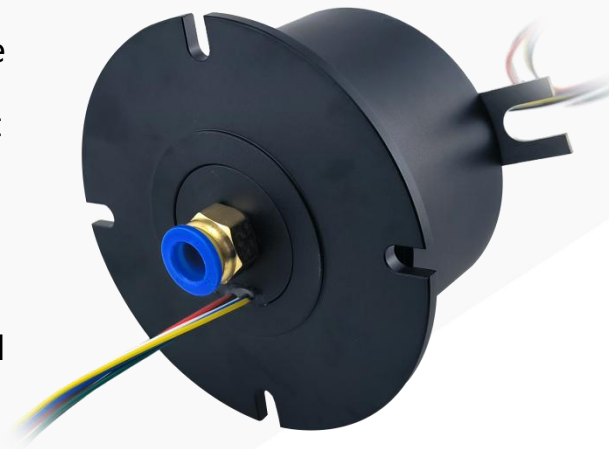


Single channel series gas electric slip ring

The Q series gas-electric slip ring is a high-performance integrated rotary joint designed for rotating equipment that needs to synchronously transmit power, signals and gas/liquid media. This series of products adopts a modular design, supports multi-channel electrical and gas-liquid mixed transmission, and has high sealing, low resistance conduction and long life. It can effectively solve the cable winding and medium leakage problems in complex rotating systems and is suitable for high-precision fields such as industrial automation, medical equipment, and new energy equipment.



Ordering Model Description

Q1P	03	-	6P	05
Q : Q means Q series gas-electric slip ring. 1P: 1P means 1 channel.	03: 03 indicates the interface size, G3/8" air pipe interface 02: indicates G1/4" air pipe interface.		6P: 6P means there are 6 circuit	05: means it can pass 5A current, 10: means it can pass 10A current.

Standard Model Selection Table

Model	Gas channel	Circuit Channel	Current	Outer diameter
Q1P02-6P05 (10)	1 in 1 out	6-way	5A/10A	56mm
Q1P02-12P05 (10)	1 in 1 out	12-way	5A/10A	56mm
Q1P02-18P05 (10)	1 in 1 out	18-way	5A/10A	56mm
Q1P02-24P05 (10)	1 in 1 out	24-way	5A/10A	56mm
Q1P03-6P05 (10)	1 in 1 out	6-way	5A/10A	86mm
Q1P03-12P05 (10)	1 in 1 out	12-way	5A/10A	86mm
Q1P03-18P05 (10)	1 in 1 out	18-way	5A/10A	86mm
Q1P03-24P05 (10)	1 in 1 out	24-way	5A/10A	86mm

Technical Specifications

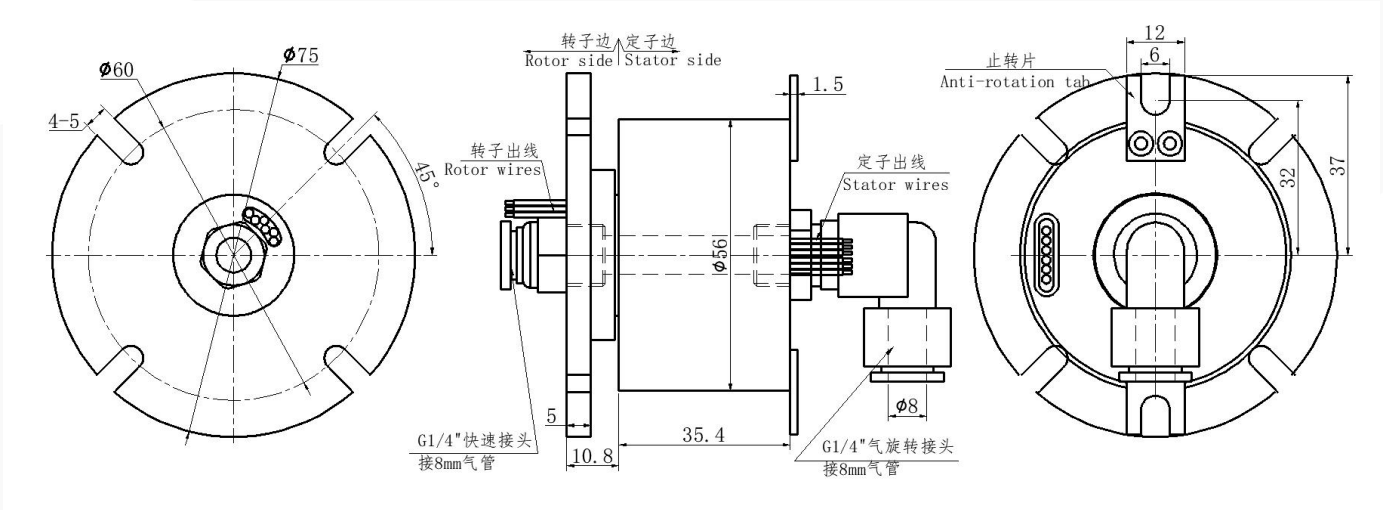
Electrical parameters	Parameter Value	Gas parameters	Parameter Value
Dielectric strength	500VCA@50Hz, 60s	Number of trachea	1 in 1 out
Insulation resistance	≥ 500MΩ/300VDC	Pressure	-80KPa-0.8MPaor vacuum
Dynamic resistance change value	< 10mΩ	Rotational torque	<0.3N.m
Rated voltage	0 ~ 440VDC/VAC	Rotation speed	250rpm
Wire Specifications	AWG22 Teflon wire (depending on the specific current)	Shell material	Aluminum Alloy
Wire length	Default 250mm (Customizable)	Temperature	-30℃ ~ +80℃
Contact material	Precious metal contacts	Operating humidity	0 ~ 85%RH
Protection level	IP51		

Color code table for each loop conductor

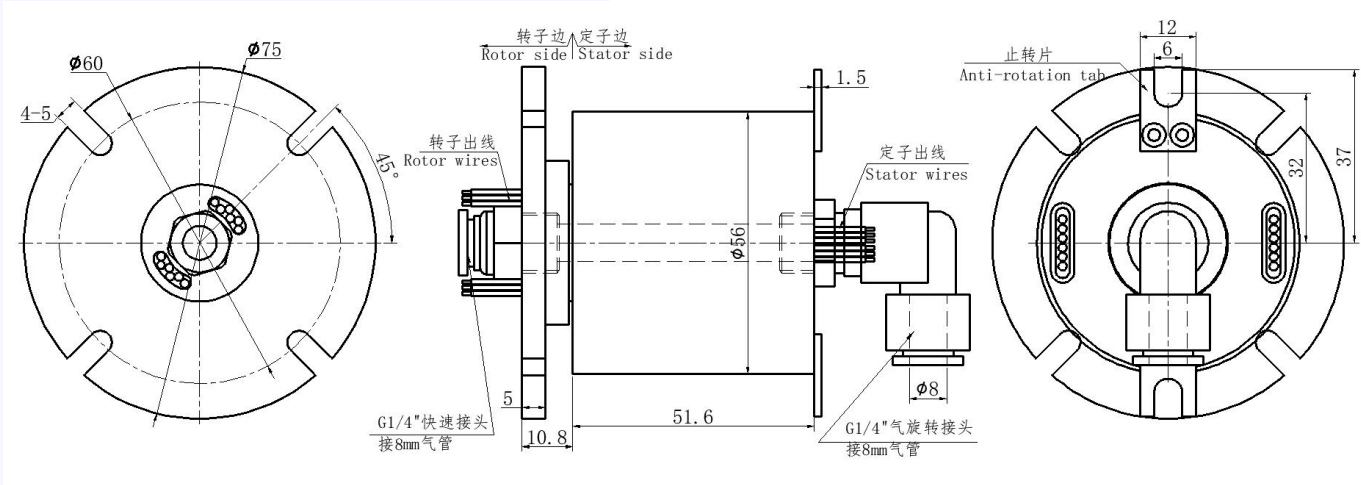
Loop	1	2	3	4	5	6	7	8	9	10	11	12
Color	black	brown	red	orange	yellow	green	blue	Purple	grey	White	White and red	Light blue

Note: 12 colors form a group, loop 1 to 12, the next group repeats the first 12 colors, each group is distinguished by a number tube as the group number

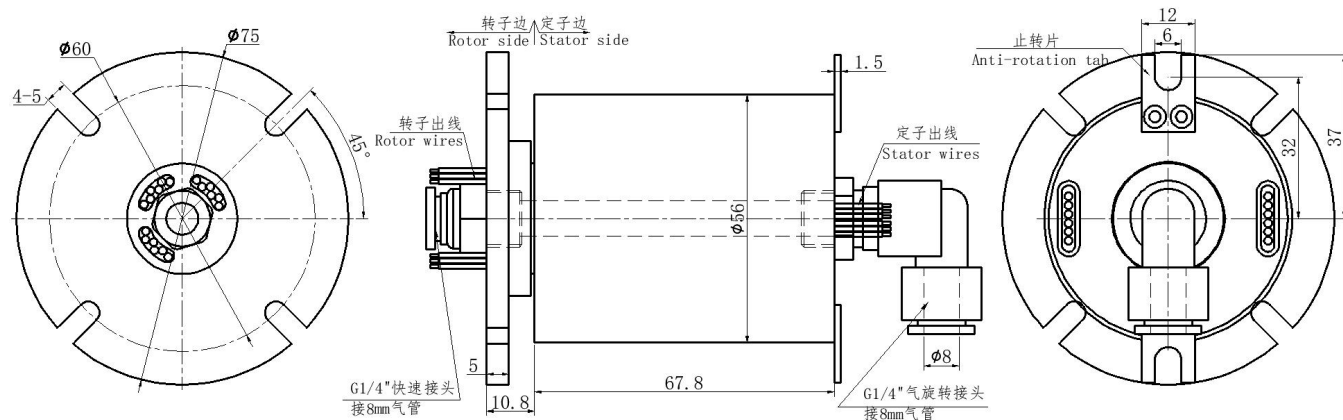
Product drawing size



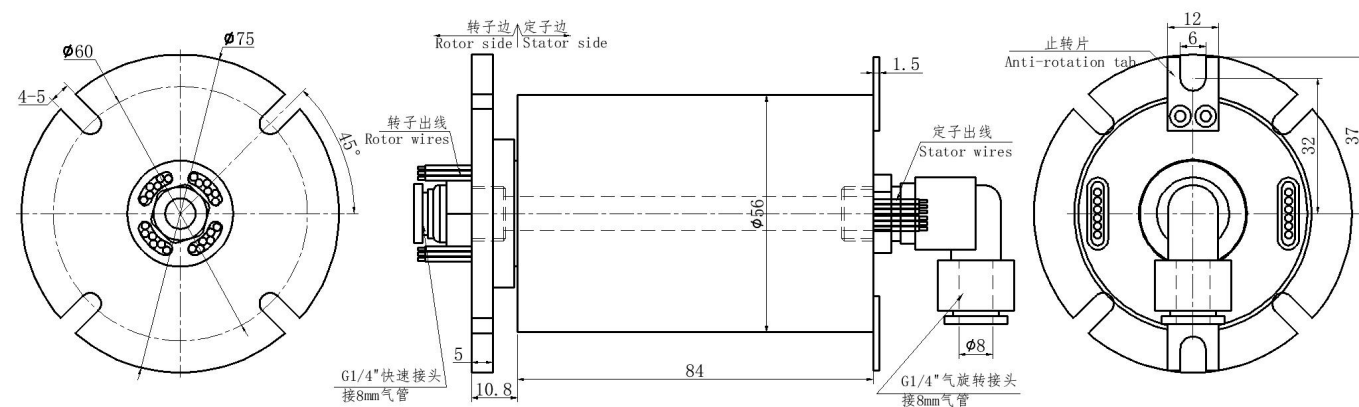
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P02-6P05 (10)	1	G1/4"	6-8mm	-80KPa-0.8MPa	6-way	5A/10A



