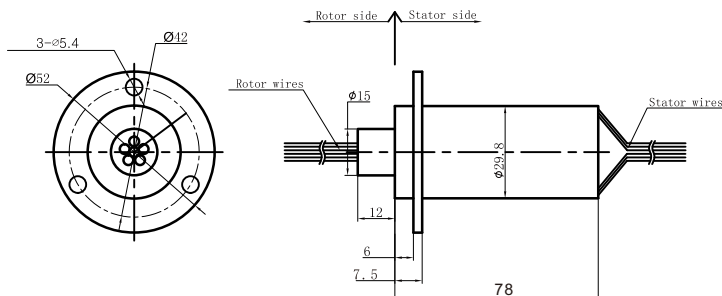
MW1215, MW1315, MW1220, MW1230 , MW1320 , MW1330 Dimensions



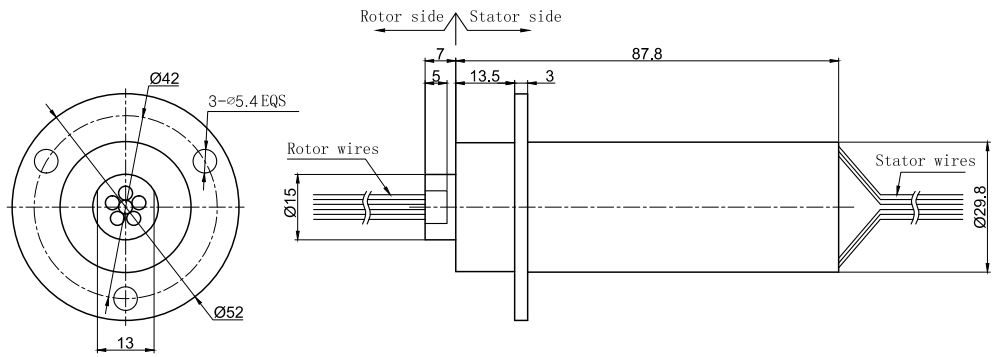
MW1415, MW1615, MW1610, MW1420, MW1430, MW1620, MW1630, MW1240, MW1340 Dimensions



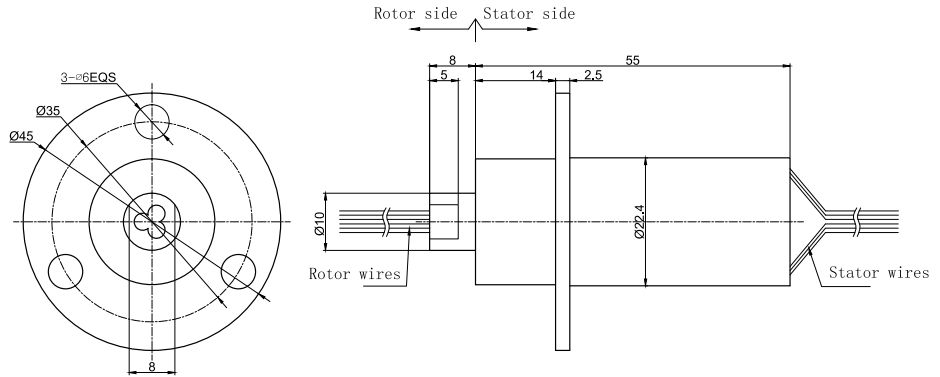
MW1810, MW1101, MW1121 Dimensions



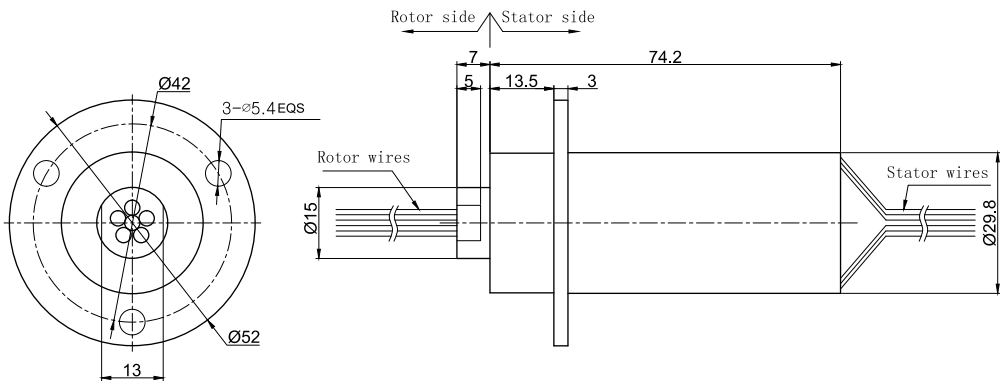
MW1211-IP65 Dimensions / MW1211-IP68 Dimensions



