

## MP220 - MP SERIES

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## MP220 Slip Rings

MP210 slip rings, with through bore size 25.4mm(1"), Thickness(Length) 22.00mm, are standard, off-the-shelf, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.

PART# Explanation:

MP220 - P0610 - S06

S06: signal/2A each @ 6 circuits  
P0610: 10A each @ 6 circuits



### Specifications

PART #	OD	SIGNAL 2A	10A	20A	TOTAL WIRES	PART #	OD	SIGNAL 2A	10A	20A	TOTAL WIRES
MP220-S02	92	2	0	0	2	MP220-P0210	92	0	2	0	2
MP220-P0210-S02	108	2	2	0	4	MP220-P0410	108	0	4	2	4
MP220-S06	124	6	0	0	6	MP220-P0610	124	0	6	0	6
MP220-P0620	124	0	0	6	6	MP220-P0210-S04	124	4	2	0	6
MP220-S12	172	12	0	0	12	MP220-P1210	172	0	12	0	12
MP220-P1220	172	0	0	12	12	MP220-P0610-S06	172	6	6	0	12
MP220-P0620-S06	172	6	0	6	12	MP220-S18	216	18	0	0	18
MP220-P1810	216	0	18	0	18	MP220-P0610-S12	216	12	6	0	18
MP220-P1210-S06	216	6	12	0	18	MP220-P0810-S10	204	10	8	0	18
MP220-S24	268	24	0	0	24	MP220-P2410	268	0	24	0	24
MP220-P1210-S12	268	12	12	0	24	MP220-P0610-S18	268	6	18	0	24
MP220-S36	364	36	0	0	36	MP220-S48	460	48	0	0	48

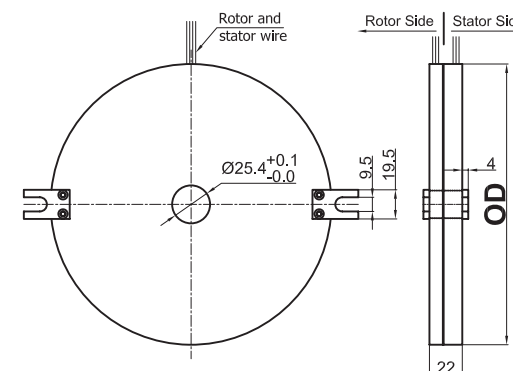
### Shared Specifications

Rings	2-36(see table as above)	Current	Signal(2A),10A,Multiple 10A
Voltage	250 VDC/VAC	Max speed	250RPM
Through Bore size	25.4mm(1")	Thickness	22mm (0.86")
Housing Material	Aluminium Alloy	Torque	0.8N.m
Working life	80million revolutions	Contact material	Precious Metal:Gold-Gold
Electrical noise	<20 milliohms	Contact Resistance	<200mOhm(AWG16#,300mm)
Dielectric strength	1000VDC@50Hz	Lead Wire	UL Teflon®
Insulation resistance	1000MΩ@600VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 2A/signal -> AWG22, 10A -> AWG16, 20A -> Awg14, colored code.
- 3)Electrical noise is dependent upon the rotating speed and current,voltage.

### Drawings



MP220

12 wires for one group color. from 13 ... 24, repeat the same color as 1 ... 12,indicated with number code pipe.

### Lead wire Color codes

Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	5	YEL	9	GRY
2	BRN	6	GRN	10	WHT
3	RED	7	BLU	11	PINK
4	ORN	8	PURPLE	12	AZURY

