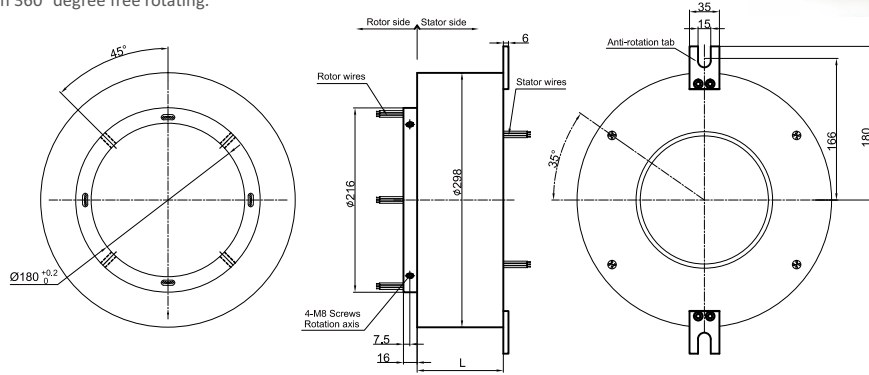
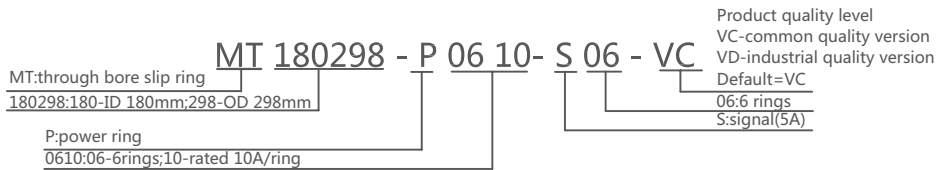


MT180298 Series

MT180298 series provides a 180mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 298mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications. MT180298 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 current when 360° degree free rotating.



Part# Explanation



Part# List

MT180298 Series Parts# List							
Part#	10A	Signal or 5A	Length-L (mm)	Part#	10A	Signal or 5A	Length-L (mm)
MT180298-S02	0	2	77	MT180298-S36	0	36	287
MT180298-P0210	2	0	77	MT180298-P0610-S30	6	30	287
MT180298-S03	0	3	83	MT180298-P1210-S24	12	24	287
MT180298-P0310	3	0	83	MT180298-P3610	36	0	287
MT180298-S06	0	6	101	MT180298-S42	0	42	323
MT180298-P0210-S04	2	4	101	MT180298-P0610-S36	6	36	323
MT180298-P0410-S02	4	2	101	MT180298-P1210-S30	12	30	323
MT180298-P0610	6	0	101	MT180298-S48	0	48	359
MT180298-S12	0	12	137	MT180298-P0610-S42	6	42	359
MT180298-P0210-S10	2	10	137	MT180298-P0910-S39	9	39	359
MT180298-P0310-S09	3	9	137	MT180298-P1210-S36	12	36	359
MT180298-P0610-S06	6	6	137	MT180298-P1810-S30	18	30	359
MT180298-P0810-S04	8	4	137	MT180298-P2410-S24	24	24	359
MT180298-P1010-S02	10	2	137	MT180298-S60	0	60	431
MT180298-P1210	12	0	137	MT180298-P0610-S54	6	54	431
MT180298-S18	0	18	173	MT180298-P0910-S51	9	51	431
MT180298-P0210-S16	2	16	173	MT180298-P1210-S48	12	48	431
MT180298-P0410-S14	4	14	173	MT180298-S72	0	72	509
MT180298-P0610-S12	6	12	173	MT180298-P0610-S66	6	66	509
MT180298-P0810-S10	8	10	173	MT180298-P1210-S60	12	60	509
MT180298-P1010-S08	10	8	173	MT180298-P2410-S48	24	48	509
MT180298-P1210-S06	12	6	173	MT180298-P3610-S36	36	36	509
MT180298-P1410-S04	14	4	173	MT180298-S84	0	84	581
MT180298-P1610-S02	16	2	173	MT180298-P1210-S72	12	72	581
MT180298-S24	0	24	209	MT180298-P2410-S60	24	60	581
MT180298-P0410-S20	4	20	209	MT180298-P3610-S48	36	48	581
MT180298-P0610-S18	6	18	209	MT180298-S96	0	96	653
MT180298-P1210-S12	12	12	209	MT180298-P1210-S84	12	84	653
MT180298-P1810-S06	18	6	209	MT180298-P2410-S72	24	72	653
MT180298-P2410	24	0	209	MT180298-P3610-S60	36	60	653
MT180298-S30	0	30	245	MT180298-P4210-S54	42	54	653
MT180298-P0610-S24	6	24	245	MT180298-S108	0	108	731
MT180298-P1210-S18	12	18	245	MT180298-P1210-S96	12	96	731
MT180298-P1810-S12	18	12	245	MT180298-P2410-S84	24	84	731
MT180298-P2410-S06	24	6	245	MT180298-P3610-S72	36	72	731
MT180298-P3010	30	0	245	MT180298-P4810-S60	48	60	731

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 details.

Specifications

Electrical Data			
Parameter	Value		
	Power	Signal	
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC	
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC	
Lead Wires	AWG16#Teflon	AWG22#Teflon	
Lead Length	Standard 300mm(adjustable)		
Insulation Strength	1000VAC@50Hz , 60s		
Electrical Noise	<0.01Ω		
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	See Product Quality Level Table		
Housing Material	Aluminium Alloy		
Torque	0.1N.m ; +0.03N.m/6rings		
Protection Grade	IP51		

Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	150RPM	10 Million Revs	Precious Metal
VD	250RPM	20 Million Revs	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	WHT	BLK	RED	YEL	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