MW1330-IP65 Dimensions / MW1330-IP68 Dimensions



MW1630-IP65 Dimensions / MW1630-IP68 Dimensions



Specification

Mechanical Data		Electrical Data	
Parameter	Value	Parameter	Value
Working Life	10 Million revs		Power
Rotating Speed	150RPM	Rated Voltage	0~600VAC/VDC
Working temperature	-30°C~80°C	Insulation Resistance	≥1000MΩ/500VDC
Operating Humidity	0~85% RH	Lead Wires	10A=AWG#16;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		

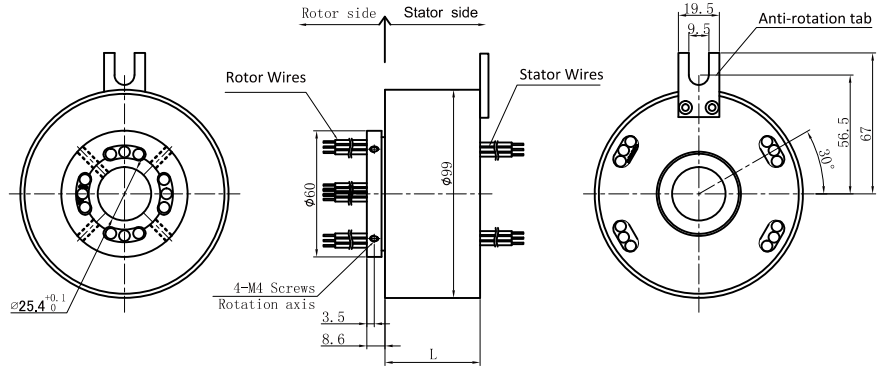
Lead Wires Color Code

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

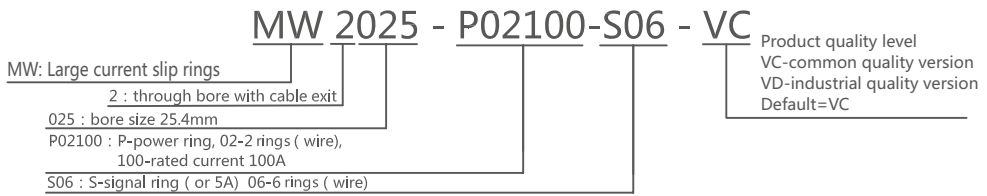
(6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe.)

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.



Part# Explanation



Part# List

MW2025 Series slip ring part# list										
Part#	60A	100A	150A	Length (mm)	Part#	60A	100A	150A	Signal ring (Thermocouple)	Length (mm)
MW2025-P0610	1	0	0	38.4	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	55.4	MW2025-P01150-S06	0	0	1	6	75.8
MW2025-P0260	2	0	0	52	MW2025-P0260-S06	2	0	0	6	70.4
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	3	0	0	6	86
MW2025-P03100	0	3	0	86	MW2025-P03100-S06	0	3	0	6	106.4
MW2025-P03150	0	0	3	116.6	MW2025-P03150-S06	0	0	3	6	137
MW2025-P0460	4	0	0	79.2	MW2025-P0460-S06	4	0	0	6	99.6
MW2025-P04100	0	4	0	106.4	MW2025-P04100-S06	0	4	0	6	126.8
MW2025-P04150	0	0	4	150.2	MW2025-P04150-S06	0	0	4	6	170.6
MW2025-P0660	6	0	0	106.4	MW2025-P0660-S06	6	0	0	6	129.8
MW2025-P06100	0	6	0	150.2	MW2025-P06100-S06	0	6	0	6	170.6