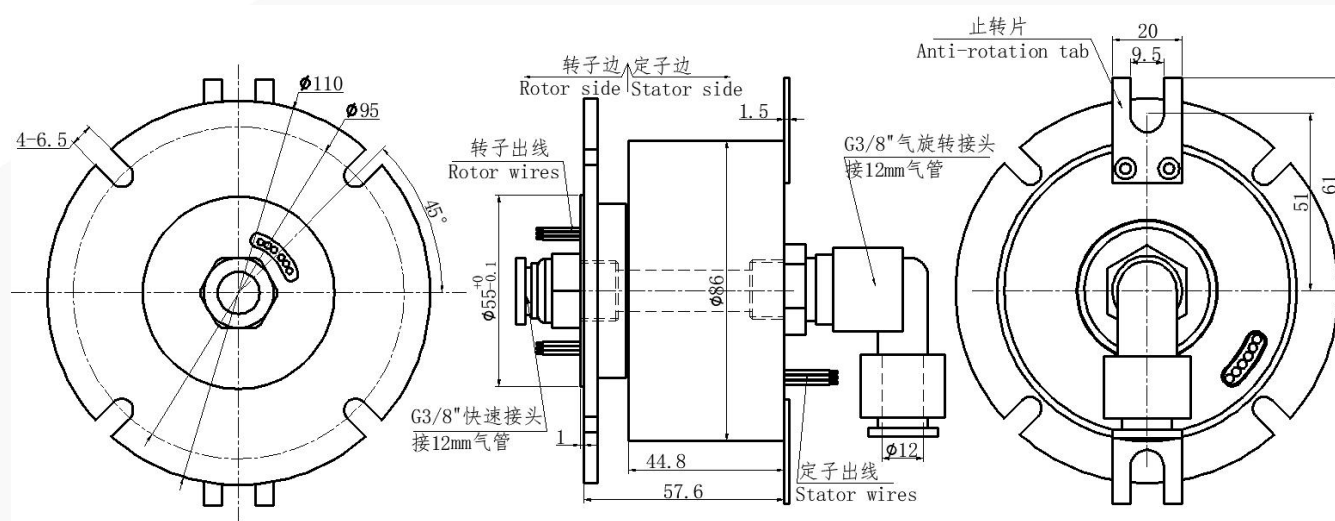
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P02-12P05 (10)	1	G1/4"	6-8mm	-80KPa-0.8MPa	12-way	5A/10A



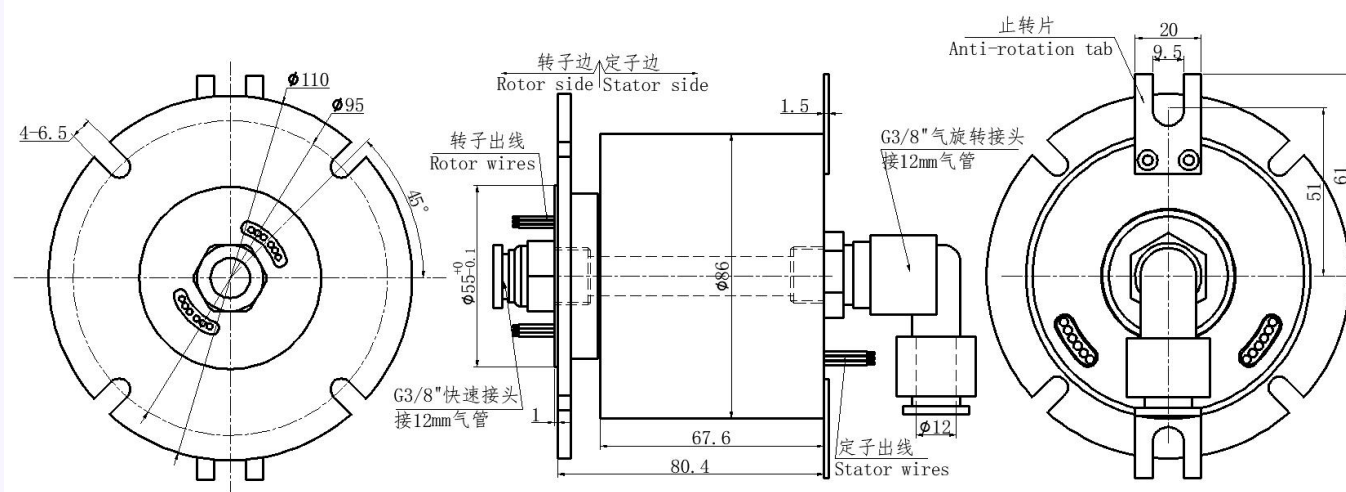
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P02-18P05 (10)	1	G1/4"	6-8mm	-80KPa-0.8MPa	18-way	5A/10A



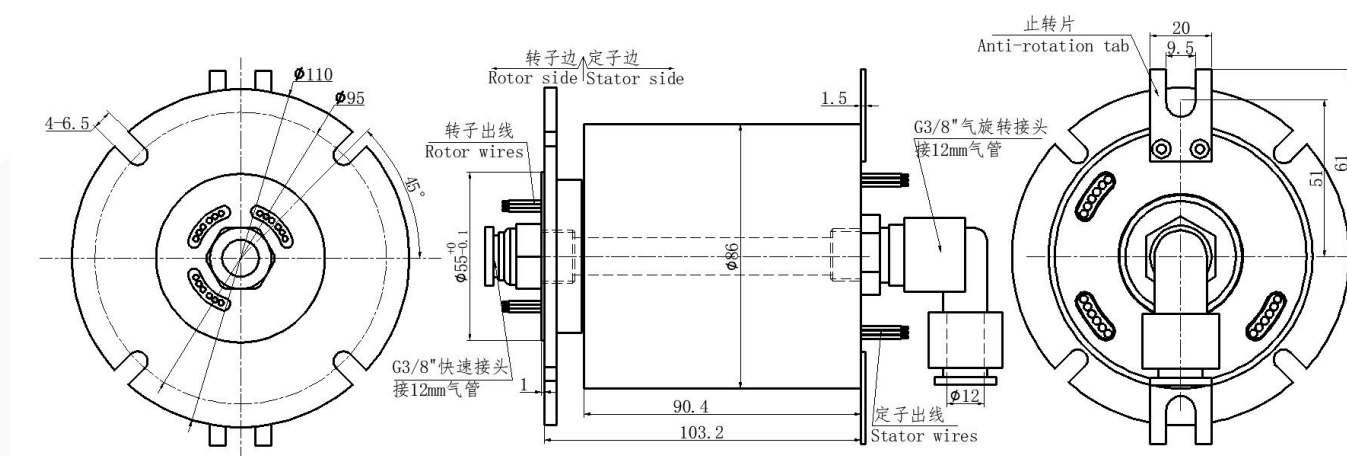
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P02-24P05 (10)	1	G1/4"	6-8mm	-80KPa-0.8MPa	24-way	5A/10A



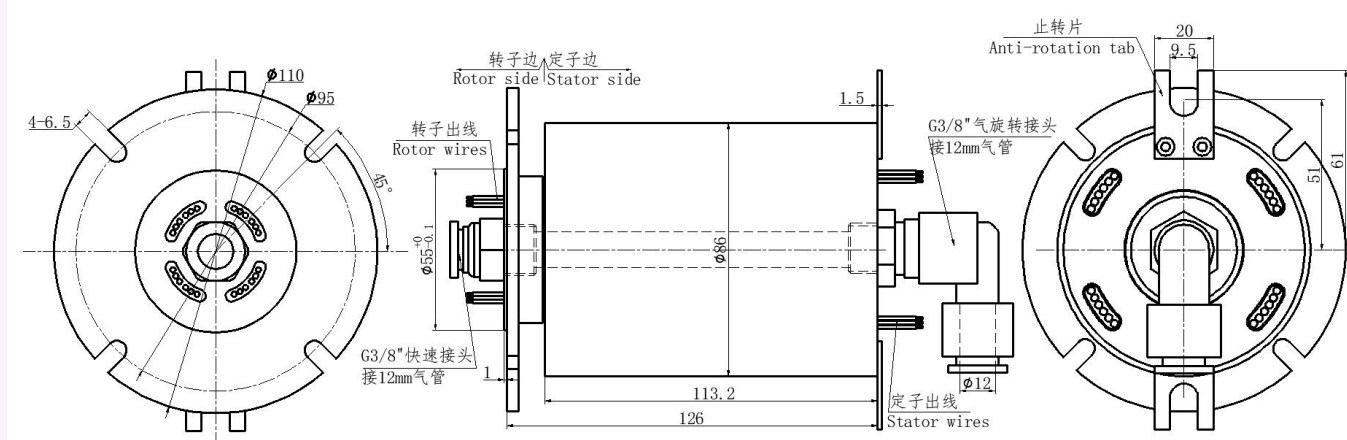
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P03-6P05 (10)	1	G3/8"	10-12mm	-80KPa-0.8MPa	6-way	5A/10A



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P03-12P05 (10)	1	G3/8"	10-12mm	-80KPa-0.8MPa	12-way	5A/10A



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P03-18P05 (10)	1	G3/8"	10-12mm	-80KPa-0.8MPa	18-way	5A/10A



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current
Q1P03-24P05 (10)	1	G3/8"	10-12mm	-80KPa-0.8MPa	24-way	5A/10A

Product Customization Options

Mechanical structure	The rotor and stator lead-out method and lead-out length can be requested
	The inner diameter, outer diameter and length of the product can be requested
	The outlet wires can be connected to aviation plugs, terminals, heat shrink tubing, etc.
	The material used for the housing can be requested, such as stainless steel, insulating material, etc.
Usage Environment	High temperature slip rings for use in high temperature environments
	Waterproof slip rings are required in dust and water proof environments. The protection level can be IP65 or IP68.
	High-speed slip rings used in high-speed equipment, with speeds up to 5000rpm
Electrical properties	Any number of slip rings can be customized as required, with a maximum of 200 lines.
	Various types of private server system signals, power lines, encoder lines and other hybrid slip rings can be customized
	Various types of high-speed data transmission slip rings can be customized, such as Ethernet, USB, RS232, CanBus and other industrial buses
	High current slip rings can be customized according to the current size
	High voltage slip rings can be customized according to voltage
Gas slip ring parameters	Customizable gas, liquid, oil, high pressure gas slip rings
	The outer diameter of the slip ring, the size of the center hole, the size of the air pipe and other parameters can be customized
	The air hole parameters such as air inlet and outlet mode, air inlet and outlet position can be customized
	The torque can be adjusted according to the needs

2 channel series gas electric slip ring

The Q series gas-electric slip ring is a high-performance integrated rotary joint designed for rotating equipment that needs to synchronously transmit power, signals and gas/liquid media. This series of products adopts a modular design, supports multi-channel electrical and gas-liquid mixed transmission, and has high sealing, low resistance conduction and long life. It can effectively solve the cable winding and medium leakage problems in complex rotating systems and is suitable for high-precision fields such as industrial automation, medical equipment, and new energy equipment.



