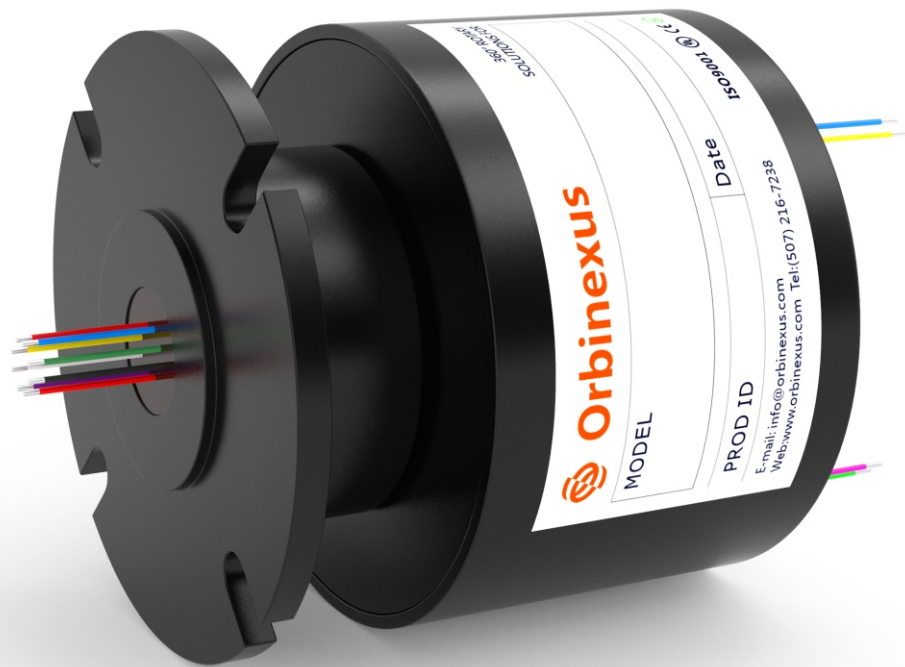


BFZ SERIES

Rotor Flange Slip Rings

BFZ series slip ring is a general name for the slip ring with rotor part connecting flange. This series slip ring, without through bore, is suitable for flange face mounting. Rotor wiring method has flange end face wiring and flange side face wiring. Because there is no hole in center, with the same OD(outer diameter) size, it can achieve more circuits and higher current. With ample inner space, this series product is easily to build with inner wiring and special shielding module, which is very stable and reliable. This series product is often used to customize sensitive signals or encoder signals.



BFZ Series Models

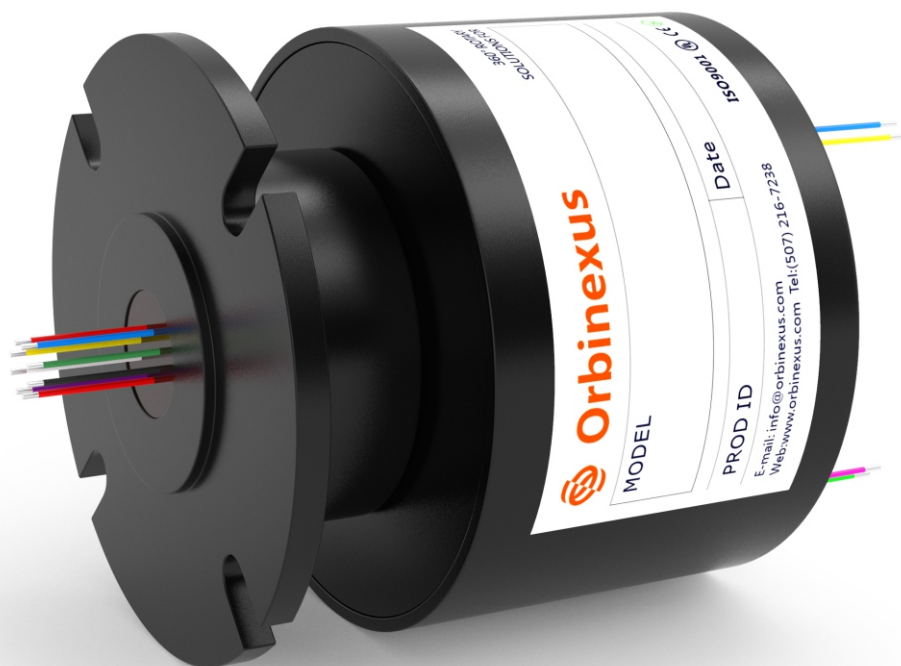
Model#	OD(mm)	Circuit Number(rings)	Power/each ring(A)	Voltage(VAC/VDC)
BFZ056	56	1~48	signal(2A)~10A	0~440
BFZ056F	56	1~48	signal(2A)~10A	0~440
BFZ086	86	1~72	signal(2A)~10A	0~690
BFZ086F	86	1~72	signal(2A)~10A	0~690
BFZ119	119	1~108	signal(2A)~10A	0~690
BFZ119F	119	1~108	signal(2A)~10A	0~690

60% of Orbinexus' s sales are customized solutions, please contact customer service for special requirements.