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
Rated Voltage	0~690VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC
Lead Wires	AWG8#=50A or AWG8 parallel
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

Lead Wires Color Code

Ring	1	2	3	4
Color	BLK	RED	YLW	GRN

Options for custom slip ring

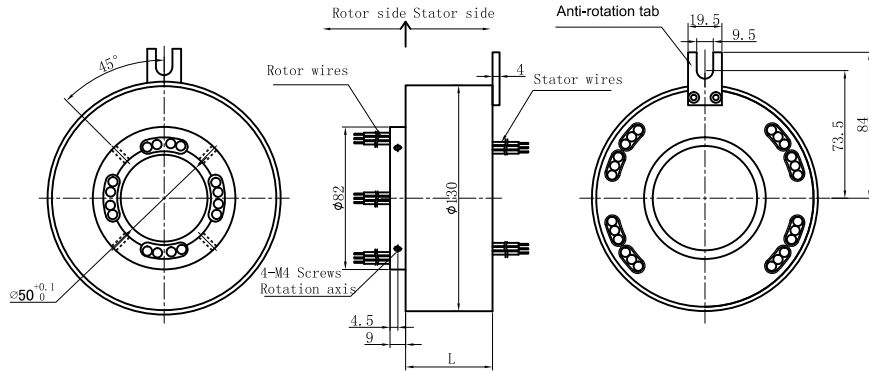
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- 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

MW 2050 - P02100-S06 - VC

MW:large current series slip ring
 2 : through bore with cable exit
 050 : bore size 50mm
 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

Mw2050 Series slip ring part# list																
Part#	60A	100A	150A	200A	300A	500A	length (mm)	part#	60A	100A	150A	200A	300A	500A	Signal ring (Thermocouple)	Length (mm)
MW2050-P0160	1	0	0	0	0	0	39.2	MW2050-P0160-S06	1	0	0	0	0	0	6	60.8
MW2050-P01100	0	1	0	0	0	0	50	MW2050-P01100-S06	0	1	0	0	0	0	6	71.6
MW2050-P01150	0	0	1	0	0	0	65	MW2050-P01150-S06	0	0	1	0	0	0	6	95
MW2050-P01200	0	0	0	1	0	0	65	MW2050-P01200-S06	0	0	0	1	0	0	6	95
MW2050-P01300	0	0	0	0	1	0	95	MW2050-P01300-S06	0	0	0	0	1	0	6	125
MW2050-P01500	0	0	0	0	0	1	125	MW2050-P01500-S06	0	0	0	0	0	1	6	155
MW2050-P0260	2	0	0	0	0	0	50	MW2050-P0260-S06	2	0	0	0	0	0	6	71.6
MW2050-P02100	0	2	0	0	0	0	71.6	MW2050-P02100-S06	0	2	0	0	0	0	6	93.2
MW2050-P02150	0	0	2	0	0	0	95	MW2050-P02150-S06	0	0	2	0	0	0	6	125
MW2050-P02200	0	0	0	2	0	0	95	MW2050-P02200S-06	0	0	0	2	0	0	6	125
MW2050-P02300	0	0	0	0	2	0	155	MW2050-P02300-S06	0	0	0	0	2	0	6	185
MW2050-P02500	0	0	0	0	0	2	215	MW2050-P02500-S06	0	0	0	0	0	2	6	245
MW2050-P0360	3	0	0	0	0	0	60.8	MW2050-P0360-S06	3	0	0	0	0	0	6	82.4
MW2050-P03100	0	3	0	0	0	0	93.2	MW2050-P03100-S06	0	3	0	0	0	0	6	114.8
MW2050-P03150	0	0	3	0	0	0	125	MW2050-P03150-S06	0	0	3	0	0	0	6	155
MW2050-P03200	0	0	0	3	0	0	125	MW2050-P03200-S06	0	0	0	3	0	0	6	155
MW2050-P03300	0	0	0	0	3	0	215	MW2050-P03300-S06	0	0	0	0	3	0	6	245
MW2050-P03500	0	0	0	0	0	3	215	MW2050-P03500-S06	0	0	0	0	0	3	6	245
MW2050-P0460	4	0	0	0	0	0	71.6	MW2050-P0460-S06	4	0	0	0	0	0	6	93.2
MW2050-P04100	0	4	0	0	0	0	114.8	MW2050-P04100-S06	0	4	0	0	0	0	6	136.4
MW2050-P04150	0	0	4	0	0	0	155	MW2050-P04150-S06	0	0	4	0	0	0	6	185
MW2050-P04200	0	0	0	4	0	0	155	MW2050-P04200-S06	0	0	0	4	0	0	6	185
MW2050-P04300	0	0	0	0	4	0	275	MW2050-P04300-S06	0	0	0	0	4	0	6	305
MW2050-P0660	6	0	0	0	0	0	93.2	MW2050-P0660-S06	6	0	0	0	0	0	6	114.8