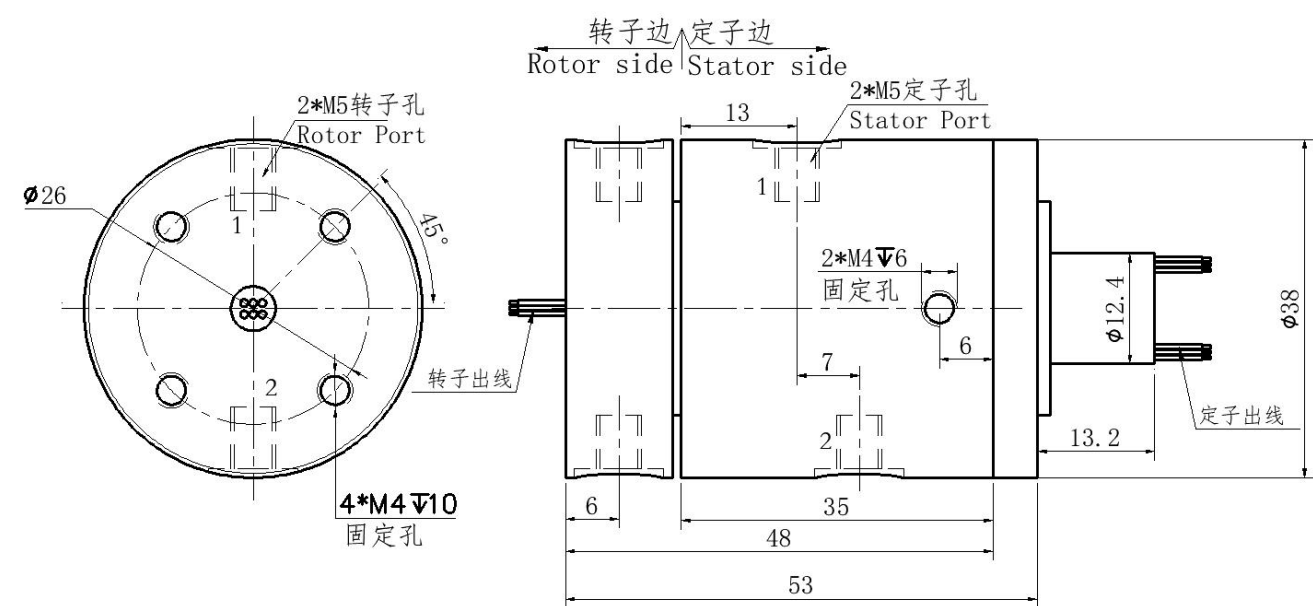
Ordering Model Description

Q2P	M5 - 6P	S
Q : Q means Q series gas-electric slip ring. 2P: 2P means 2 channel.	M5: M5 indicates the interface size, M5 air pipe interface. 0 1: indicates G1/8" interface	S: Indicates that it can pass 2A of current. 6P: 6P means there are 6 circuit

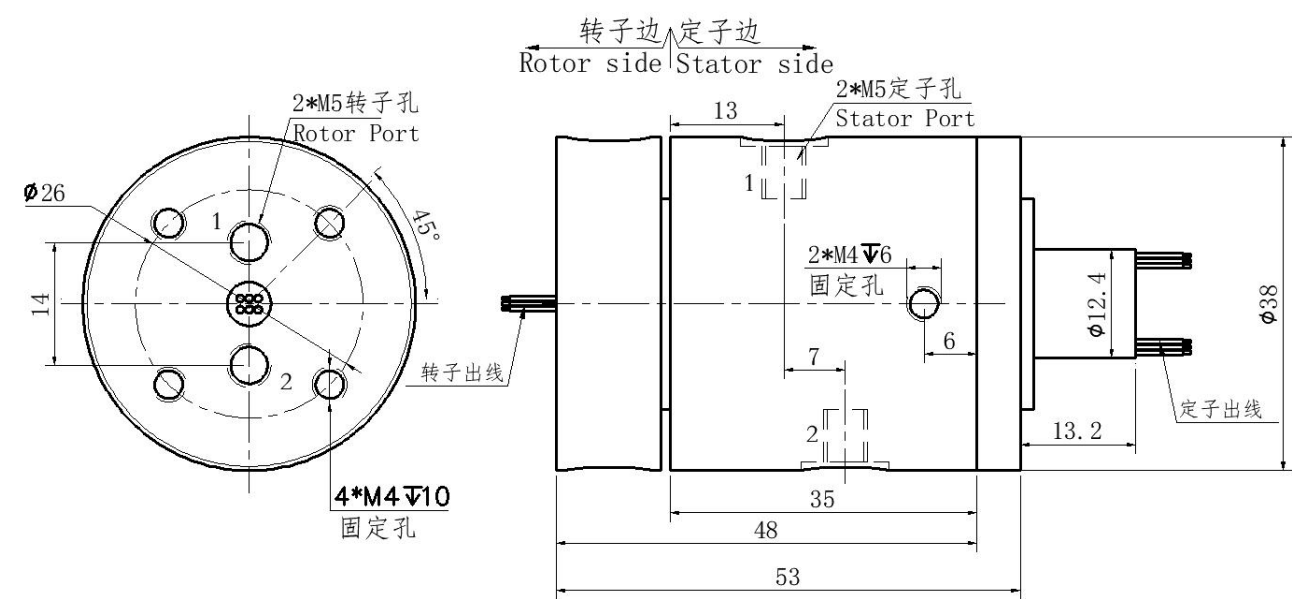
Standard Model Selection Table

Model	Gas channel	Circuit Channel	Current	Outer diameter	Length
Q2PM5-6PS	2 in 2 out	6-way	2A	38mm	66.2mm
Q2PM5-12PS	2 in 2 out	12-way	2A	38mm	72.8mm
Q2PM5-18PS	2 in 2 out	18-way	2A	38mm	76.9mm
Q2P01-6PS	2 in 2 out	6-way	2A	56mm	82.7mm
Q2P01-12PS	2 in 2 out	12-way	2A	56mm	89.3mm
Q2P01-18PS	2 in 2 out	18-way	2A	56mm	93.4mm
Q2P01-24PS	2 in 2 out	24-way	2A	56mm	104.1mm
Q2P01-36PS	2 in 2 out	36-way	2A	56mm	119mm

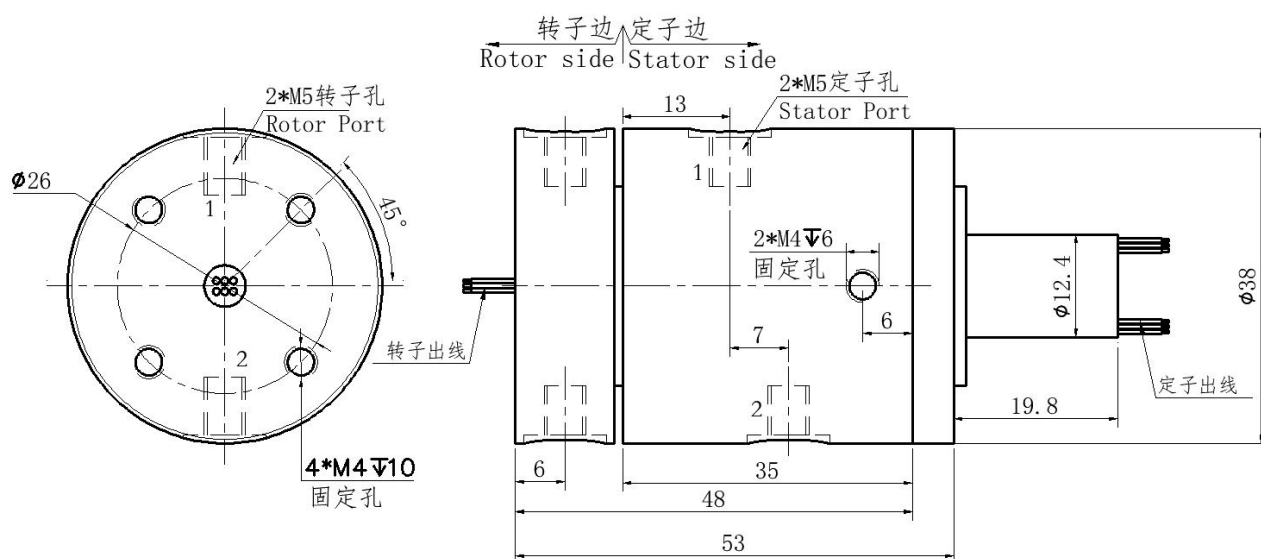
M5 interface gas-electric slip ring dimensions (6-way, 12-way, 18-way)



