MT100185 Series

MT100185 series provides a 100mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotary shaft installation, and a compact 185mm outside diameter for long life, fiber brush contact technology for ultimate performance in many challenging applications.

MT100185 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)

MT100185-P3010
MT100185-P2410-S06
MT100185-P1810-S12
MT100185-P1210-S18
MT100185-P0610-S12
MT100185-P0410-S20
MT100185-S24
MT100185-P1610-S02
MT100185-P0610-S18
MT100185-P1010-S02
MT100185-P0610-S06
MT100185-P0310-S09
MT100185-P0210-S10
MT100185-P0210
MT100185-S06
MT100185-P0210

MT100185 Series Parts# List


Part# List

- **Part#**
  - 01
  - 02
  - 03
  - 04
  - 05
  - 06
  - 07
  - 08
  - 09
  - 10
  - 11
  - 12

- **Signal or SA**
  - 10A
  - 20A
  - 30A
  - 40A
  - 50A
  - 60A
  - 70A
  - 80A
  - 90A
  - 100A
  - 110A
  - 120A

- **Length L (mm)**
  - 50
  - 60
  - 70
  - 80
  - 90
  - 100
  - 110
  - 120
  - 130
  - 140
  - 150
  - 160
  - 170
  - 180
  - 190
  - 200

- **Options**
  - Long length (optional)
  - Copper wire (optional)
  - Teflon cable (optional)

**Specifications**

- **Electrical Data**
  - **Parameter**
    - Rated Voltage
    - Insulation Resistance
    - Lead Wires
    - Insulation Strength
    - Electrical Noise
  - **Value**
    - 0~690VAC/VDC
    - ≥1000MΩ/500VDC
    - AWG16#Teflon/AR12/Awy
    - 1000VAC/50Hz, 60s
    - <0.01Ω

- **Mechanical Data**
  - **Parameter**
    - Working Life
    - Rotating Speed
    - Operating Humidity
    - Contact Material
    - Housing Material
    - Torque
    - Protection Grade
  - **Value**
    - See Product Quality Level Table
    - See Product Quality Level Table
    - 0~85%RH
    - See Product Quality Level Table
    - Aluminum Alloy
    - 0.1N.m: <0.01N.m/rings
    - IP61

**Product Quality Level Table**

- **Product Level Code**
  - VC
  - VD
  - VP
  - VQ
  - VR
  - VS
  - VS

- **Max Rotating Speed**
  - 150RPM
  - 400RPM
  - 800RPM

- **Working Life**
  - 10 Million Rins
  - 30 Million Rins
  - 80 Million Rins

- **Contact Material**
  - Precious Metal
  - Gold plated
  - 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
  - 24K Gold Plated

**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 motor 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/Seimens series 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 pressure can up to 1500Kgf/cm²
  11. Rotating speed can up to 10000RPM
  12. Maximum current can up to 5000 amperes.
  13. Military grade
  14. Optional for underwater PIN, IP68.
  15. Optional for stainless steel housing.
  16. Technical support: technical@moflon.com
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Part# Explanation

Part# List

Product Quality Level Table

Specifications

Electrical Data

Mechanical Data

Lead Wires Color Code

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2. Based 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 Yamaha/Panasonic/Doemens sensor 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 Qualcomm, high temperature, etc.
9. Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
10. High temperature can go up to 500 degrees.
11. High pressure can go up to 1000 bar.
12. Rotating speed can go up to 10000RPM.
13. Maximum current can go up to 5000 amperes.
14. MIL-901.
15. Optional for stainless steel housing.
16. Technical support: technical@moflon.cn

Part# List

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