MW2050-P06100	0	6	0	0	0	0	161	MW2050-P06100-S06	0	6	0	0	0	0	6	182.6
MW2050-P06150	0	0	6	0	0	0	215	MW2050-P06150-S06	0	0	6	0	0	0	6	245
MW2050-P06200	0	0	0	6	0	0	215	MW2050-P06200-S06	0	0	0	6	0	0	6	245

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
Rated Voltage	0~690VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC
Lead Wires	AWG8#=50A or AWG8 parallel
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

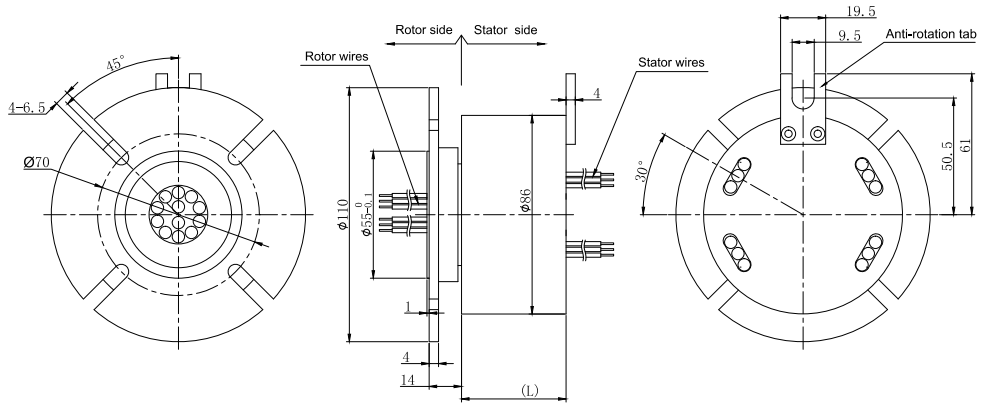
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- 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

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#	60A	100A	150A	length (mm)	part#	60A	100A	150A	Signal ring (Thermocouple)	length (mm)
MW3086-P0610	1	0	0	38.4	MW3086-P0160-S06	1	0	0	6	65.6
MW3086-P01100	0	1	0	45.2	MW3086-P01100-S06	0	1	0	6	75.8
MW3086-P01150	0	0	1	55.4	MW3086-P01150-S06	0	0	1	6	90.4
MW3086-P0260	2	0	0	52	MW3086-P0260-S06	2	0	0	6	70.4
MW3086-P02100	0	2	0	65.6	MW3086-P02100-S06	0	2	0	6	106.4
MW3086-P02150	0	0	2	86	MW3086-P02150-S06	0	0	2	6	130.4
MW3086-P0360	3	0	0	65.6	MW3086-P0360-S06	3	0	0	6	86
MW3086-P03100	0	3	0	86	MW3086-P03100-S06	0	3	0	6	137
MW3086-P03150	0	0	3	116.6	MW3086-P03150-S06	0	0	3	6	170.4
MW3086-P0460	4	0	0	79.2	MW3086-P0460-S06	4	0	0	6	99.6
MW3086-P04100	0	4	0	106.4	MW3086-P04100-S06	0	4	0	6	160
MW3086-P04150	0	0	4	150.2	MW3086-P04150-S06	0	0	4	6	210.4
MW3086-P0660	6	0	0	106.4	MW3086-P0660-S06	6	0	0	6	129.8
MW3086-P06100	0	6	0	150.2	MW3086-P06100-S06	0	6	0	6	231.8