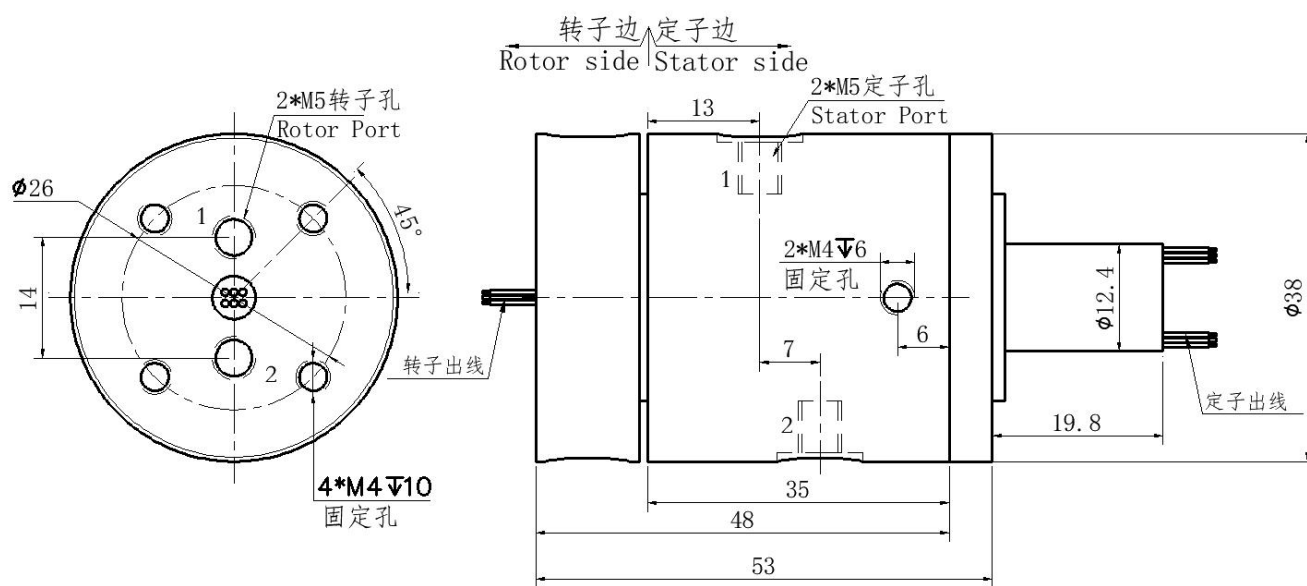
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2PM5-6PS	2	M5	4-6mm	-80KPa-0.8MPa	6-way	2A	Side



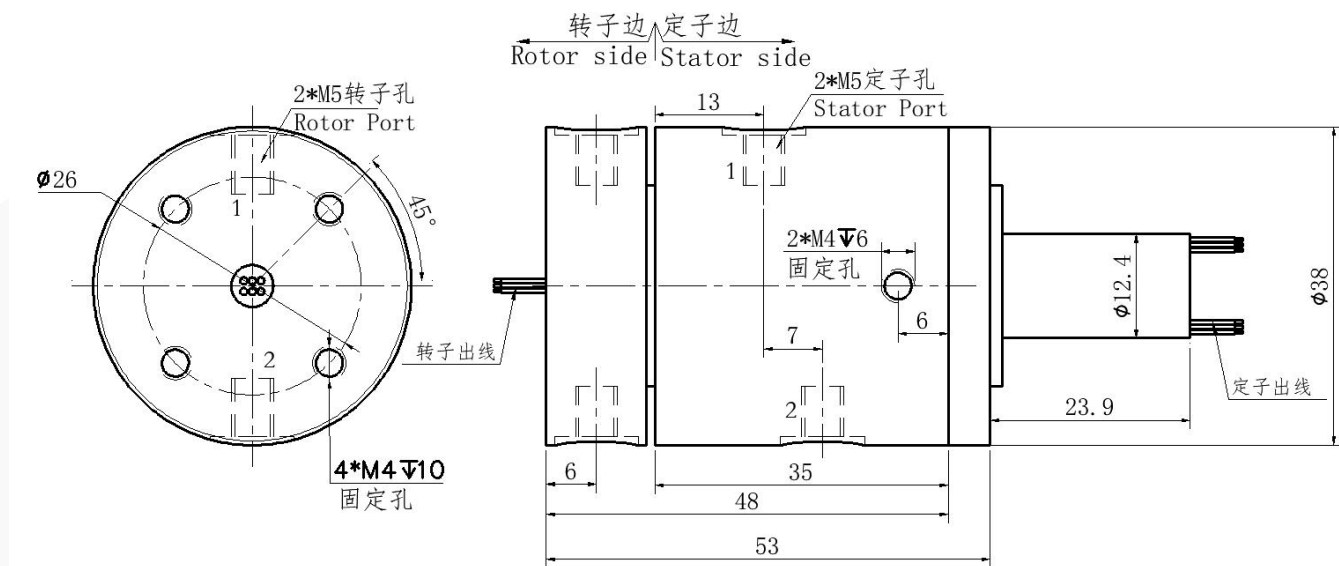
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2PM5-6PS	2	M5	4-6mm	-80KPa-0.8MPa	6-way	2A	End face



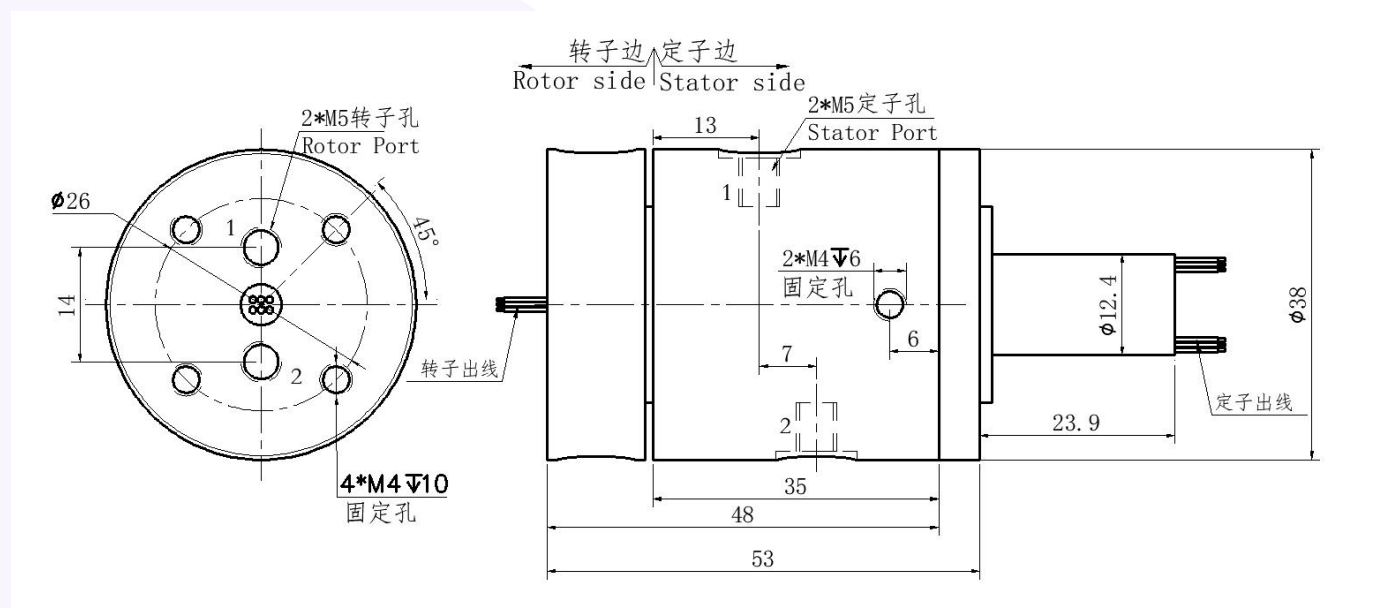
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2PM5-12PS	2	M5	4-6mm	-80KPa-0.8MPa	12-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2PM5-12PS	2	M5	4-6mm	-80KPa-0.8MPa	12-way	2A	End face

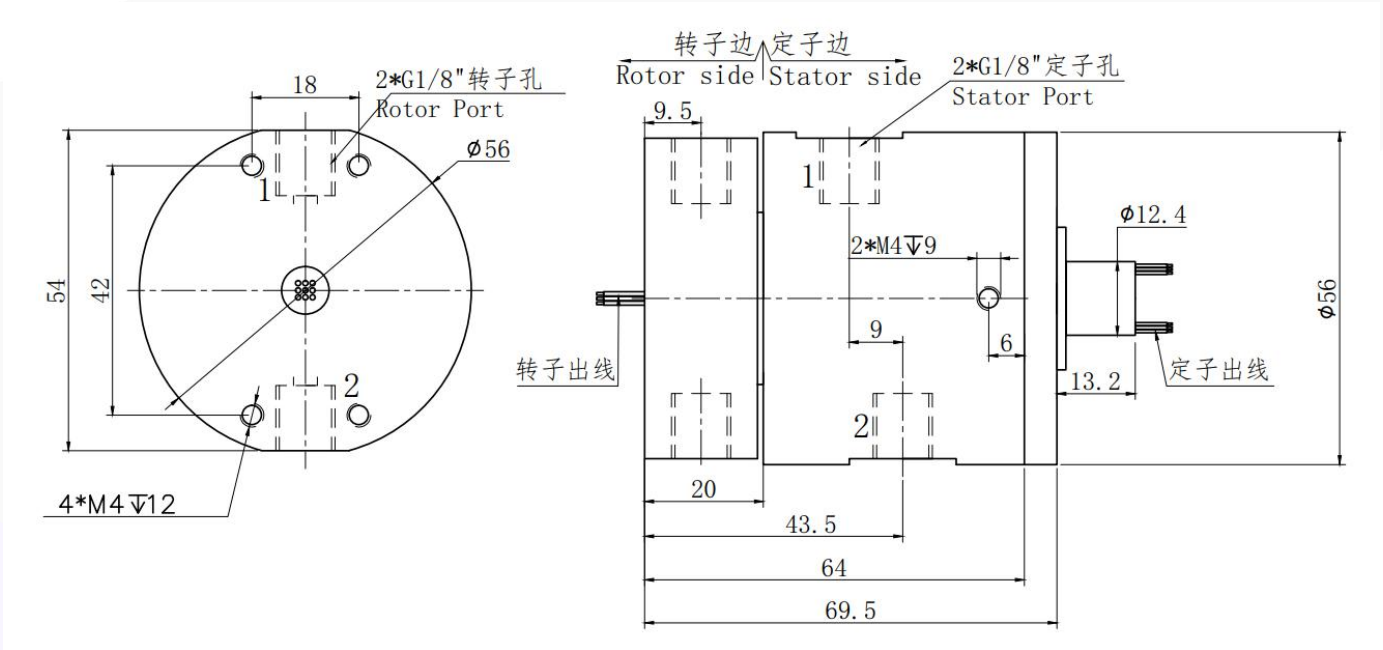


Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2PM5-18PS	2	M5	4-6mm	-80KPa-0.8MPa	18-way	2A	Side

