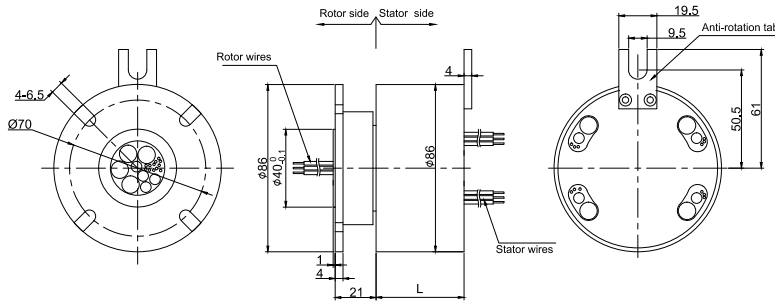


MSE1086 Series Slip Rings

Special servo slip ring designed for Yaskawa, Panasonic, Mitsubishi, Siemens servo motor with stable and reliable performance. It can combine with any power, switching signal or bus signal, For example: Profibus, Profinet... It can also be combined with rotary joint. Inner wiring and shield structure can totally prevent the mistake of encoder error. Gold-gold contact, high performance, many years of experience for Siemens/Heidenhain control system.



Part# Explanation

MSE 1086 - 01A10 - P0610 - S06 - VC

Products quality level
 VC common quality version
 VD industrial quality version
 Default = VC version

MSE: Servo-Encoder Slip Rings
 1086: Flange Mounting, OD 86mm

Servo Motor Num: 01: 1 set, 02: 2 set, 03: 3 set, 04: 4 set
 Note: 1 set motor has 1 power cable (4 cores), and Control-Encoder cable (6 cores) in and out.

A10: Servo Motor Power Current, Max 10A. Omit is 10A

P0610: Other Power Rings, 6rings, 10A/ring

S06: Other Signal rings, 6rings, signal(5A)/ring

Part# List

| MSE1086 Series Servo Encoder Slip Ring Part List | | | | | | |
|--|--|---|--------------|-----|-------------|--|
| Part# | Cable for power (4 cores in total, A10 = 10A/core, And by this analogy) | Cable for encoder control (6-core shield) | signal or 5A | 20A | Length (mm) | |
| MSE1086-01 | 1 | 1 | 0 | 0 | 65.6 | |
| MSE1086-01-S06 | 1 | 1 | 6 | 0 | 65.6 | |
| MSE1086-01-S12 | 1 | 1 | 12 | 0 | 86 | |
| MSE1086-01-S18 | 1 | 1 | 18 | 0 | 106.4 | |
| MSE1086-01-S24 | 1 | 1 | 24 | 0 | 126.8 | |
| MSE1086-01-P0620-S12 | 1 | 1 | 12 | 6 | 150.2 | |
| MSE1086-01-S36 | 1 | 1 | 36 | 0 | 150.2 | |
| MSE1086-02 | 2 | 2 | 0 | 0 | 193.2 | |
| MSE1086-02-S06 | 2 | 2 | 6 | 0 | 106.4 | |
| MSE1086-02-S12 | 2 | 2 | 12 | 0 | 126.8 | |
| MSE1086-02-S18 | 2 | 2 | 18 | 0 | 150.2 | |
| MSE1086-02-S24 | 2 | 2 | 24 | 0 | 193.2 | |
| MSE1086-02-P0620-S12 | 2 | 2 | 12 | 6 | 193.2 | |
| MSE1086-02-S36 | 2 | 2 | 36 | 0 | 193.2 | |
| MSE1086-03 | 3 | 3 | 0 | 0 | 234 | |
| MSE1086-03-S06 | 3 | 3 | 6 | 0 | 150.2 | |
| MSE1086-03-S12 | 3 | 3 | 12 | 0 | 193.2 | |
| MSE1086-03-S18 | 3 | 3 | 18 | 0 | 193.2 | |
| MSE1086-03-S24 | 3 | 3 | 24 | 0 | 234 | |
| MSE1086-03-P0620-S12 | 3 | 3 | 12 | 6 | 234 | |
| MSE1086-03-S36 | 3 | 3 | 36 | 0 | 234 | |
| MSE1086-04 | 4 | 4 | 0 | 0 | 277.8 | |
| MSE1086-04-S06 | 4 | 4 | 6 | 0 | 193.2 | |
| MSE1086-04-S12 | 4 | 4 | 12 | 0 | 224 | |
| MSE1086-04-S18 | 4 | 4 | 18 | 0 | 234 | |
| MSE1086-04-S24 | 4 | 4 | 24 | 0 | 277.8 | |
| MSE1086-04-P0620-S12 | 4 | 4 | 12 | 6 | 277.8 | |

Note: N channels 5A rings parallel can be used as 1 channel N*5A current. For example: 2 rings 5A parallel could be used as 1 wires 10A

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 Wires | Power wire AWG#16 | 6 cores shielded cable or AWG#22 |
| Contact Material | See product quality level table | Lead Length | Standard 300mm (adjustable) | |
| Housing Material | aluminium alloy | Dielectric Strength | 500VAC@50Hz, 60s | |
| Torque | 0.3N.m; +0.03N.m/6 circuits | Electrical Noise | <0.01Ω | |
| Protection Grade | IP51 | | | |

Product Quality Level Table

| Products Level Code | Max Rotating Speed | Working Life | Contact Material |
|---------------------|--------------------|----------------|------------------|
| VC | 250RPM | 15 Million Rev | Precious Metal |
| VD | 600RPM | 60 Million Rev | Gold-Gold |

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