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
Rated Voltage	0~690VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC
Lead Wires	AWG8#=50A or AWG8 parallel
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

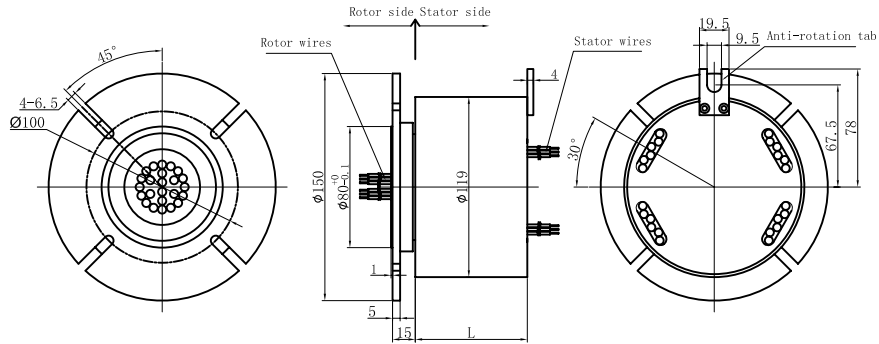
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- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ High temperature can 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#	60A	100A	150A	200A	300A	500A	length (mm)	part#	60A	100A	150A	200A	300A	500A	Signal ring (Thermocouple)	Length (mm)
MW3119-P0160	1	0	0	0	0	0	39.2	MW3119-P0160-S06	1	0	0	0	0	0	6	60.8
MW3119-P01100	0	1	0	0	0	0	50	MW3119-P01100-S06	0	1	0	0	0	0	6	71.6
MW3119-P01150	0	0	1	0	0	0	65	MW3119-P01150-S06	0	0	1	0	0	0	6	95
MW3119-P01200	0	0	0	1	0	0	65	MW3119-P01200-S06	0	0	0	1	0	0	6	95
MW3119-P01300	0	0	0	0	1	0	95	MW3119-P01300-S06	0	0	0	0	1	0	6	125
MW3119-P01500	0	0	0	0	0	1	125	MW3119-P01500-S06	0	0	0	0	0	1	6	155
MW3119-P0260	2	0	0	0	0	0	50	MW3119-P0260-S06	2	0	0	0	0	0	6	71.6
MW3119-P02100	0	2	0	0	0	0	71.6	MW3119-P02100-S06	0	2	0	0	0	0	6	93.2
MW3119-P02150	0	0	2	0	0	0	95	MW3119-P02150-S06	0	0	2	0	0	0	6	125
MW3119-P02200	0	0	0	2	0	0	95	MW3119-P02200S-06	0	0	0	2	0	0	6	125
MW3119-P02300	0	0	0	0	2	0	155	MW3119-P02300-S06	0	0	0	0	2	0	6	185
MW3119-P02500	0	0	0	0	0	2	215	MW3119-P02500-S06	0	0	0	0	0	2	6	245
MW3119-P0360	3	0	0	0	0	0	60.8	MW3119-P0360-S06	3	0	0	0	0	0	6	82.4
MW3119-P03100	0	3	0	0	0	0	93.2	MW3119-P03100-S06	0	3	0	0	0	0	6	114.8
MW3119-P03150	0	0	3	0	0	0	125	MW3119-P03150-S06	0	0	3	0	0	0	6	155
MW3119-P03200	0	0	0	3	0	0	125	MW3119-P03200-S06	0	0	0	3	0	0	6	155
MW3119-P03300	0	0	0	0	3	0	215	MW3119-P03300-S06	0	0	0	0	3	0	6	245
MW3119-P03500	0	0	0	0	0	3	215	MW3119-P03500-S06	0	0	0	0	0	3	6	245
MW3119-P0460	4	0	0	0	0	0	71.6	MW3119-P0460-S06	4	0	0	0	0	0	6	93.2
MW3119-P04100	0	4	0	0	0	0	114.8	MW3119-P04100-S06	0	4	0	0	0	0	6	136.4
MW3119-P04150	0	0	4	0	0	0	155	MW3119-P04150-S06	0	0	4	0	0	0	6	185
MW3119-P04200	0	0	0	4	0	0	155	MW3119-P04200-S06	0	0	0	4	0	0	6	185
MW3119-P04300	0	0	0	0	4	0	275	MW3119-P04300-S06	0	0	0	0	4	0	6	305
MW3119-P0660	6	0	0	0	0	0	93.2	MW3119-P0660-S06	6	0	0	0	0	0	6	114.8