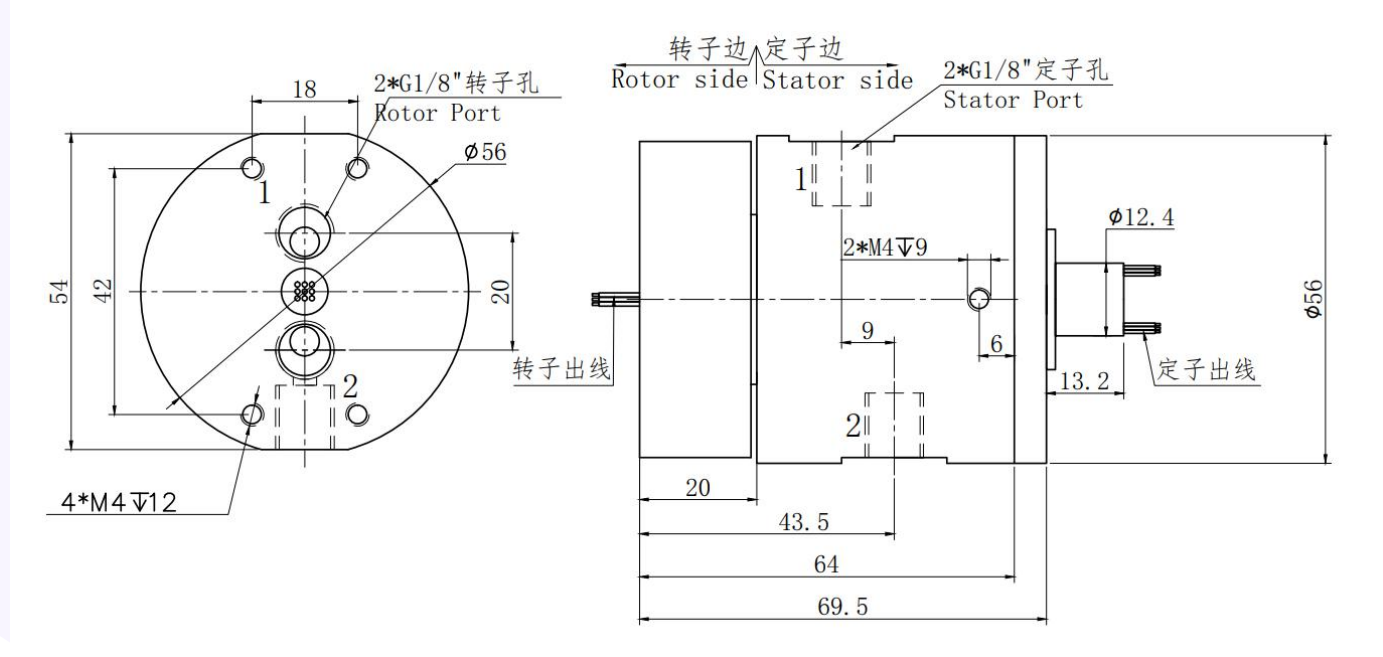


Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2PM5-18PS	2	M5	4-6mm	-80KPa-0.8MPa	18-way	2A	End face

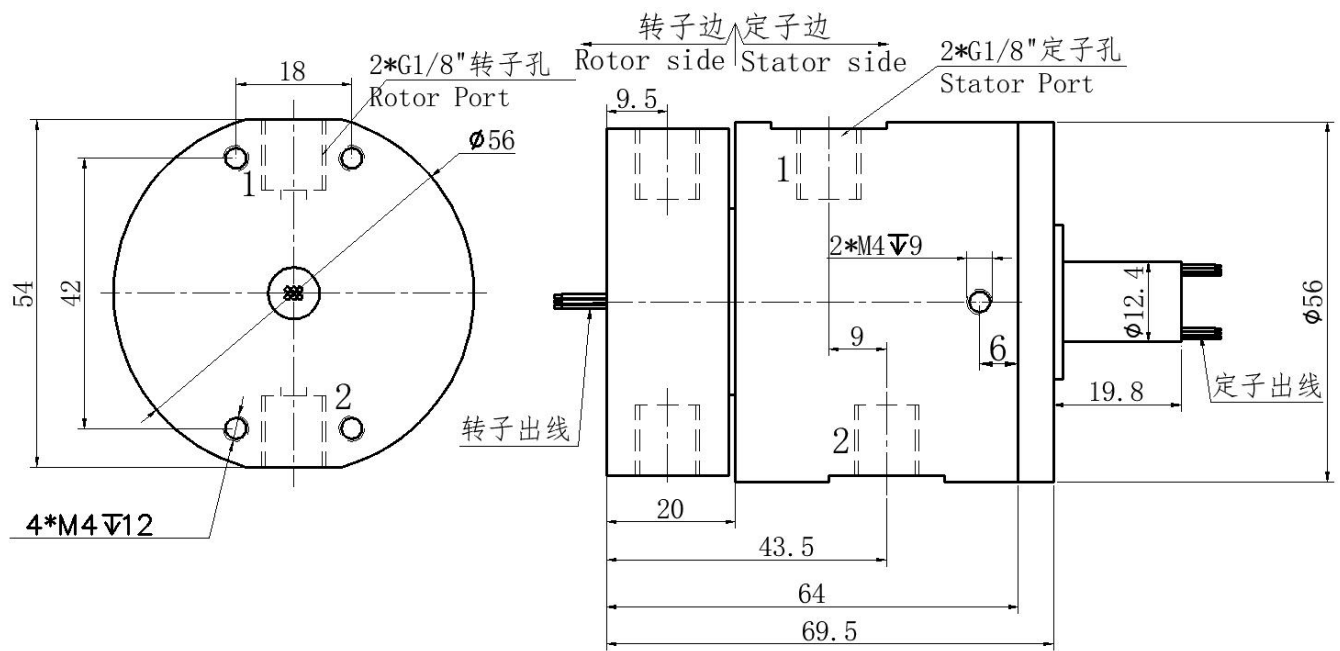
P01 (G1/8" connector) gas-electric slip ring dimensions (6-way, 12-way, 18-way, 24-way, 36-way)



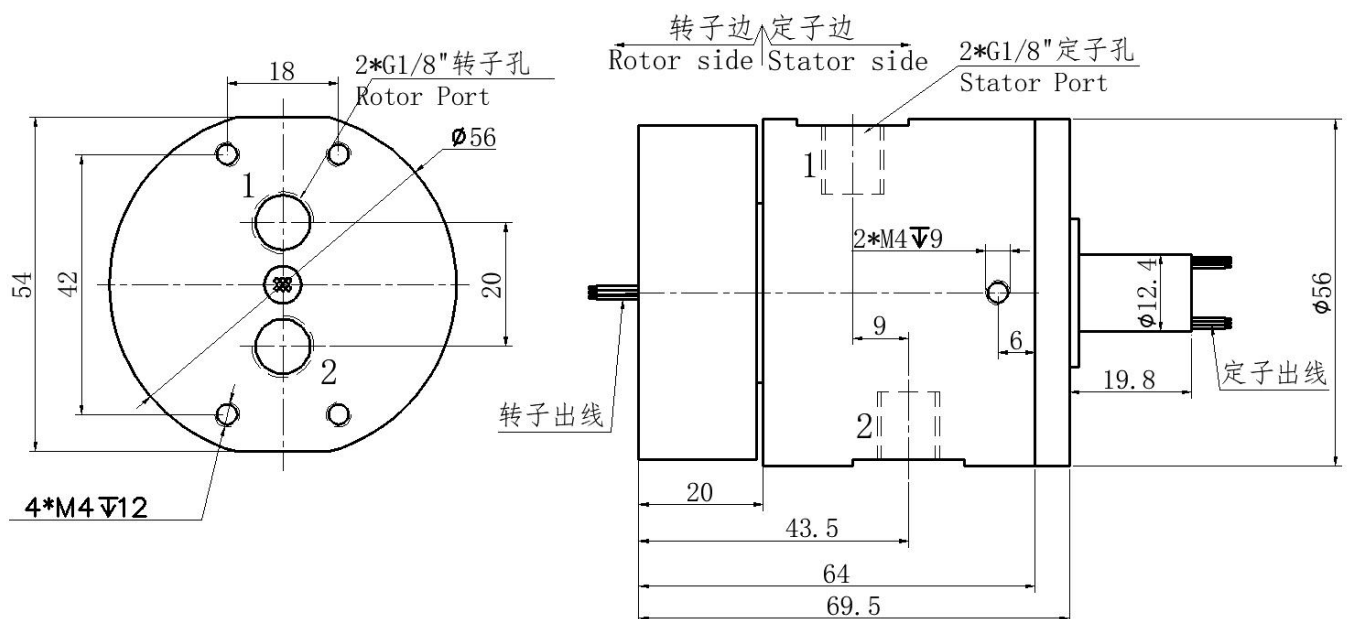
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-6PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	6-way	2A	Side



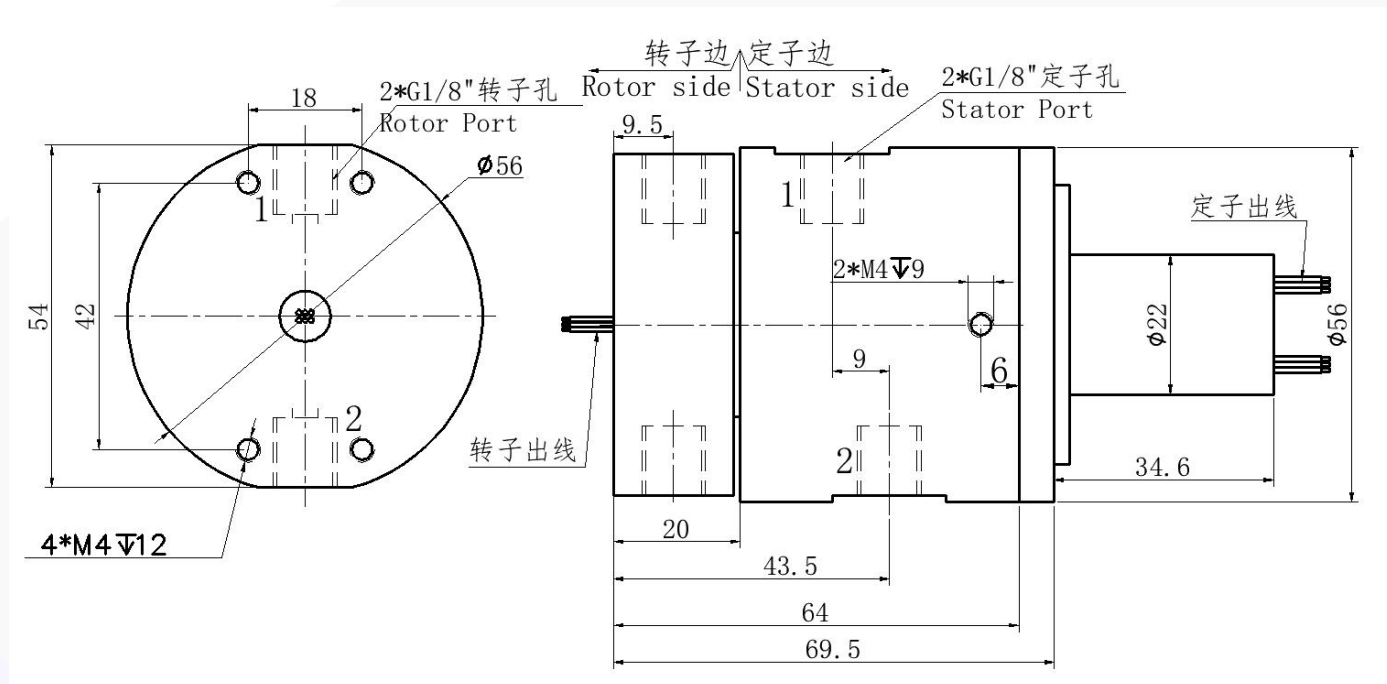
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-6PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	6-way	2A	Red face



