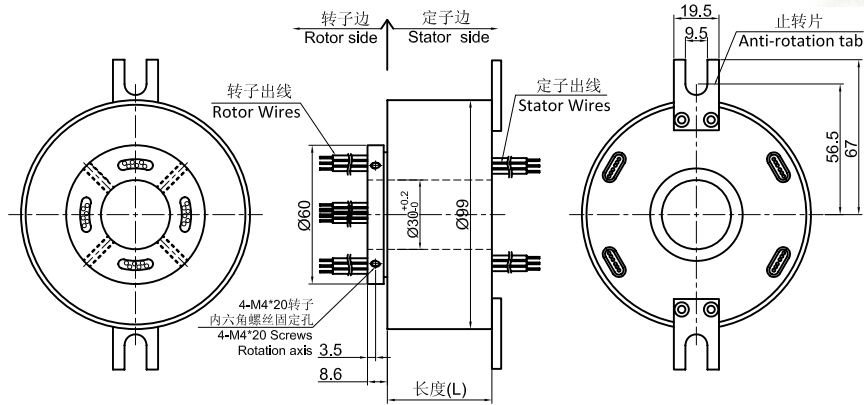


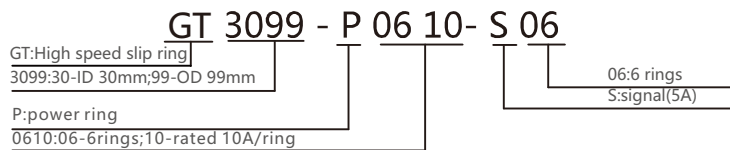
GT3099series

Standard series integral precision conductive slip ring with outer diameter of 86mm and through hole diameter of 25.4mm (applicable to $\leq 25.4\text{mm}$).

*Note: if the inner hole of $< 25.4\text{mm}$ is needed, it can be solved by adding inner sleeve.



Part# Explanation



Part# List

| Gt3099 Series Parts# List | | | | | | | |
|---------------------------|-----|-----------|---------------|------------------|-----|-----------|---------------|
| Part# | 10A | Signal/5A | Length-L (mm) | Part# | 10A | Signal/5A | Length-L (mm) |
| GT3099-S06 | 0 | 06 | 55.6 | GT3099-P1810-S12 | 18 | 12 | 151.8 |
| GT3099-P0210-S04 | 02 | 04 | 55.6 | GT3099-P2410-S06 | 24 | 06 | 151.8 |
| GT3099-P0410-S02 | 04 | 02 | 55.6 | GT3099-P3010 | 30 | 0 | 151.8 |
| GT3099-P0610 | 06 | 0 | 55.6 | GT3099-S36 | 0 | 36 | 174.6 |
| GT3099-S12 | 0 | 12 | 78.4 | GT3099-P0610-S30 | 06 | 30 | 174.6 |
| GT3099-P0210-S10 | 02 | 10 | 78.4 | GT3099-P1210-S24 | 12 | 24 | 174.6 |
| GT3099-P0310-S08 | 04 | 08 | 78.4 | GT3099-P1810-S18 | 18 | 18 | 174.6 |
| GT3099-P0610-S06 | 06 | 06 | 78.4 | GT3099-P2410-S12 | 24 | 12 | 174.6 |
| GT3099-P0810-S04 | 08 | 04 | 78.4 | GT3099-P3610 | 36 | 0 | 174.6 |
| GT3099-P1010-S02 | 10 | 02 | 78.4 | GT3099-S48 | 0 | 48 | 220.2 |
| GT3099-P1210 | 12 | 0 | 78.4 | GT3099-P0610-S42 | 06 | 42 | 220.2 |
| GT3099-S18 | 0 | 18 | 101.2 | GT3099-P1210-S36 | 12 | 36 | 220.2 |
| GT3099-P0210-S16 | 02 | 16 | 101.2 | GT3099-P1810-S30 | 18 | 30 | 220.2 |
| GT3099-P0410-S14 | 04 | 14 | 101.2 | GT3099-P2410-S24 | 24 | 24 | 220.2 |
| GT3099-P0610-S12 | 06 | 12 | 101.2 | GT3099-S60 | 0 | 60 | 270.8 |
| GT3099-P0810-S10 | 08 | 10 | 101.2 | GT3099-P0610-S54 | 06 | 54 | 270.8 |
| GT3099-P1010-S08 | 10 | 08 | 101.2 | GT3099-P1210-S48 | 12 | 48 | 270.8 |
| GT3099-P1210-S06 | 12 | 06 | 101.2 | GT3099-P0810-S42 | 18 | 42 | 270.8 |
| GT3099-P1410-S04 | 14 | 04 | 101.2 | GT3099-P2410-S36 | 24 | 36 | 270.8 |
| GT3099-P1610-S02 | 16 | 02 | 101.2 | GT3099-S72 | 0 | 72 | 316.4 |
| GT3099-S24 | 0 | 24 | 124 | GT3099-P0610-S66 | 06 | 66 | 316.4 |
| GT3099-P1610-S18 | 06 | 18 | 124 | GT3099-P1210-S60 | 12 | 60 | 316.4 |
| GT3099-P1210-S12 | 12 | 12 | 124 | GT3099-P2410-S48 | 24 | 48 | 316.4 |
| GT3099-P0810-S06 | 18 | 06 | 124 | GT3099-P3610-S36 | 36 | 36 | 316.4 |
| GT3099-P2410 | 24 | 0 | 124 | GT3099-S84 | 0 | 84 | 365 |
| GT3099-S30 | 0 | 30 | 151.8 | GT3099-P1210-S72 | 12 | 72 | 365 |

| | | | | | | | |
|------------------|----|----|-------|------------------|----|----|-------|
| GT3099-P0610-S20 | 06 | 24 | 151.8 | GT3099-P2410-S60 | 24 | 60 | 365 |
| GT3099-P1210-S18 | 12 | 18 | 151.8 | GT3099-S96 | 0 | 96 | 410.6 |

Note: 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.
10A,5A (signal) can combine freely in any way.It can be customized based on standard slip ring,please contact customer service for more detmails.

Specifications

| Electrical Data | | |
|-----------------------|---------------------------------|----------------|
| Parameter | Value | |
| | Power | Signal |
| Rated Voltage | 0~690VAC/VDC | 0~440VAC/VDC |
| Insulation Resistance | ≥1000MΩ/1000VDC | ≥1000MΩ/500VDC |
| Lead Wires | AWG16#Teflon | AWG22#Teflon |
| Lead Length | standard 300mm(adjustable) | |
| Insulation Strength | 1000VAC@50Hz, 60s | |
| Electrical Noise | <0.03Ω | |
| Mechanical Data | | |
| Parameter | Value | |
| Working Life | See Product Quality Level Table | |
| Rotating Speed | See Product Quality Level Table | |
| Working Temperature | -30°C~80°C | |
| Operating Humidity | 0~85% RH | |
| Contact Material | Precious Metal | |
| Housing Material | Aluminium Alloy | |
| Protection Grade | IP51 | |

Lead Wires Color Code

| Ring | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Color | BLK | RED | YLW | GRN | BLU | WHT | BLK | RED | YLW | GRN | BLU | WHT |

(6 wires for 1 group color, 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 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