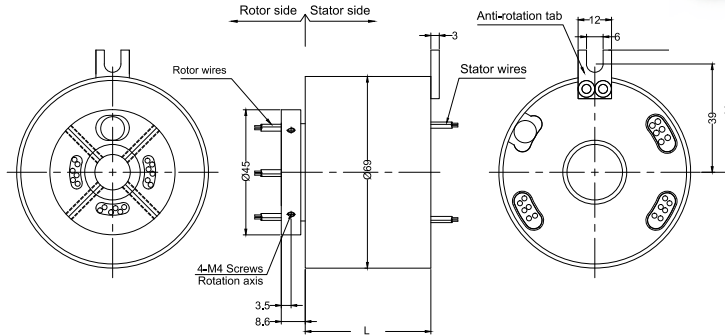


# MB120 Series

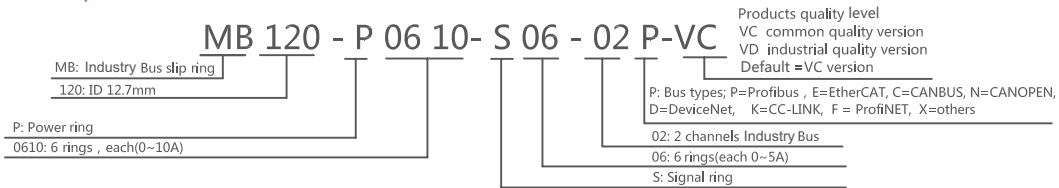
## Industry Bus Slip Rings(high speed transmission)

MB120 series is our standard series integral and precise industry bus slip ring , with bore size 12.7mm (1/2" , suitable for <=12.7mm), can support Profibus, EtherCAT, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, etc.

Note: If required through bore<12.7mm,this can be solved by adding a sleeve inside the bore.



### Part# Explanation



### Part# List

Mb120 Series Industry Bus Slip Rings Part List Table									
Part#	10A	Signal or 5A	Industrial Bus	Length (mm)	Part#	10A	Signal or 5A	Industrial Bus	Length (mm)
MB120-01P	0	0	Profibus ×1	45.2	MB120-01E	0	0	EtherCAT ×1	45.2
MB120-P0610-01P	6	0	Profibus ×1	65.6	MB120-P0610-01E	6	0	EtherCAT ×1	65.6
MB120-P1210-01P	12	0	Profibus ×1	86	MB120-P1210-01E	12	0	EtherCAT ×1	86
MB120-P0610-S06-01P	6	6	Profibus ×1	86	MB120-P0610-S06-01E	6	6	EtherCAT ×1	86
MB120-S12-01P	0	12	Profibus ×1	86	MB120-S12-01E	0	12	EtherCAT ×1	86
MB120-P1810-01P	18	0	Profibus ×1	106.4	MB120-P1810-01E	18	0	EtherCAT ×1	106.4
MB120-P0610-S12-01P	6	12	Profibus ×1	106.4	MB120-P0610-S12-01E	6	12	EtherCAT ×1	106.4
MB120-P1210-S06-01P	12	6	Profibus ×1	106.4	MB120-P1210-S06-01E	12	6	EtherCAT ×1	106.4
MB120-S24-01P	0	24	Profibus ×1	126.8	MB120-S24-01E	0	24	EtherCAT ×1	126.8
MB120-P1210-S12-01P	12	12	Profibus ×1	126.8	MB120-P1210-S12-01E	12	12	EtherCAT ×1	126.8
MB120-S30-01P	0	30	Profibus ×1	150.2	MB120-S30-01E	0	30	EtherCAT ×1	150.2
MB120-S36-01P	0	36	Profibus ×1	170.6	MB120-S36-01E	0	36	EtherCAT ×1	170.6
MB120-01C	0	0	CANBUS ×1	45.2	MB120-01D	0	0	DeviceNET ×1	45.2
MB120-P0610-01C	6	0	CANBUS ×1	65.6	MB120-P0610-01D	6	0	DeviceNET ×1	65.6
MB120-P1210-01C	12	0	CANBUS ×1	86	MB120-P1210-01D	12	0	DeviceNET ×1	86
MB120-P0610-S06-01C	6	6	CANBUS ×1	86	MB120-P0610-S06-01D	6	6	DeviceNET ×1	86
MB120-S12-01C	0	12	CANBUS ×1	86	MB120-S12-01D	0	12	DeviceNET ×1	86
MB120-P1810-01C	18	0	CANBUS ×1	106.4	MB120-P1810-01D	18	0	DeviceNET ×1	106.4
MB120-P0610-S12-01C	6	12	CANBUS ×1	106.4	MB120-P0610-S12-01D	6	12	DeviceNET ×1	106.4
MB120-P1210-S06-01C	12	6	CANBUS ×1	106.4	MB120-P1210-S06-01D	12	6	DeviceNET ×1	106.4
MB120-S24-01C	0	0	CANBUS ×1	126.8	MB120-S24-01D	0	0	DeviceNET ×1	126.8
MB120-P1210-S12-01C	12	12	CANBUS ×1	126.8	MB120-P1210-S12-01D	12	12	DeviceNET ×1	126.8
MB120-S30-01C	0	30	CANBUS ×1	150.2	MB120-S30-01D	0	30	DeviceNET ×1	150.2
MB120-S36-01C	0	36	CANBUS ×1	170.6	MB120-S36-01D	0	36	DeviceNET ×1	170.6
MB120-01N	0	0	CANOPEN ×1	45.2	MB120-01F	0	0	ProfiNET ×1	45.2
MB120-P0610-01N	6	0	CANOPEN ×1	65.6	MB120-P0610-01F	6	0	ProfiNET ×1	65.6
MB120-P1210-01N	12	0	CANOPEN ×1	86	MB120-P1210-01F	12	0	ProfiNET ×1	86
MB120-P0610-S06-01N	6	6	CANOPEN ×1	86	MB120-P0610-S06-01F	6	6	ProfiNET ×1	86
MB120-S12-01N	0	12	CANOPEN ×1	86	MB120-S12-01F	0	12	ProfiNET ×1	86
MB120-P1810-01N	18	0	CANOPEN ×1	106.4	MB120-P1810-01F	18	0	ProfiNET ×1	106.4
MB120-P0610-S12-01N	6	12	CANOPEN ×1	106.4	MB120-P0610-S12-01F	6	12	ProfiNET ×1	106.4
MB120-P1210-S06-01N	12	6	CANOPEN ×1	106.4	MB120-P1210-S06-01F	12	6	ProfiNET ×1	106.4
MB120-S24-01N	0	24	CANOPEN ×1	126.8	MB120-S24-01F	0	24	ProfiNET ×1	126.8