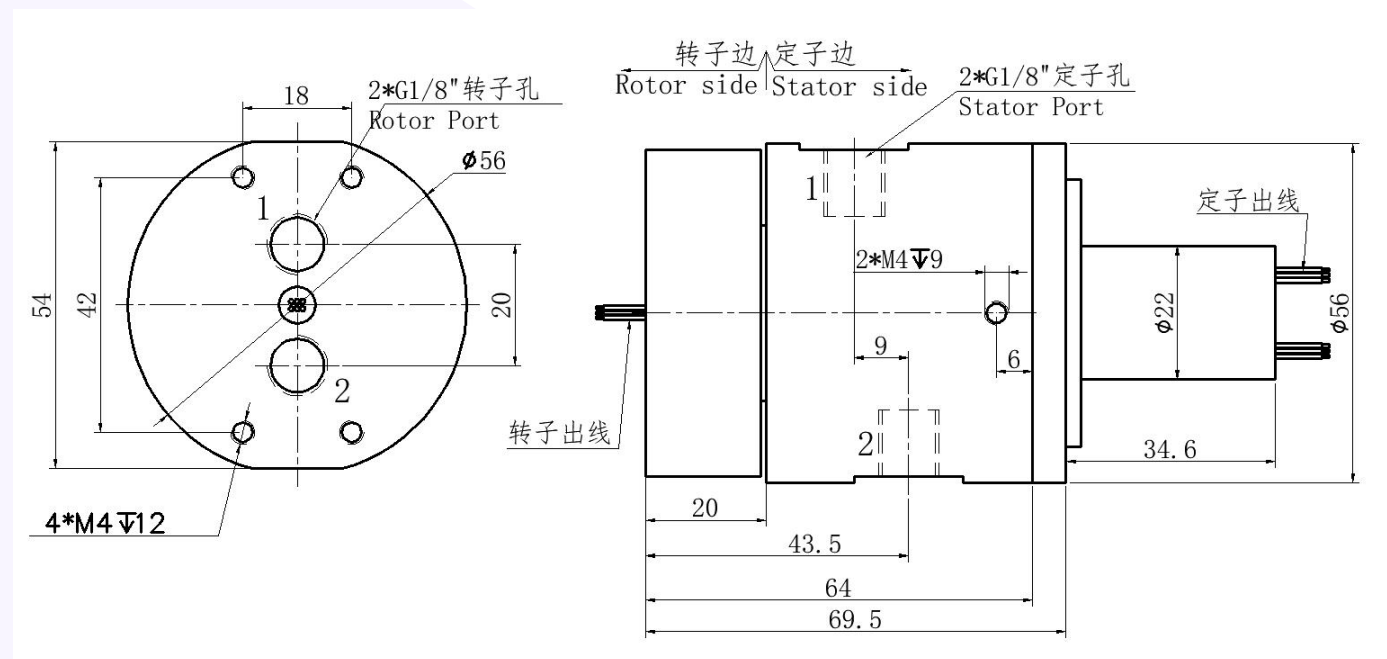
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-12PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	12-way	2A	Side



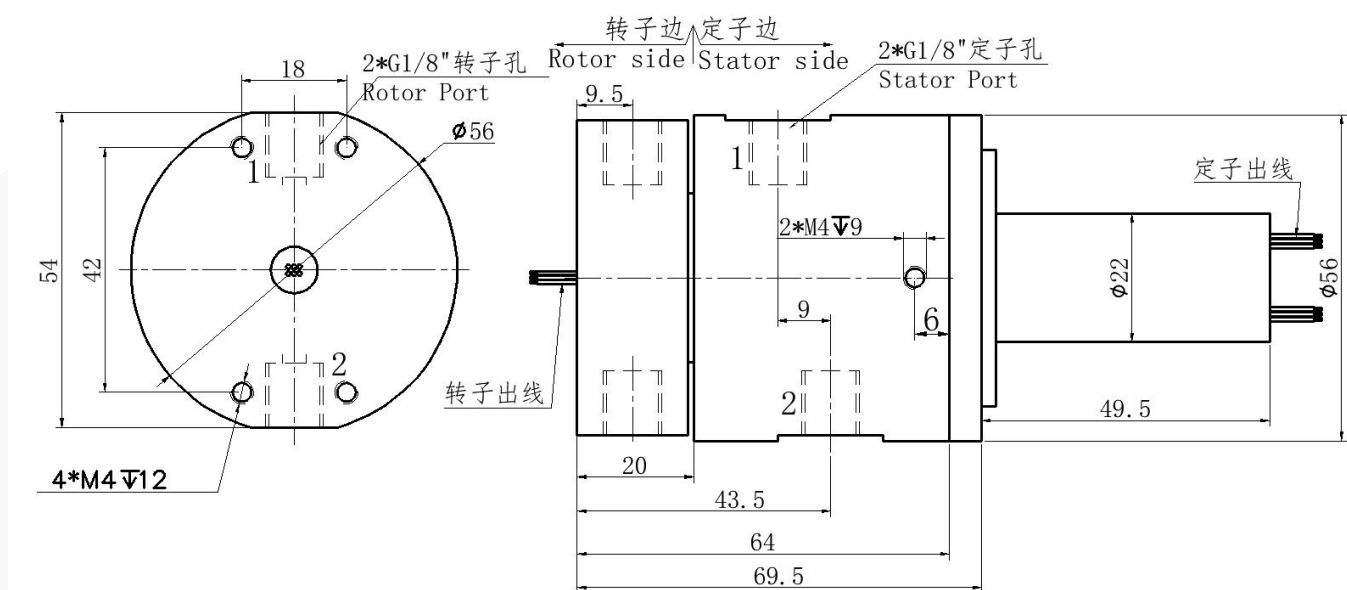
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-12PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	12-way	2A	End face



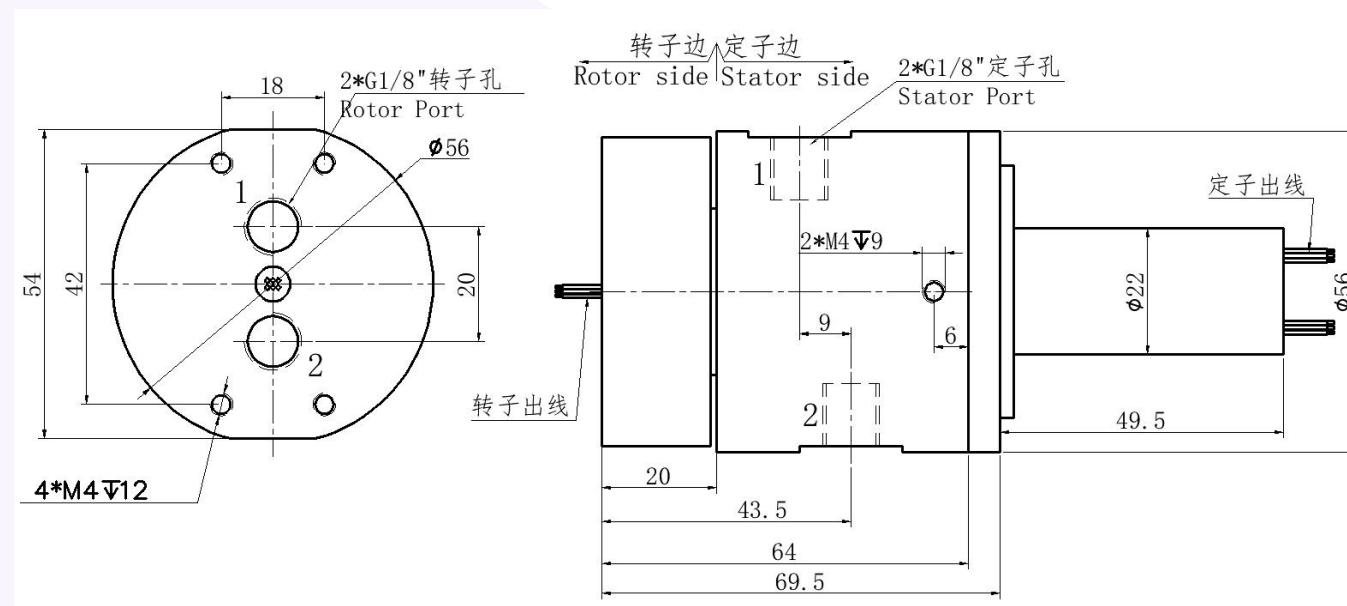
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-24PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	24-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-24PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	24-way	2A	End face



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-36PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	36-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q2P01-36PS	2	G1/8"	6-8mm	-80KPa-0.8MPa	36-way	2A	End face

Technical Specifications

Electrical parameters	Parameter Value	Gas parameters	Parameter Value
Dielectric strength	500VCA@50Hz, 60s	Number of trachea	2 in 2 out
Insulation resistance	≥500MΩ/300VDC	Pressure	-80KPa-0.8MPaor vacuum
Dynamic resistance change value	< 10mΩ	Rotational torque	<0.3N.m
Rated voltage	0 ~ 440VDC/VAC	Rotation speed	250rpm
Wire Specifications	AWG28 Teflon wire (depending on the specific current)	Shell material	Aluminum Alloy
Wire length	Default 250mm (Customizable)	Temperature	-30℃ ~ +80℃
Contact material	Precious metal contacts	Operating humidity	0 ~ 85%RH
Protection level	IP51		

Color code table for each loop conductor

Loop	1	2	3	4	5	6	7	8	9	10	11	12
Color	black	brown	red	orange	yellow	green	blue	Purple	grey	White	White and red	Light blue
Note: 12 colors form a group, loop 1 to 12, the next group repeats the first 12 colors, each group is distinguished by a number tube as the group number												

Product Customization Options

Mechanical structure	The rotor and stator lead-out method and lead-out length can be requested
	The inner diameter, outer diameter and length of the product can be requested
	The outlet wires can be connected to aviation plugs, terminals, heat shrink tubing, etc.
	The material used for the housing can be requested, such as stainless steel, insulating material, etc.
Usage Environment	High temperature slip rings for use in high temperature environments
	Waterproof slip rings are required in dust and water proof environments. The protection level can be IP65 or IP68.
	High-speed slip rings used in high-speed equipment, with speeds up to 5000rpm
Electrical	Any number of slip rings can be customized as required, with a maximum of 200 lines.

properties	Various types of private server system signals, power lines, encoder lines and other hybrid slip rings can be customized
	Various types of high-speed data transmission slip rings can be customized, such as Ethernet, USB, RS232, CanBus and other industrial buses
	High current slip rings can be customized according to the current size
	High voltage slip rings can be customized according to voltage
Gas slip ring parameters	Customizable gas, liquid, oil, high pressure gas slip rings
	The outer diameter of the slip ring, the size of the center hole, the size of the air pipe and other parameters can be customized
	The air hole parameters such as air inlet and outlet mode, air inlet and outlet position can be customized
	The torque can be adjusted according to the needs

4 channel series gas electric slip ring

The Q series gas-electric slip ring is a high-performance integrated rotary joint designed for rotating equipment that needs to synchronously transmit power, signals and gas/liquid media. This series of products adopts a modular design, supports multi-channel electrical and gas-liquid mixed transmission, and has high sealing, low resistance conduction and long life. It can effectively solve the cable winding and medium leakage problems in complex rotating systems and is suitable for high-precision fields such as industrial automation, medical equipment, and new energy equipment.