BFZ056 SERIES SLIP RINGS

BFZ056 series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 56mm. Rotor wiring method is flange end face wiring.

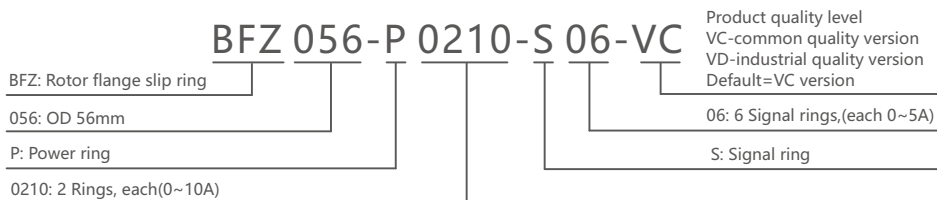
Product images



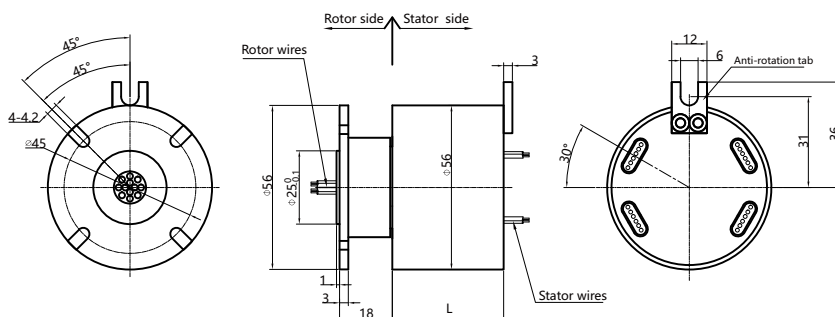
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BFZ056 series slip ring part# list

Parts#	10A	Signal 5A	Length(mm)
BFZ056-S02	0	2	26.8
BFZ056-P0210	2	0	26.8
BFZ056-S03	0	3	29.6
BFZ056-P0310	3	0	29.6
BFZ056-S06	0	6	38
BFZ056-P0210-S04	2	4	38
BFZ056-P0410-S02	4	2	38
BFZ056-P0610	6	0	38
BFZ056-S12	0	12	54.8
BFZ056-P0210-S10	2	10	54.8
BFZ056-P0310-S09	3	9	54.8
BFZ056-P0610-S06	6	6	54.8
BFZ056-P0810-S04	8	4	54.8
BFZ056-P1010-S02	10	2	54.8
BFZ056-P1210	12	0	54.8
BFZ056-S18	0	18	71.5
BFZ056-P0210-S16	2	16	71.5
BFZ056-P0410-S14	4	14	71.5

Parts#	10A	Signal 5A	Length(mm)
BFZ056-P0610-S12	6	12	71.5
BFZ056-P0810-S10	8	10	71.5
BFZ056-P1010-S08	10	8	71.5
BFZ056-P1210-S06	12	6	71.5
BFZ056-P1410-S04	14	4	71.5
BFZ056-P1610-S02	16	2	71.5
BFZ056-S24	0	24	88.4
BFZ056-P0410-S20	4	20	88.4
BFZ056-P0610-S18	6	18	88.4
BFZ056-P1210-S12	12	12	88.4
BFZ056-P1810-S06	18	6	88.4
BFZ056-P2410	24	0	88.4
BFZ056-S30	0	30	105.2
BFZ056-P0210-S28	2	28	105.2
BFZ056-P0410-S26	4	26	105.2
BFZ056-P0610-S24	6	24	105.2
BFZ056-S36	0	36	125
BFZ056-P0410-S32	4	32	125
BFZ056-P0610-S30	6	30	125
BFZ056-S42	0	42	158.6
BFZ056-P0410-S38	4	38	158.6
BFZ056-S48	0	48	158.6

Note: 1. N rings 10A in parallel can be used as 1 channel N*10A. For example: 2 rings 10A in parallel can be used as 1 channel 20A
 2. 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

Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	15 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-Gold

Mechanical Data

Project	Numerical 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 Materia	Aluminum alloy
Torque	0.1N.m; +0.03N.m/6rings
Protection Grade	IP51

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	AWG17#Teflon	AWG22#Teflon
Lead Length	Standard length 300mm(adjustable)	
Dielectric Strength	500VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	

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 to15 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 : Info@orbinexus.com

BFZ056F SERIES SLIP RINGS

BFZ056F series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 56mm. Rotor wiring method is flange side face wiring.

