

# MB120 Slip Rings

MB120 slip rings, with through bore size 12.7mm(0.5"), overall diameter 56mm, are specialized slip rings solutions, it can combine with power,signal,Ethernet,USB,Devicenet,Control Net,Canbus on request! It also could be mounted by shaft or optional flange mounting.



MB120 series Can Transmit high speed data as following:

- ▶ Ethernet (10M / 100M / 1000M BaseT).
- ▶ Device Net
- ▶ Control Net
- ▶ USB 1.0,USB2.0
- ▶ CanBus
- ▶ Video

## Specifications

### Shared Specifications

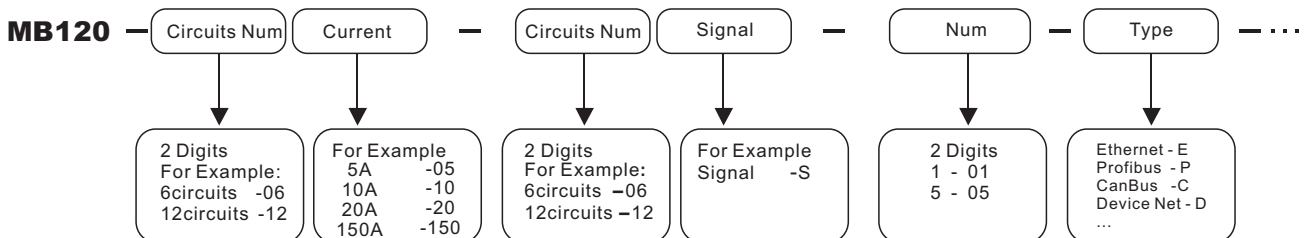
Rating voltage	600 VDC/VAC	Contact material	Precious Metal:Gold-Gold
Dielectric strength	1000VDC@50Hz	Lead Wire	UL Teflon®
Insulation resistance	1000MΩ@600VDC	Lead Lengths	250mm
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical vibratio	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

Notes:

- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 5A/signal -> AWG22, 10A -> AWG16, 20A -> Awg14, colored code.
- 3)Electrical noise is dependent upon the rotating speed and current,voltage.

## How to Order?

Please see ordering information instructions as below:



Broadband Type:

- F - 10, 100 BaseT Ethernet - RJ45
- E - 1000 BaseT Ethernet - RJ45
- P - Profibus - 9-Pin D-Sub
- C - CanBus - 9-Pin D-Sub
- D - Device Net - 5 Pin Micro Change
- T - Control Net - 75 Ω BNC
- V - USB 1.0
- U - USB 2.0
- Q - Coax - 75 Ω BNC

For example:

MB120-0815-06S-02U means 8wires\*15A each + 6wires\*signal + 2 channel USB2.0

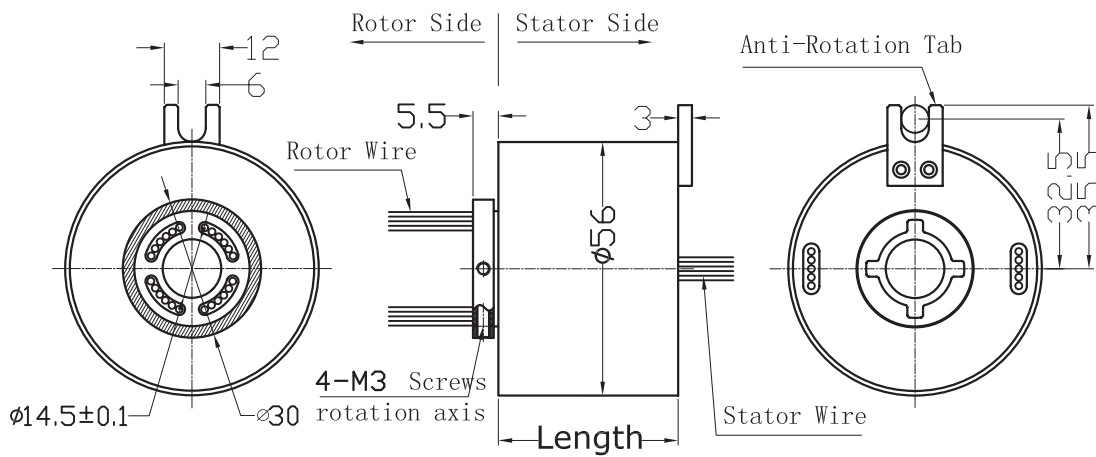
MB120-0410-02U-03E-FL01 means 4wires\*10A each + + 2 channel USB2.0 + 3 channel 1000M Ethernet, with flange FL01 style mounting instead of shaft mounted.