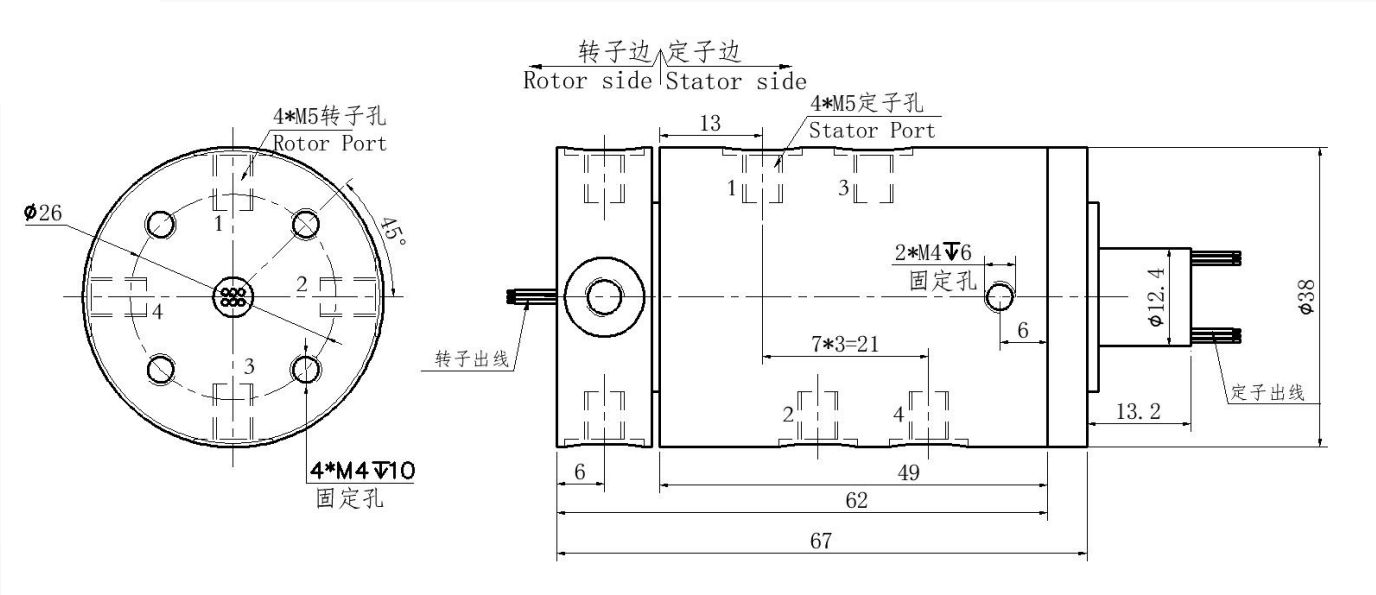
Ordering Model Description

Q4P	M5	-	6P	S
Q : Q means Q series gas-electric slip ring. 4P: 4P means 4 channel.	M5: M5 indicates the interface size, M5 air pipe interface. 0 1: indicates G1/8" interface		6P: 6P means there are 6 circuit	S: Indicates that it can pass 2A of current.

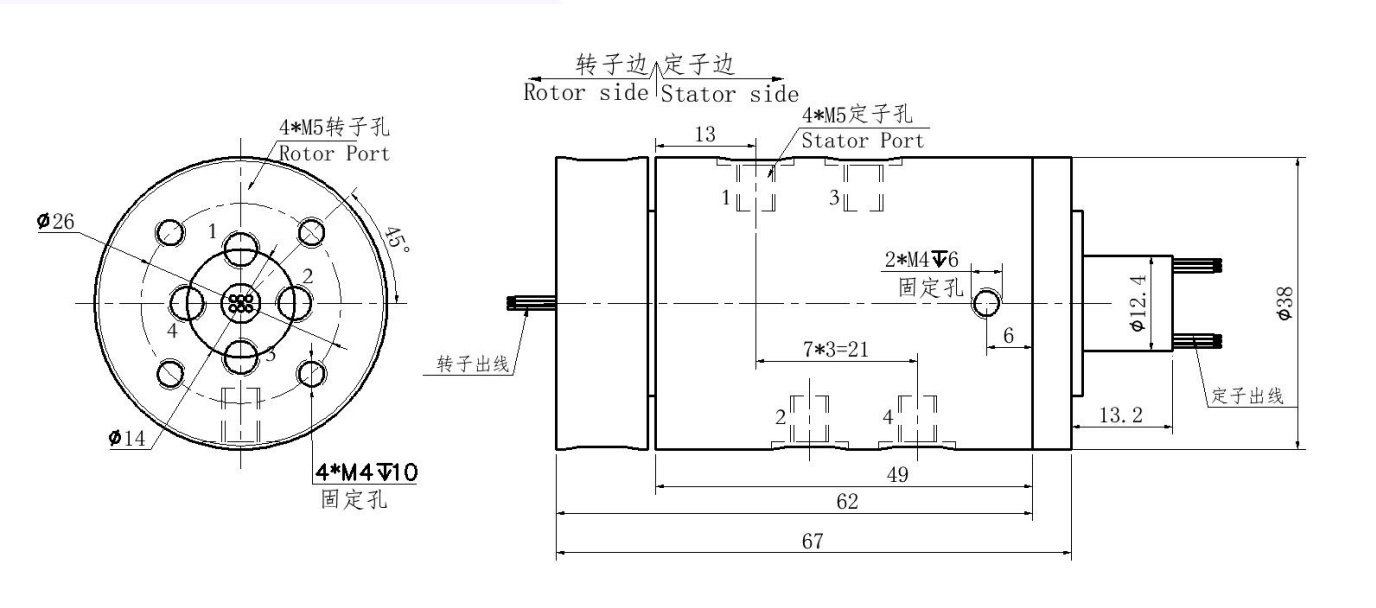
Standard Model Selection Table

Model	Gas channel	Circuit Channel	Current	Outer diameter	Length
Q4PM5-6PS	4 in 4 out	6-way	2A	38mm	80.2mm
Q4PM5-12PS	4 in 4 out	12-way	2A	38mm	86.8mm
Q4PM5-18PS	4 in 4 out	18-way	2A	38mm	90.9mm
Q4P01-6PS	4 in 4 out	6-way	2A	56mm	100.7mm
Q4P01-12PS	4 in 4 out	12-way	2A	56mm	107.3mm
Q4P01-18PS	4 in 4 out	18-way	2A	56mm	111.4mm
Q4P01-24PS	4 in 4 out	24-way	2A	56mm	122.1mm
Q4P01-36PS	4 in 4 out	36-way	2A	56mm	137mm

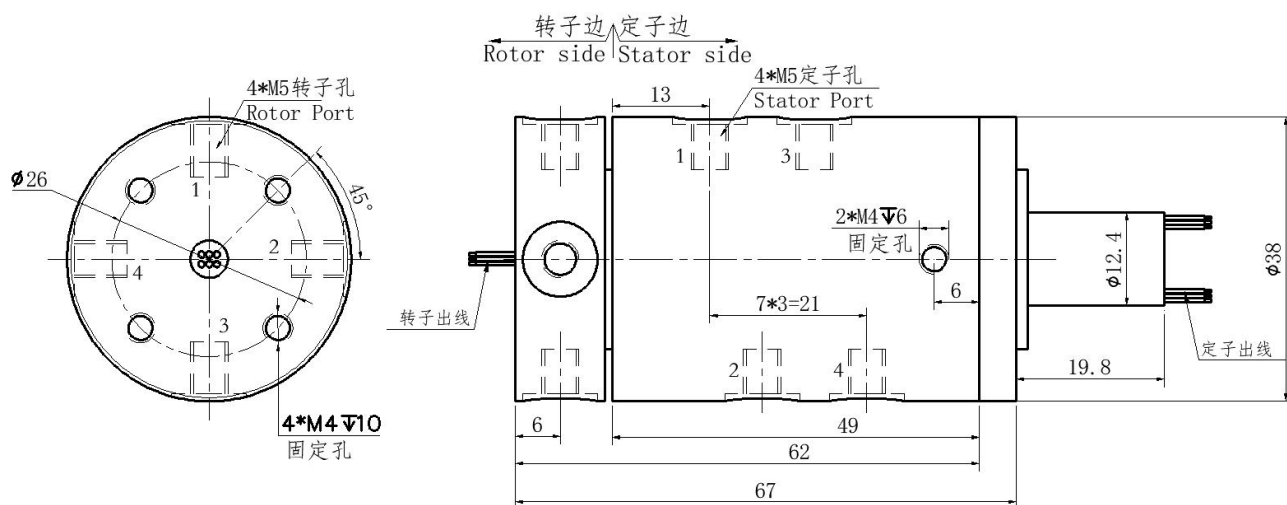
M5 interface gas-electric slip ring dimensions (6-way, 12-way, 18-way)



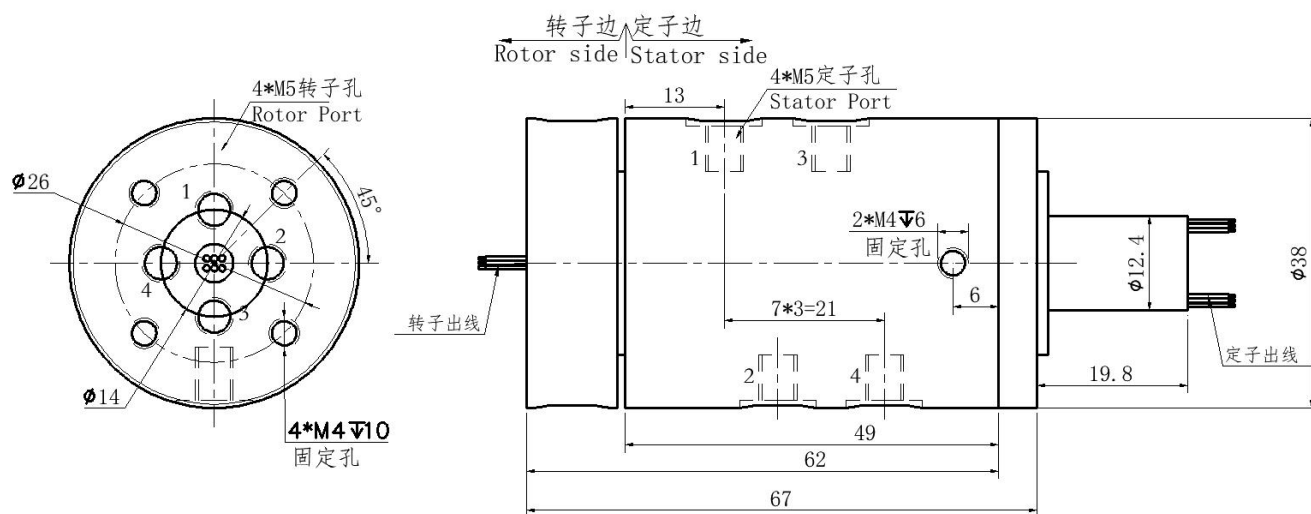
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4PM5-6PS	4	M5	4-6mm	-80KPa-0.8MPa	6-way	2A	Side