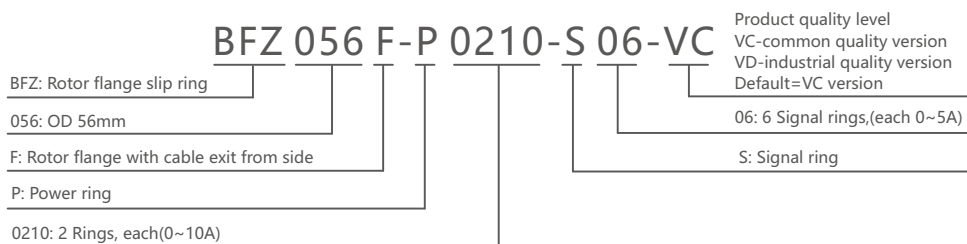
Product images



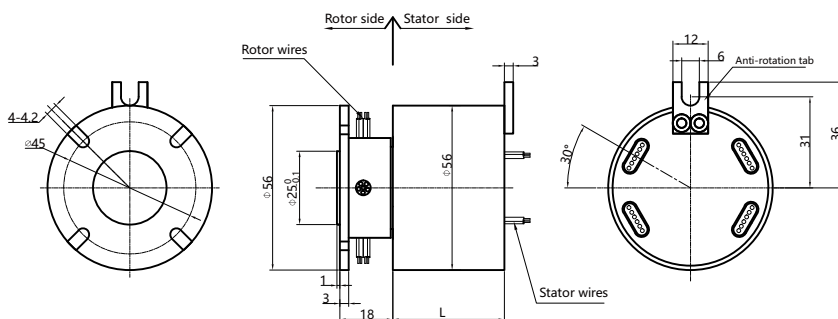
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BFZ056F series slip ring part# list

Parts#	10A	Signal 5A	Length(mm)
BFZ056F-S02	0	2	26.8
BFZ056F-P0210	2	0	26.8
BFZ056F-S03	0	3	29.6
BFZ056F-P0310	3	0	29.6
BFZ056F-S06	0	6	38
BFZ056F-P0210-S04	2	4	38
BFZ056F-P0410-S02	4	2	38
BFZ056F-P0610	6	0	38
BFZ056F-S12	0	12	54.8
BFZ056F-P0210-S10	2	10	54.8
BFZ056F-P0310-S09	3	9	54.8
BFZ056F-P0610-S06	6	6	54.8
BFZ056F-P0810-S04	8	4	54.8
BFZ056F-P1010-S02	10	2	54.8
BFZ056F-P1210	12	0	54.8
BFZ056F-S18	0	18	71.5
BFZ056F-P0210-S16	2	16	71.5
BFZ056F-P0410-S14	4	14	71.5

Parts#	10A	Signal 5A	Length(mm)
BFZ056F-P0610-S12	6	12	71.5
BFZ056F-P0810-S10	8	10	71.5
BFZ056F-P1010-S08	10	8	71.5
BFZ056F-P1210-S06	12	6	71.5
BFZ056F-P1410-S04	14	4	71.5
BFZ056F-P1610-S02	16	2	71.5
BFZ056F-S24	0	24	88.4
BFZ056F-P0410-S20	4	20	88.4
BFZ056F-P0610-S18	6	18	88.4
BFZ056F-P1210-S12	12	12	88.4
BFZ056F-P1810-S06	18	6	88.4
BFZ056F-P2410	24	0	88.4
BFZ056F-S30	0	30	105.2
BFZ056F-P0210-S28	2	28	105.2
BFZ056F-P0410-S26	4	26	105.2
BFZ056F-P0610-S24	6	24	105.2
BFZ056F-S36	0	36	125
BFZ056F-P0410-S32	4	32	125
BFZ056F-P0610-S30	6	30	125
BFZ056F-S42	0	42	158.6
BFZ056F-P0410-S38	4	38	158.6
BFZ056F-S48	0	48	158.6

Note: 1. N rings 10A in parallel can be used as 1 channel N*10A. For example: 2 rings 10A in parallel can be used as 1 channel 20A
 2. 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

Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	15 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-Gold

Mechanical Data

Project	Numerical 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 Materia	Aluminum alloy
Torque	0.1N.m; +0.03N.m/6rings
Protection Grade	IP51

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	AWG17#Teflon	AWG22#Teflon
Lead Length	Standard length 300mm(adjustable)	
Dielectric Strength	500VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	

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

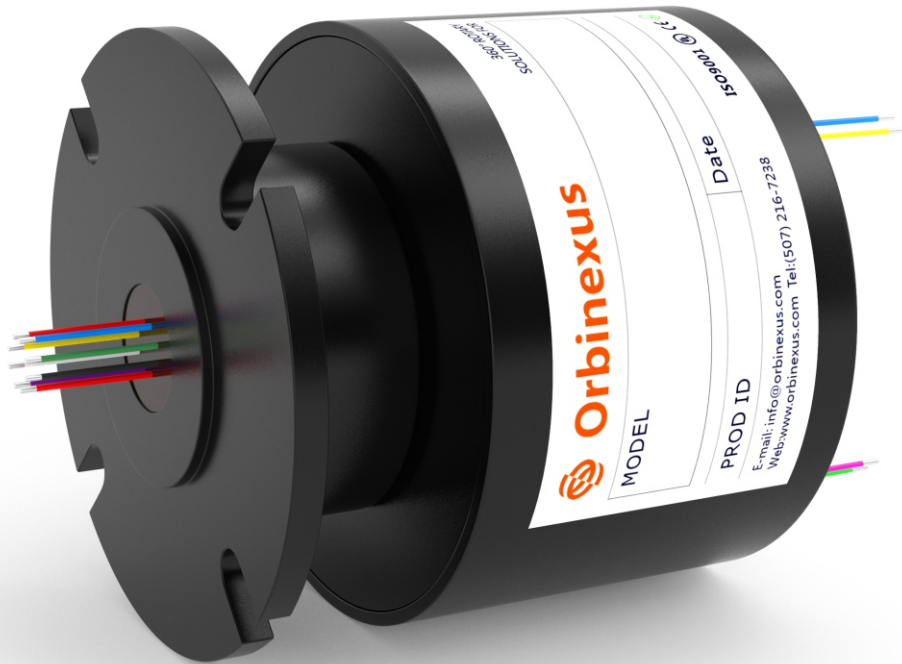
Note: Below special demands can be customized According , the delivery date will be extended 3 to15 days; also the cost will be increased 30%to 50% . Most of our basic parts are standard and modular which can save the cost and lead time.