MW3119-P06100	0	6	0	0	0	0	161	MW3119-P06100-S06	0	6	0	0	0	0	6	182.6
MW3119-P06150	0	0	6	0	0	0	215	MW3119-P06150-S06	0	0	6	0	0	0	6	245
MW3119-P06200	0	0	0	6	0	0	215	MW3119-P06200-S06	0	0	0	6	0	0	6	245

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
Rated Voltage	0~690VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC
Lead Wires	AWG8#=50A or AWG8 parallel
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

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 - P0630-P0208

MW:large current series slip ring

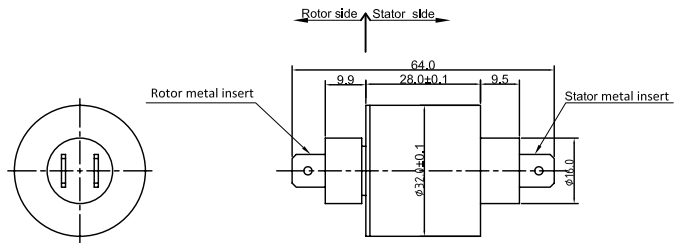
4 : exit with pins

032: outer diameter 32mm

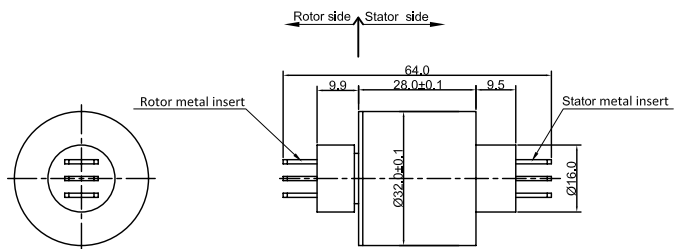
P0208 : 2 rings , 8A/ring

P0630 : 6 rings , 30A/ring

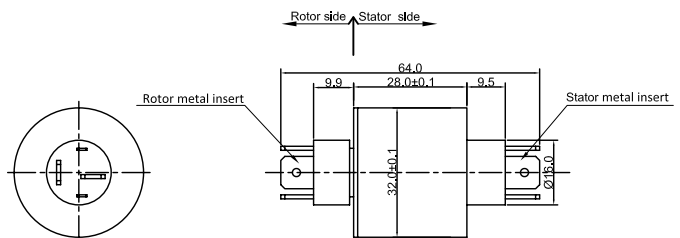
MW4032-P0230 Dimensions



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	0~440VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	Exit with pins	Exit with pins
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	

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.