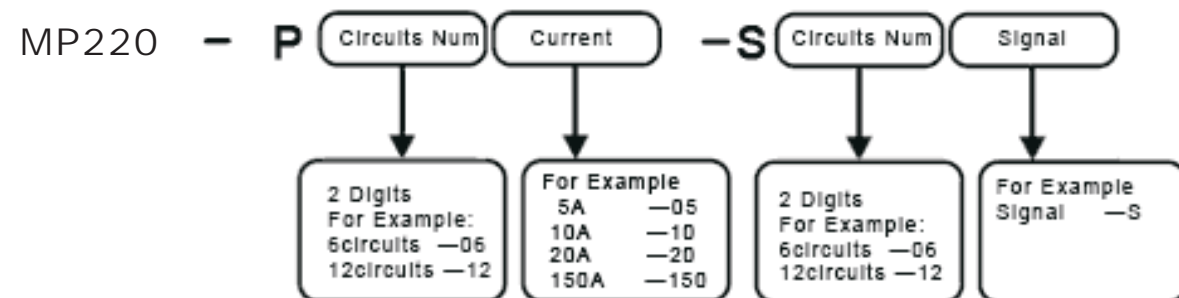
### Options

- ▶ MP229 is the high-end version corresponding to MP220.
- ▶ MP221 is the low-cost version corresponding to MP220
- ▶ Can combine more wires:1-72Ring
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ Shielded cables
- ▶ Connectors
- ▶ Frequencies up to 500 MHz
- ▶ High-speed data transmission for fast Ethernetand EtherCat
- ▶ Signal, Coax, and Power combinations
- ▶ Thermocouples
- ▶ Shock, Vibration, and Temperature Qualified
- ▶ Pneumatic/Hydraulic Capability
- ▶ High temperature---up to 450 degree
- ▶ High Voltage & large Current(1000A)
- ▶ Military Grade.

## Build On Request

### how to build on request?

Please see ordering information instructions as below:



For example:

- ▶ if order MP220 with 8wires\*15A each + 17wires\*signal,the model should be MP220-P0815-S17.
- ▶ if order MP220 with 15wires\*10A each + 3 wires\*50A + 8wires\*signal,the model should be MP220-P1510-P0350-S08
- ▶ if you have other optional requirements,such as wire exit direction,lead wire length,connectors,high temperature, large current,military grade, Please describe in your email.

After Finishing above, pls send email to us: [technical@moflon.com](mailto:technical@moflon.com) for further technical support.

## MP240 Slip Rings

MP240 slip rings, with through bore size 40.00mm(1.57"), Thickness(Length) 30.00mm, are standard, off-the-shelf, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.

PART# Explanation:

MP240 - P0610 - S06

S06: signal/2A each @ 6 circuits

P0610: 10A each @ 6 circuits



### Specifications

PART #	OD	SIGNAL 2A	10A	20A	TOTAL WIRES	PART #	OD	SIGNAL 2A	10A	20A	TOTAL WIRES
MP240-S02	120	2	0	0	2	MP240-P0210	120	0	2	0	2
MP240-P0210-S02	136	2	2	0	4	MP240-P0410	136	0	4	2	4
MP240-S06	152	6	0	0	6	MP240-P0610	152	0	6	0	6
MP240-P0620	152	0	0	6	6	MP240-P0210-S04	152	4	2	0	6
MP240-S12	200	12	0	0	12	MP240-P1210	200	0	12	0	12
MP240-P1220	200	0	0	12	12	MP240-P0610-S06	200	6	6	0	12
MP240-P0620-S06	200	6	0	6	12	MP240-S18	248	18	0	0	18
MP240-P1810	248	0	18	0	18	MP240-P0610-S12	248	12	6	0	18
MP240-P1210-S06	248	6	12	0	18	MP240-P0810-S10	248	10	8	0	18
MP240-S24	296	24	0	0	24	MP240-P2410	296	0	24	0	24
MP240-P1210-S12	296	12	12	0	24	MP240-P0610-S18	296	6	18	0	24
MP240-S36	392	36	0	0	36	MP240-S48	488	48	0	0	48

### Shared Specifications

Rings	2-48(see table as above)	Current	Signal(2A),10A,Multiple 10A
Voltage	250 VDC/VAC	Max speed	250RPM
Through Bore size	40mm(1.57")	Thickness	30mm (1.18")
Housing Material	Aluminium Alloy	Torque	0.8N.m
Working life	80million revolutions	Contact material	Precious Metal:Gold-Gold
Electrical noise	<20 milliohms	Contact Resistance	<200mOhm(AWG16#,300mm)
Dielectric strength	1000VDC@50Hz	Lead Wire	UL Teflon®
Insulation resistance	1000MΩ@600VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibration	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES