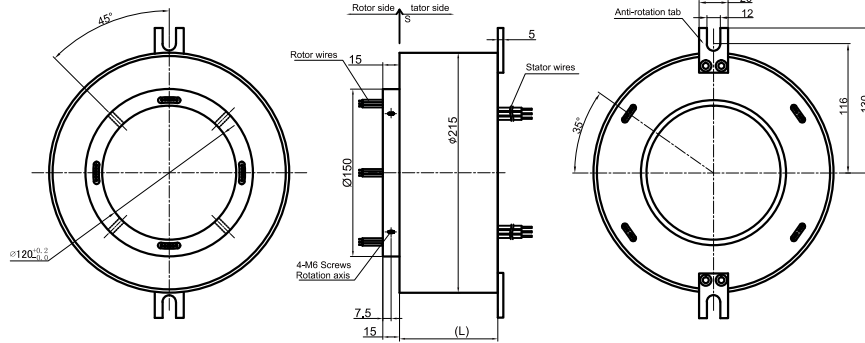
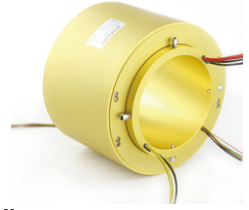


# MT120215 Series

MT120185 series provides a 120mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 215mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications. MT120185 series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.



## Part# Explanation

**MT**:through bore slip ring  
**120215**:120-ID 120mm;215-OD 215mm  
**P**:power ring  
**0610**:06-6rings;10-rated 10A/ring

**MT 120215 - P 06 10 - S 06 - VC**

Product quality level  
 VC-common quality version  
 VD-industrial quality version  
 Default=VC  
 06:6 rings  
 S:signal(5A)

## Part# List

MT120215 Series Parts# List							
Part#	10A	Signal or 5A	Length-L (mm)	Part#	10A	Signal or 5A	Length-L (mm)
MT120215-S02	0	2	68	MT120215-S36	0	36	243
MT120215-P0210	2	0	68	MT120215-P0610-S30	6	30	243
MT120215-S03	0	3	73	MT120215-P1210-S24	12	24	243
MT120215-P0310	3	0	73	MT120215-P3610	36	0	243
MT120215-S06	0	6	88	MT120215-S42	0	42	273
MT120215-P0210-S04	2	4	88	MT120215-P0610-S36	6	36	273
MT120215-P0410-S02	4	2	88	MT120215-P1210-S30	12	30	273
MT120215-P0610	6	0	88	MT120215-S48	0	48	303
MT120215-S12	0	12	118	MT120215-P0610-S42	6	42	303
MT120215-P0210-S10	2	10	118	MT120215-P0910-S39	9	39	303
MT120215-P0310-S09	3	9	118	MT120215-P1210-S36	12	36	303
MT120215-P0610-S06	6	6	118	MT120215-P1810-S30	18	30	303
MT120215-P0810-S04	8	4	118	MT120215-P2410-S24	24	24	303
MT120215-P1010-S02	10	2	118	MT120215-S60	0	60	363
MT120215-P1210	12	0	118	MT120215-P0610-S54	6	54	363
MT120215-S18	0	18	148	MT120215-P0910-S51	9	51	363
MT120215-P0210-S16	2	16	148	MT120215-P1210-S48	12	48	363
MT120215-P0410-S14	4	14	148	MT120215-S72	0	72	428
MT120215-P0610-S12	6	12	148	MT120215-P0610-S66	6	66	428
MT120215-P0810-S10	8	10	148	MT120215-P1210-S60	12	60	428
MT120215-P1010-S08	10	8	148	MT120215-P2410-S48	24	48	428
MT120215-P1210-S06	12	6	148	MT120215-P3610-S36	36	36	428
MT120215-P1410-S04	14	4	148	MT120215-S84	0	84	488
MT120215-P1610-S02	16	2	148	MT120215-P1210-S72	12	72	488
MT120215-S24	0	24	178	MT120215-P2410-S60	24	60	488
MT120215-P0410-S20	4	20	178	MT120215-P3610-S48	36	48	488
MT120215-P0610-S18	6	18	178	MT120215-S96	0	96	548
MT120215-P1210-S12	12	12	178	MT120215-P1210-S84	12	84	548
MT120215-P1810-S06	18	6	178	MT120215-P2410-S72	24	72	548
MT120215-P2410	24	0	178	MT120215-P3610-S60	36	60	548
MT120215-S30	0	30	208	MT120215-P4210-S54	42	54	548
MT120215-P0610-S24	6	24	208	MT120215-S108	0	108	613
MT120215-P1210-S18	12	18	208	MT120215-P1210-S96	12	96	613
MT120215-P1810-S12	18	12	208	MT120215-P2410-S84	24	84	613
MT120215-P2410-S06	24	6	208	MT120215-P3610-S72	36	72	613
MT120215-P3010	30	0	208	MT120215-P4810-S60	48	60	613

Note: 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. 10A,5A (signal) can combine freely in any way.It can be customized based on standard slip ring,please contact customer service for more details.

## Specifications

Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard 300mm(adjustable)	
Insulation Strength	1000VAC@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	150RPM	10 Million Revs	Precious Metal
VD	250RPM	20 Million Revs	Gold-plated

## Lead Wires Color Code

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

## 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](mailto:technical@moflon.com)