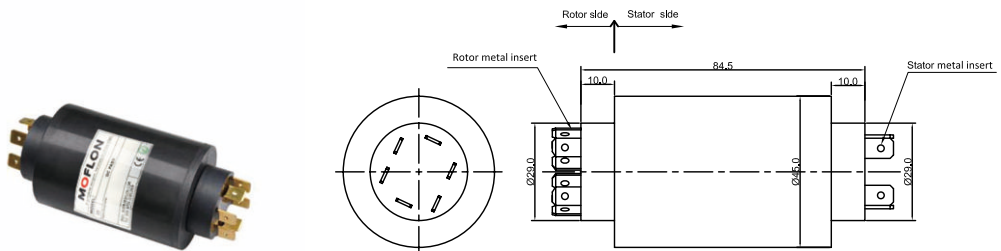
Part# Explanation

MW 4045 - P0230-P0208

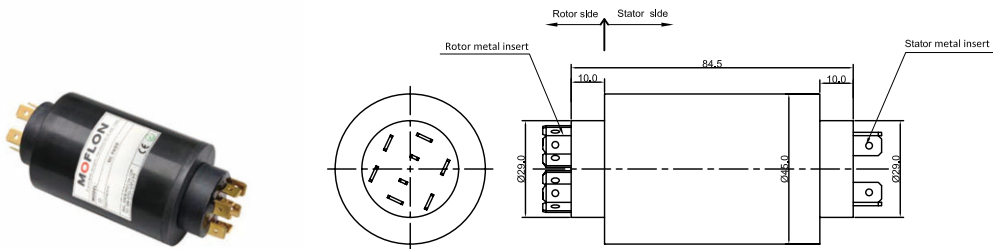
MW:large current series slip ring
4 : exit with pins
045: outer diameter 45mm

P0208 : 2 rings , 8A/ ring
P0230 : 2 rings , 30A/ring

MW4045-P0430-P0208 Dimensions



MW4045-P0630-P0208 Dimensions



Part# List

MW4035 Series (Insertion) slip ring part# list				
Part# list	30A	Signal or 8A	Length (mm)	Remarks
MW4045-P0430-P0208	4	2	84.5	Can replace A6H,M630
MW4045-P0630-P0208	6	2	84.5	Can replace A8H,M830

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

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 Material	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	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	Exit with pins	Exit with pins
Lead Length	Standard 300mm	
Dielectric Strength	500VAC@50Hz , 60s	
Electrical Noise	<0.01Ω	

MW5045 series slip rings

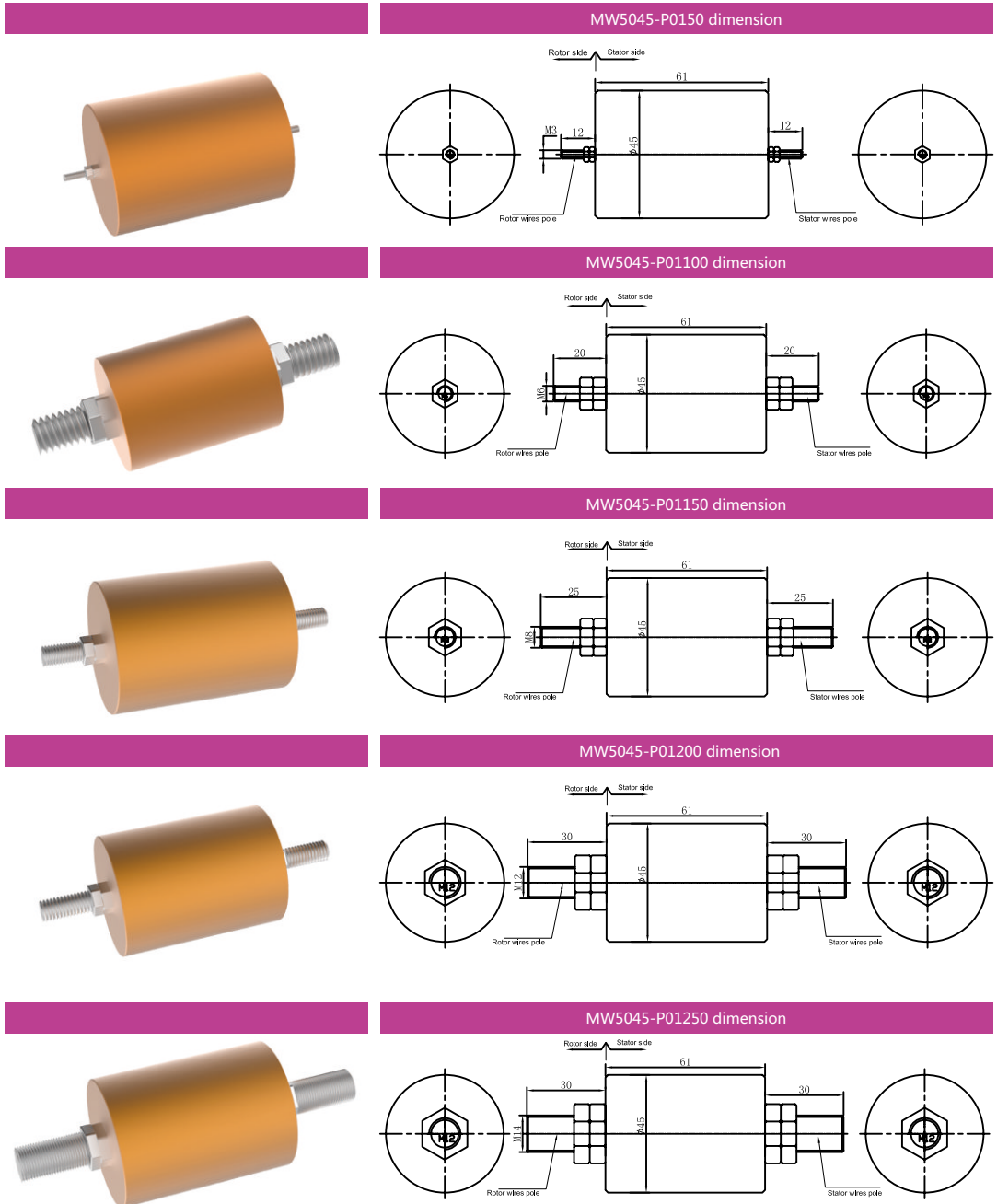
MW5045 series is terminal large current slip ring with signal wire; the current can be 50A/100A/200A/500A. Advantages: small size, light weight, large current-carrying. This series slip ring is suitable for the occasion where single big current is needed, such as welding, electroplating industry, etc.