MB120-P1210-S12-01N	12	12	CANOPEN ×1	126.8	MB120-P1210-S12-01F	12	12	ProfiNET×1	126.8
MB120-S30-01N	0	30	CANOPEN ×1	150.2	MB120-S30-01F	0	30	ProfiNET ×1	150.2
MB120-S36-01N	0	36	CANOPEN ×1	170.6	MB120-S36-01F	0	36	ProfiNET ×1	170.6
MB120-01K	0	0	CC-LINK ×1	45.2	MB120-P0610-S12-01K	6	12	CC-LINK ×1	106.4
MB120-P0610-01K	6	0	CC-LINK×1	65.6	MB120-P1210-S06-01K	12	6	CC-LINK ×1	106.4
MB120-P1210-01K	12	0	CC-LINK ×1	86	MB120-S24-01K	0	24	CC-LINK ×1	126.8
MB120-P0610-S06-01K	6	6	CC-LINK ×1	86	MB120-P1210-S12-01K	12	12	CC-LINK ×1	126.8
MB120-S12-01K	0	12	CC-LINK ×1	86	MB120-S30-01K	0	30	CC-LINK ×1	150.2
MB120-P1810-01K	18	0	CC-LINK ×1	106.4	MB120-S36-01K	0	36	CC-LINK ×1	170.6

Note: 1) N channels 10A rings parallel can be used as 1 channel N\*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A  
 2) Power 10A and signal rings number can be with flexible module configuration on customer's request. Please contact customer service for more various industrial bus configuration.

## Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
Working Life	See product quality level table		Power	Signal
Rotating Speed	See product quality level table	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Working Temperature	-30°C~80°C	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Operating Humidity	0~85% RH	Lead Wire	AWG16#Teflon	AWG22#Teflon or bus cable
Contact Material	See product quality level table	Lead Length	standard length 300mm ( adjustable )	
Housing Material	aluminum alloy	Insulating Strength	500VAC@50Hz , 60s	
Torque	0.1N.m ; +0.03N.m/6 rings	Electrical Noise	<0.01Ω	
Protection Grade	IP51			

## Product Quality Level Table

Quality Level Code	Max Rotating Speed	Working Life	Contact Material
VC ( Common Version )	200RPM	15 Million Revs	Precious Metal
VD ( Industrial Version )	600RPM	80 Million Revs	Gold-Gold
VH ( high-end version )	1000RPM	150 Million Revs	Aluminum Alloy

## 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 colors, 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 Bore diameter can be customized; cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ High temperature can up to 500 degrees.
- ⑪ High pressure can up to 110KV
- ⑫ Rotating speed can up to 10000RPM
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade
- ⑮ Optional for underwater IP65, IP68.
- ⑯ Optional for stainless steel housing

Technical support: technical@moflon.com