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, please send email to us: [technical@moflon.com](mailto:technical@moflon.com) for further technical support.

## Drawings

### Standard drawings:



**MB120**

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

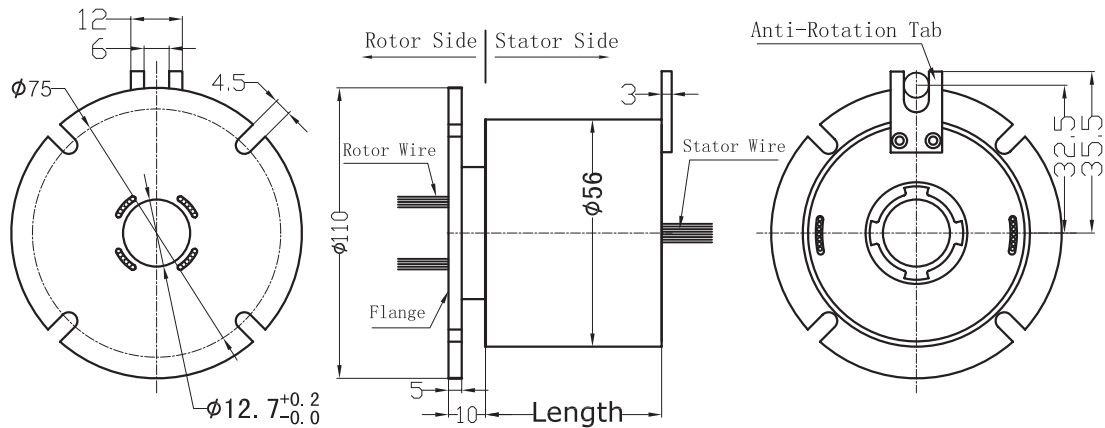
Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	5	YEL	9	GRY
2	BRN	6	GRN	10	WHT
3	RED	7	BLU	11	PINK
4	ORN	8	PURPLE	12	AZURY

### Optional Flanges mounting:

At sometimes, we need a different flange for mounting instead, how should we do?

Great! Moflon supply flange style as below:

(when you order, pls add FL01 at the suffix of Part#, for example: MB120-06S-FL01 means MB120-06S with optional flange FL01.)



Suffix - FL01

## Options

- ▶ Can combine more wires:1-96Ring
- ▶ Specified connectors and Heat-shrink tube.
- ▶ Longer lead lengths available.
- ▶ Shielded cables
- ▶ Connectors
- ▶ Frequencies up to 500 MHz
- ▶ High-speed data transmission for fast Ethernet and 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.

## Application

### Typical Application

- ▶ Industrial machinery
- ▶ Filling equipment
- ▶ Exhibit / display equipment
- ▶ Medical equipment
- ▶ machining centerse
- ▶ rotary index tables
- ▶ Mechanical arm
- ▶ Surgery lamp
- ▶ heavy equipment turrets or cable reels
- ▶ Revolving door
- ▶ Packaging machine
- ▶ Coiling machine
- ▶ test equipment
- ▶ packaging machines
- ▶ and so on...
- ▶ if you want to use this series slip ring on your mechanism, pls contact us for more application:[technical@moflon.com](mailto:technical@moflon.com)