Part# Explanation

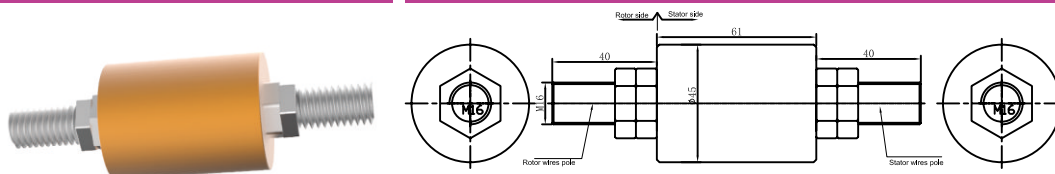
MW 5045 - P0150

MW:large current series slip ring
5 : exit with terminals
045: outer diameter 45mm

P0150 : P-Power ring,
01-1 ring 50-50A/ring



MW5045-P01500 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/500VDC
Operating Humidity	0~85% RH	Lead Wires	terminal
Contact Material	precious metal	Lead Length	Standard 300mm
Housing Materia	aluminium alloy	Dielectric Strength	500VAC@50Hz , 60s
Torque	0.1N.m ; +0.03N.m/6rings	Electrical Noise	<0.01Ω
Protection Grade	IP51		

Options for custom slip ring

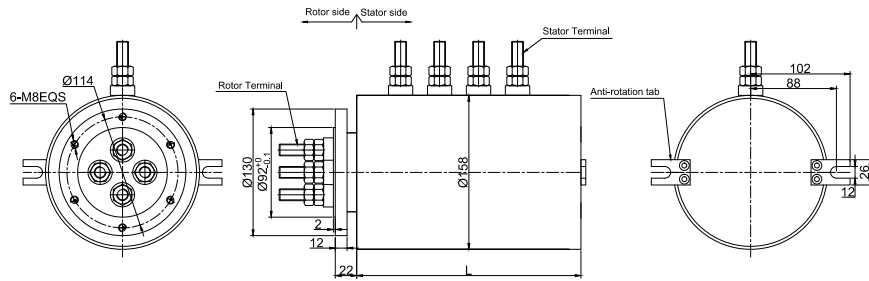
Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- 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 wires 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/500VDC	≥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