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 : Info@orbinexus.com

BFZ086 SERIES SLIP RINGS

BFZ086 series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 86mm. Rotor wiring method is flange side face wiring.

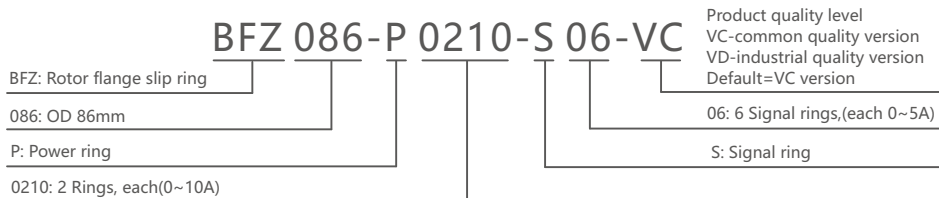
Product images



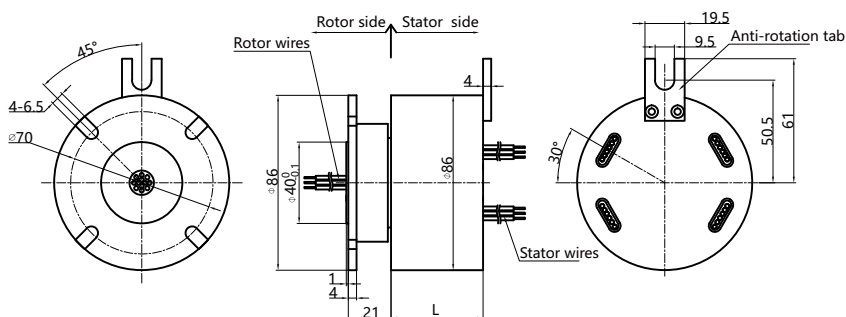
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BFZ086 series slip ring part# list

Parts#	10A	Signal 5A	Length(mm)
MZ086-S02	0	2	31.6
MZ086-P0210	2	0	31.6
MZ086-S03	0	3	35
MZ086-P0310	3	0	35
MZ086-S06	0	6	45.2
MZ086-P0210-S04	2	4	45.2
MZ086-P0410-S02	4	2	45.2
MZ086-P0610	6	0	45.2
MZ086-S12	0	12	65.6
MZ086-P0210-S10	2	10	65.6
MZ086-P0310-S09	3	9	65.6
MZ086-P0610-S06	6	6	65.6
MZ086-P0810-S04	8	4	65.6
MZ086-P1010-S02	10	2	65.6
MZ086-P1210	12	0	65.6
MZ086-S18	0	18	86
MZ086-P0210-S16	2	16	86
MZ086-P0410-S14	4	14	86

Parts#	10A	Signal 5A	Length(mm)
MZ086-P0610-S12	6	12	86
MZ086-P0810-S10	8	10	86
MZ086-P1010-S08	10	8	86
MZ086-P1210-S06	12	6	86
MZ086-P1410-S04	14	4	86
MZ086-P1610-S02	16	2	86
MZ086-S24	0	24	106.4
MZ086-P0410-S20	4	20	106.4
MZ086-P0610-S18	6	18	106.4
MZ086-P1210-S12	12	12	106.4
MZ086-P1810-S06	18	6	106.4
MZ086-P2410	24	0	106.4
MZ086-S30	0	30	126.8
MZ086-P0610-S24	6	24	126.8
MZ086-P1210-S18	12	18	126.8
MZ086-P1810-S12	18	12	126.8
MZ086-P2410-S06	24	6	126.8
MZ086-P3010	30	0	126.8
MZ086-S36	0	36	150
MZ086-P0610-S30	6	30	150
MZ086-P1210-S24	12	24	150
MZ086-P3610	36	0	150
MZ086-S42	0	42	170.6
MZ086-P0610-S36	6	36	170.6
MZ086-P1210-S30	12	30	170.6
MZ086-S48	0	48	193.2
MZ086-P0610-S42	6	42	193.2
MZ086-P0910-S39	9	39	193.2
MZ086-P1210-S36	12	36	193.2
MZ086-P1810-S30	18	30	193.2
MZ086-P2410-S24	24	24	193.2
MZ086-S60	0	60	234
MZ086-P0610-S54	6	54	234
MZ086-P0910-S51	9	51	234
MZ086-P1210-S48	12	48	234
MZ086-S72	0	72	277.8

Note: 1. N rings 10A in parallel can be used as 1 channel N*10A. For example: 2 rings 10A in parallel can be used as 1 channel 20A

2. 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

Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	15 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-Gold

Mechanical Data

Project	Numerical 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 Materia	Aluminum alloy
Torque	0.1N.m; +0.03N.m/6rings
Protection Grade	IP51

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/1000VDC	≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard length 300mm(adjustable)	
Dielectric Strength	1000VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	

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 to15 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 : Info@orbinexus.com

BFZ086F SERIES SLIP RINGS

BFZ086F series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 86mm. Rotor wiring method is flange side face wiring.

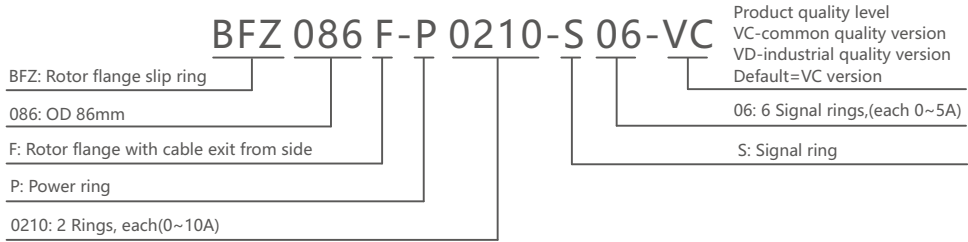
Product images



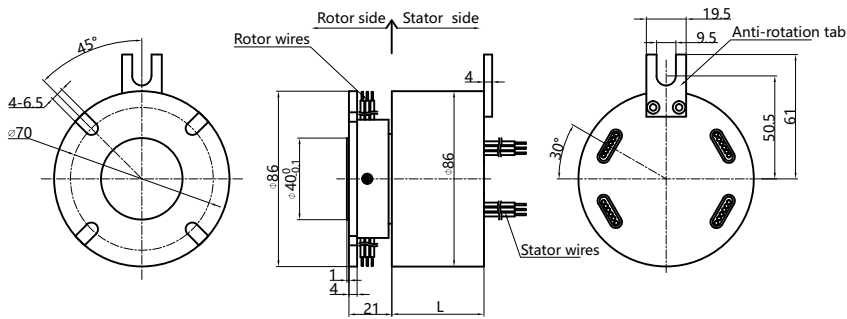
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BFZ086F series slip ring part# list

Parts#	10A	Signal 5A	Length(mm)
BFZ086F-S02	0	2	31.6
BFZ086F-P0210	2	0	31.6
BFZ086F-S03	0	3	35
BFZ086F-P0310	3	0	35
BFZ086F-S06	0	6	45.2
BFZ086F-P0210-S04	2	4	45.2
BFZ086F-P0410-S02	4	2	45.2
BFZ086F-P0610	6	0	45.2
BFZ086F-S12	0	12	65.6
BFZ086F-P0210-S10	2	10	65.6
BFZ086F-P0310-S09	3	9	65.6
BFZ086F-P0610-S06	6	6	65.6
BFZ086F-P0810-S04	8	4	65.6
BFZ086F-P1010-S02	10	2	65.6
BFZ086F-P1210	12	0	65.6
BFZ086F-S18	0	18	86
BFZ086F-P0210-S16	2	16	86
BFZ086F-P0410-S14	4	14	86

Parts#	10A	Signal 5A	Length(mm)
BFZ086F-P0610-S12	6	12	86
BFZ086F-P0810-S10	8	10	86
BFZ086F-P1010-S08	10	8	86
BFZ086F-P1210-S06	12	6	86
BFZ086F-P1410-S04	14	4	86
BFZ086F-P1610-S02	16	2	86
BFZ086F-S24	0	24	106.4
BFZ086F-P0410-S20	4	20	106.4
BFZ086F-P0610-S18	6	18	106.4
BFZ086F-P1210-S12	12	12	106.4
BFZ086F-P1810-S06	18	6	106.4
BFZ086F-P2410	24	0	106.4
BFZ086F-S30	0	30	126.8
BFZ086F-P0610-S24	6	24	126.8
BFZ086F-P1210-S18	12	18	126.8
BFZ086F-P1810-S12	18	12	126.8
BFZ086F-P2410-S06	24	6	126.8
BFZ086F-P3010	30	0	126.8
BFZ086F-S36	0	36	150
BFZ086F-P0610-S30	6	30	150
BFZ086F-P1210-S24	12	24	150
BFZ086F-P3610	36	0	150
BFZ086F-S42	0	42	170.6
BFZ086F-P0610-S36	6	36	170.6
BFZ086F-P1210-S30	12	30	170.6
BFZ086F-S48	0	48	193.2
BFZ086F-P0610-S42	6	42	193.2
BFZ086F-P0910-S39	9	39	193.2
BFZ086F-P1210-S36	12	36	193.2
BFZ086F-P1810-S30	18	30	193.2
BFZ086F-P2410-S24	24	24	193.2
BFZ086F-S60	0	60	234
BFZ086F-P0610-S54	6	54	234
BFZ086F-P0910-S51	9	51	234
BFZ086F-P1210-S48	12	48	234
BFZ086F-S72	0	72	277.8

Note: 1. N rings 10A in parallel can be used as 1 channel N*10A. For example: 2 rings 10A in parallel can be used as 1 channel 20A

2. 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

Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	15 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-Gold

Mechanical Data

Project	Numerical 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 Materia	Aluminum alloy
Torque	0.1N.m; +0.03N.m/6rings
Protection Grade	IP51

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/1000VDC	≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard length 300mm(adjustable)	
Dielectric Strength	1000VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	

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.

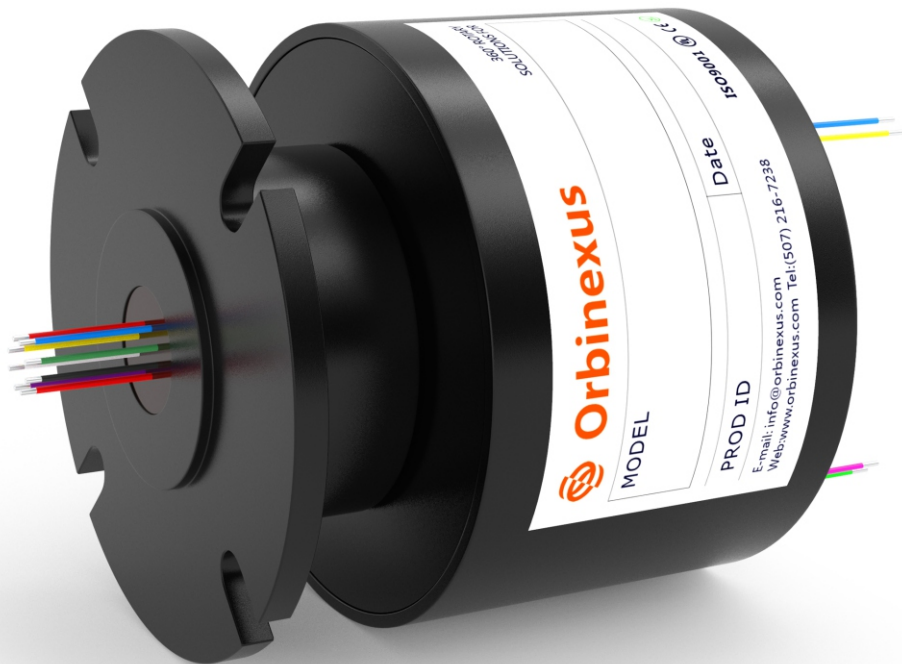
1. Cable exit way and cable length can be customized for both rotor and stator.
2. Because of the structure limitation, length/height/OD can be customized on your request.
3. Support current or signal up to 200 rings.
4. Aviation plug, terminal and heat-shrink tube are optional.
5. Hybrid slip ring for 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 : Info@orbinexus.com

BFZ119 SERIES SLIP RINGS

BFZ119 series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 119mm. Rotor wiring method is flange side face wiring.

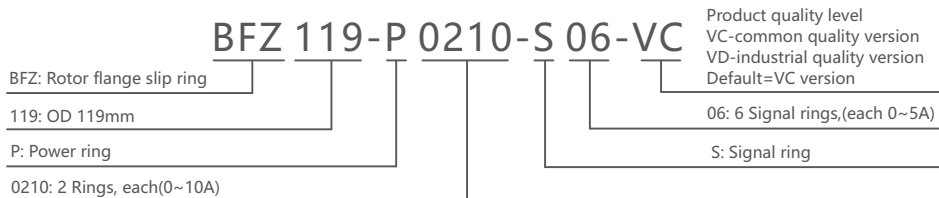
Product images



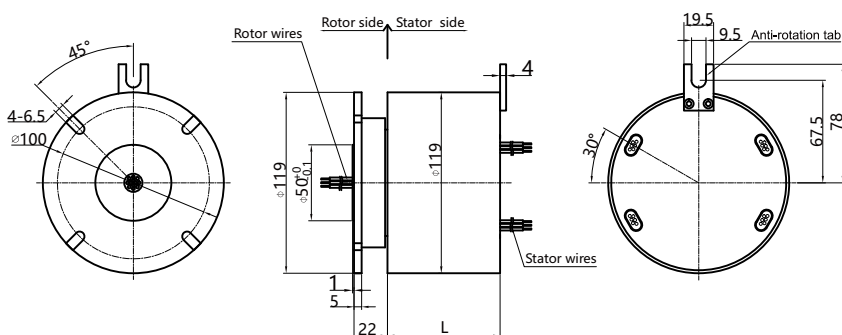
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BFZ119 series slip ring part# list

Parts#	10A	Signal 5A	Length(mm)
MZ119-S02	0	2	36
MZ119-P0210	2	0	36
MZ119-S03	0	3	39.8
MZ119-P0310	3	0	39.8
MZ119-S06	0	6	51.2
MZ119-P0210-S04	2	4	51.2
MZ119-P0410-S02	4	2	51.2
MZ119-P0610	6	0	51.2
MZ119-S12	0	12	74
MZ119-P0210-S10	2	10	74
MZ119-P0310-S09	3	9	74
MZ119-P0610-S06	6	6	74
MZ119-P0810-S04	8	4	74
MZ119-P1010-S02	10	2	74
MZ119-P1210	12	0	74
MZ119-S18	0	18	96.8
MZ119-P0210-S16	2	16	96.8
MZ119-P0410-S14	4	14	96.8

Parts#	10A	Signal 5A	Length(mm)
MZ119-P0610-S12	6	12	96.8
MZ119-P0810-S10	8	10	96.8
MZ119-P1010-S08	10	8	96.8
MZ119-P1210-S06	12	6	96.8
MZ119-P1410-S04	14	4	96.8
MZ119-P1610-S02	16	2	96.8
MZ119-S24	0	24	119.6
MZ119-P0410-S20	4	20	119.6
MZ119-P0610-S18	6	18	119.6
MZ119-P1210-S12	12	12	119.6
MZ119-P1810-S06	18	6	119.6
MZ119-P2410	24	0	119.6
MZ119-S30	0	30	142.4
MZ119-P0610-S24	6	24	142.4
MZ119-P1210-S18	12	18	142.4
MZ119-P1810-S12	18	12	142.4
MZ119-P2410-S06	24	6	142.4
MZ119-P3010	30	0	142.4
MZ119-S36	0	36	169.2
MZ119-P0610-S30	6	30	169.2
MZ119-P1210-S24	12	24	169.2
MZ119-P3610	36	0	169.2
MZ119-S42	0	42	217.4
MZ119-P0610-S36	6	36	217.4
MZ119-P1210-S30	12	30	217.4
MZ119-S48	0	48	217.4
MZ119-P0610-S42	6	42	217.4
MZ119-P0910-S39	9	39	217.4
MZ119-P1210-S36	12	36	217.4
MZ119-P1810-S30	18	30	217.4
MZ119-P2410-S24	24	24	217.4
MZ119-S60	0	60	263
MZ119-P0610-S54	6	54	263
MZ119-P0910-S51	9	51	263
MZ119-P1210-S48	12	48	263
MZ119-S72	0	72	312.6
MZ119-P0610-S66	6	66	312.6
MZ119-P1210-S60	12	60	312.6
MZ119-P2410-S48	24	48	312.6
MZ119-P3610-S36	36	36	312.6
MZ119-S84	0	84	368

Parts#	10A	Signal 5A	Length(mm)
MZ119-S02	0	2	36
MZ119-P0210	2	0	36
MZ119-S03	0	3	39.8
MZ119-P0310	3	0	39.8
MZ119-S06	0	6	51.2
MZ119-P0210-S04	2	4	51.2
MZ119-P0410-S02	4	2	51.2
MZ119-P0610	6	0	51.2
MZ119-S12	0	12	74
MZ119-P0210-S10	2	10	74
MZ119-P0310-S09	3	9	74
MZ119-P0610-S06	6	6	74
MZ119-P0810-S04	8	4	74
MZ119-P1010-S02	10	2	74
MZ119-P1210	12	0	74
MZ119-S18	0	18	96.8
MZ119-P0210-S16	2	16	96.8
MZ119-P0410-S14	4	14	96.8

Note: 1. N rings 10A in parallel can be used as 1 channel N*10A. For example: 2 rings 10A in parallel can be used as 1 channel 20A
 2. 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

Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	250RPM	15 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-Gold

Mechanical Data

Project	Numerical 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 Materia	Aluminum alloy
Torque	0.1N.m; +0.03N.m/6rings
Protection Grade	IP51

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/1000VDC	≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard length 300mm(adjustable)	
Dielectric Strength	1000VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	

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 to15 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 : Info@orbinexus.com

BFZ119F SERIES SLIP RINGS

BFZ119F series slip ring is a general name for those rotor flange slip rings with OD(outer diameter) 119mm. Rotor wiring method is flange side face wiring.

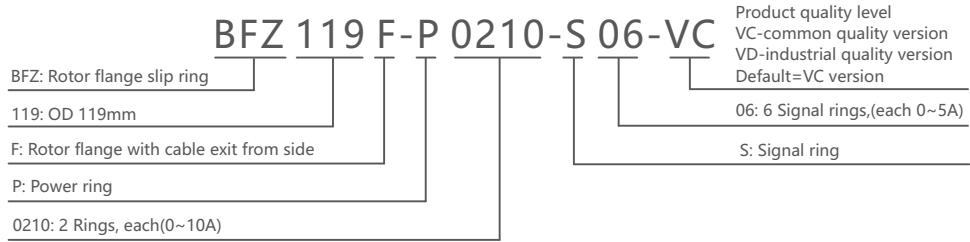
Product images



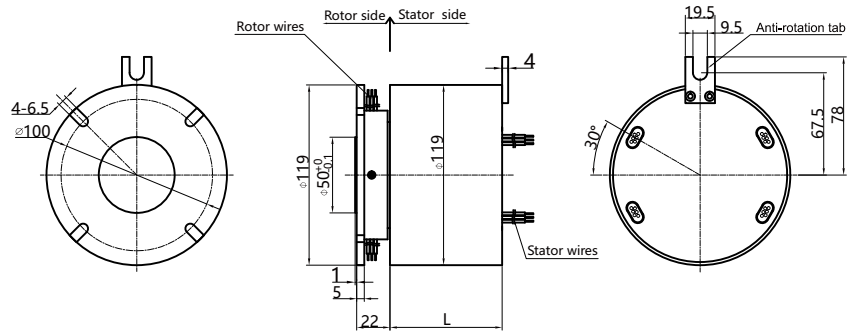
The pictures are for reference only

If there are changes in the appearance and size of the product, the actual product should prevail.

Part# Explanation



Dimensions



BFZ119 series slip ring part# list

Parts#	10A	Signal 5A	Length(mm)
MZ119F-S02	0	2	36
MZ119F-P0210	2	0	36
MZ119F-S03	0	3	39.8
MZ119F-P0310	3	0	39.8
MZ119F-S06	0	6	51.2
MZ119F-P0210-S04	2	4	51.2
MZ119F-P0410-S02	4	2	51.2
MZ119F-P0610	6	0	51.2
MZ119F-S12	0	12	74
MZ119F-P0210-S10	2	10	74
MZ119F-P0310-S09	3	9	74
MZ119F-P0610-S06	6	6	74
MZ119F-P0810-S04	8	4	74
MZ119F-P1010-S02	10	2	74
MZ119F-P1210	12	0	74
MZ119F-S18	0	18	96.8
MZ119F-P0210-S16	2	16	96.8
MZ119F-P0410-S14	4	14	96.8

Parts#	10A	Signal 5A	Length(mm)
MZ119F-P0610-S12	6	12	96.8
MZ119F-P0810-S10	8	10	96.8
MZ119F-P1010-S08	10	8	96.8
MZ119F-P1210-S06	12	6	96.8
MZ119F-P1410-S04	14	4	96.8
MZ119F-P1610-S02	16	2	96.8
MZ119F-S24	0	24	119.6
MZ119F-P0410-S20	4	20	119.6
MZ119F-P0610-S18	6	18	119.6
MZ119F-P1210-S12	12	12	119.6
MZ119F-P1810-S06	18	6	119.6
MZ119F-P2410	24	0	119.6
MZ119F-S30	0	30	142.4
MZ119F-P0610-S24	6	24	142.4
MZ119F-P1210-S18	12	18	142.4
MZ119F-P1810-S12	18	12	142.4
MZ119F-P2410-S06	24	6	142.4
MZ119F-P3010	30	0	142.4
MZ119F-S36	0	36	169.2
MZ119F-P0610-S30	6	30	169.2
MZ119F-P1210-S24	12	24	169.2
MZ119F-P3610	36	0	169.2
MZ119F-S42	0	42	217.4
MZ119F-P0610-S36	6	36	217.4
MZ119F-P1210-S30	12	30	217.4
MZ119F-S48	0	48	217.4
MZ119F-P0610-S42	6	42	217.4
MZ119F-P0910-S39	9	39	217.4
MZ119F-P1210-S36	12	36	217.4
MZ119F-P1810-S30	18	30	217.4
MZ119F-P2410-S24	24	24	217.4
MZ119F-S60	0	60	263
MZ119F-P0610-S54	6	54	263
MZ119F-P0910-S51	9	51	263
MZ119F-P1210-S48	12	48	263
MZ119F-S72	0	72	312.6
MZ119F-P0610-S66	6	66	312.6
MZ119F-P1210-S60	12	60	312.6
MZ119F-P2410-S48	24	48	312.6
MZ119F-P3610-S36	36	36	312.6
MZ119F-S84	0	84	368

Parts#	10A	Signal 5A	Length(mm)
MZ119F-P1210-S72	12	72	368
MZ119F-P2410-S60	24	60	368
MZ119F-P3610-S48	36	48	368
MZ119F-S96	0	96	413.6
MZ119F-P1210-S84	12	84	413.6
MZ119F-P2410-S72	24	72	413.6
MZ119F-P3610-S60	36	60	413.6
MZ119F-P4210-S54	42	54	413.6
MZ119F-S108	0	108	463.2
MZ119F-P1210-S96	12	96	463.2
MZ119F-P2410-S84	24	84	463.2
MZ119F-P3610-S72	36	72	463.2
MZ119F-P4810-S60	48	60	463.2

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Product Quality Level Table

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VC	250RPM	15 Million Revs	Precious Metal
VD	600RPM	80 Million Revs	Gold-Gold

Mechanical Data

Project	Numerical 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 Materia	Aluminum alloy
Torque	0.1N.m; +0.03N.m/6rings
Protection Grade	IP51

Electrical Data

Project	Numerical value	Signal
Rated Voltage	0~690VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/1000VDC	≥1000MΩ/500VDC
Lead Wires	AWG16#Teflon	AWG22#Teflon
Lead Length	Standard length 300mm(adjustable)	
Dielectric Strength	1000VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	

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

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15. Optional for underwater IP65, IP68.
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Technical support : Info@orbinexus.com