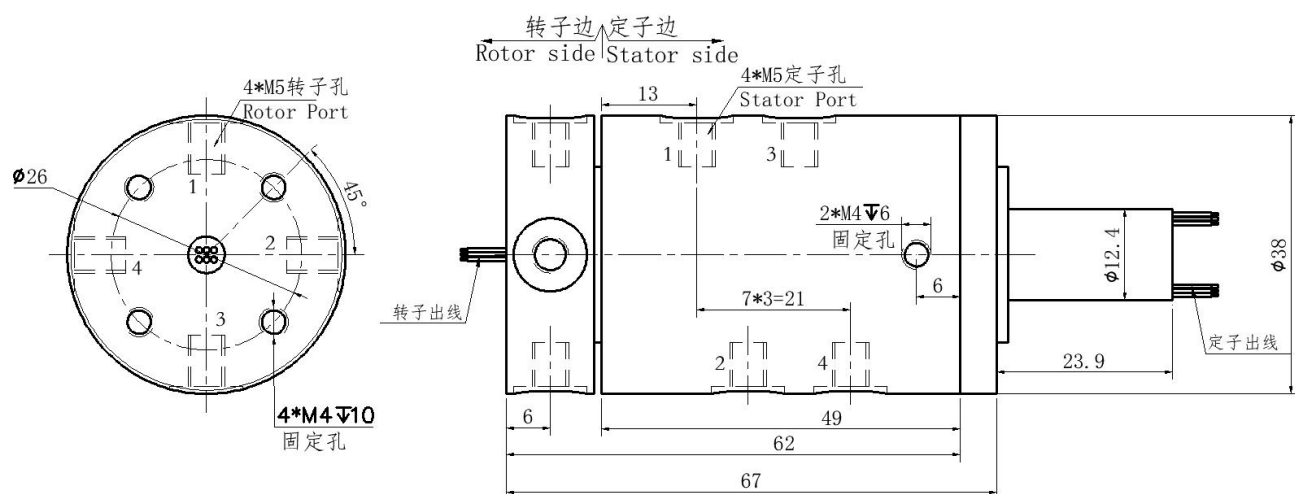
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4PM5-6PS	4	M5	4-6mm	-80KPa-0.8MPa	6-way	2A	End face



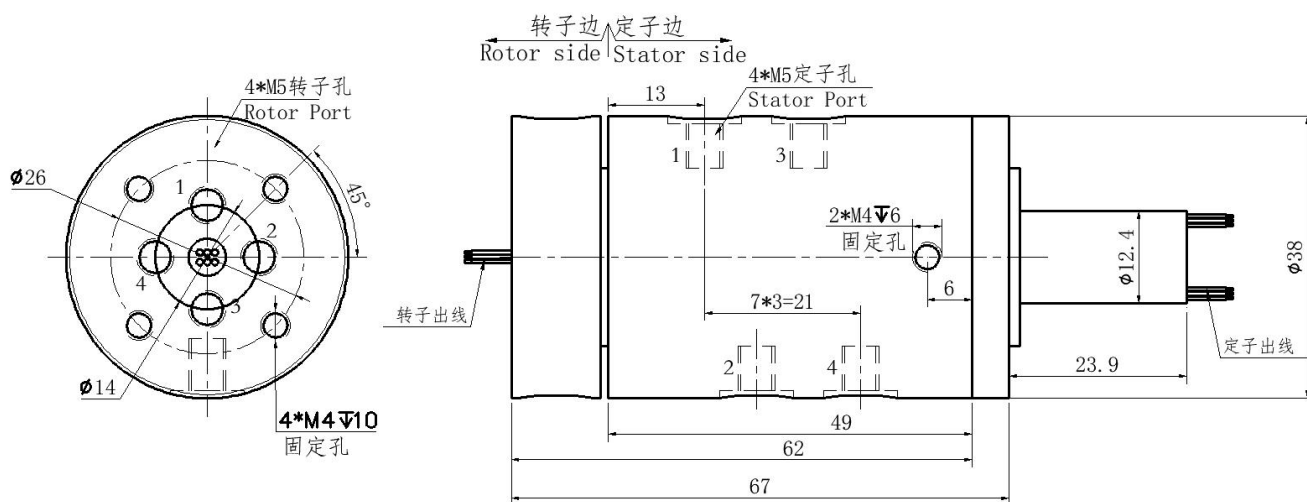
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4PM5-12PS	4	M5	4-6mm	-80KPa-0.8MPa	12-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4PM5-12PS	4	M5	4-6mm	-80KPa-0.8MPa	12-way	2A	End face

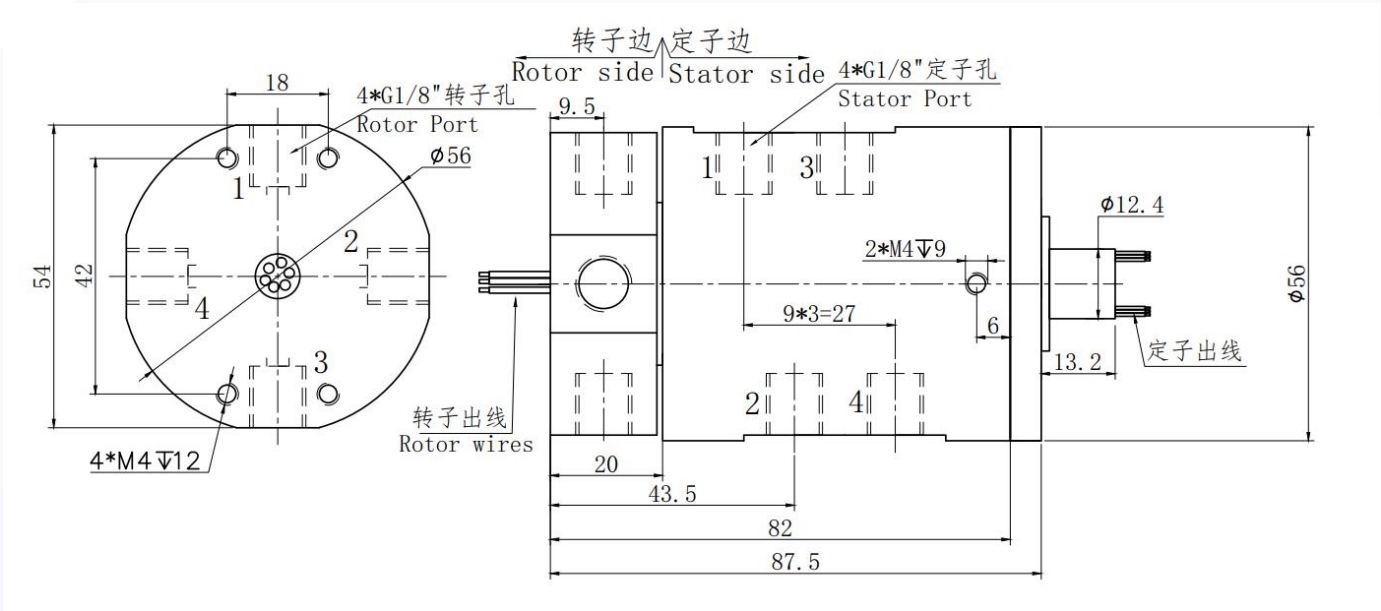


Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4PM5-18PS	4	M5	4-6mm	-80KPa-0.8MPa	18-way	2A	Side

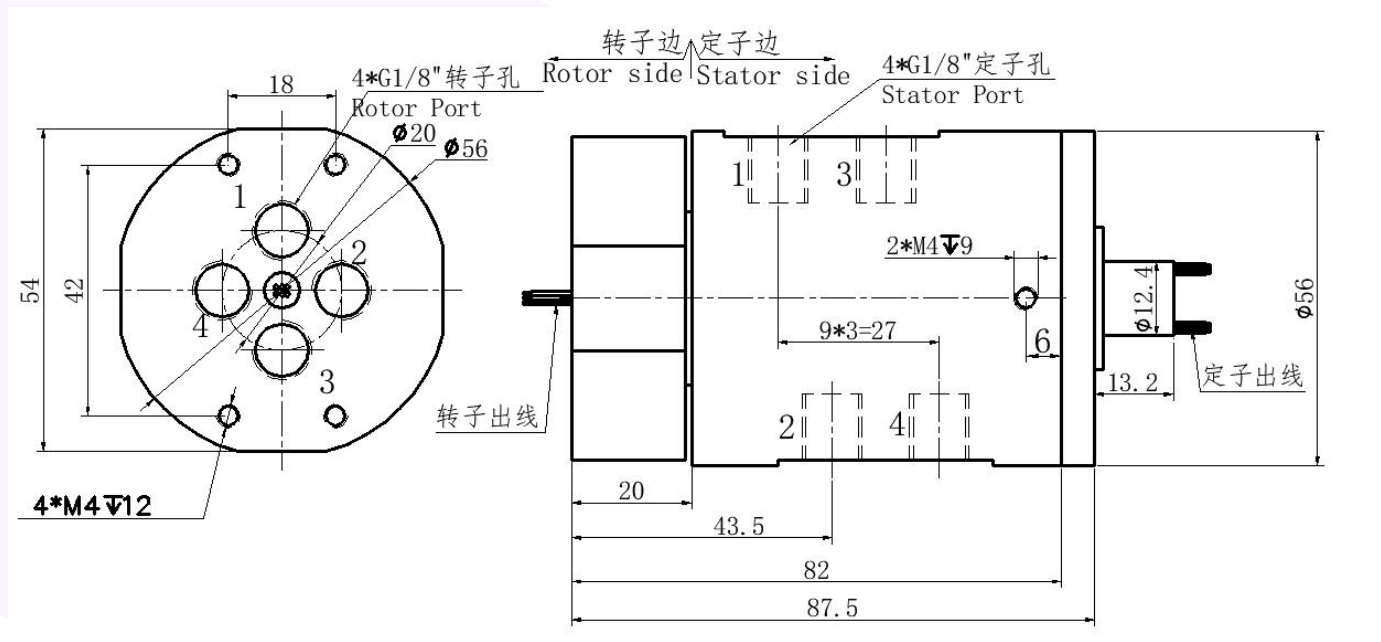


Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4PM5-18PS	4	M5	4-6mm	-80KPa-0.8MPa	18-way	2A	End face

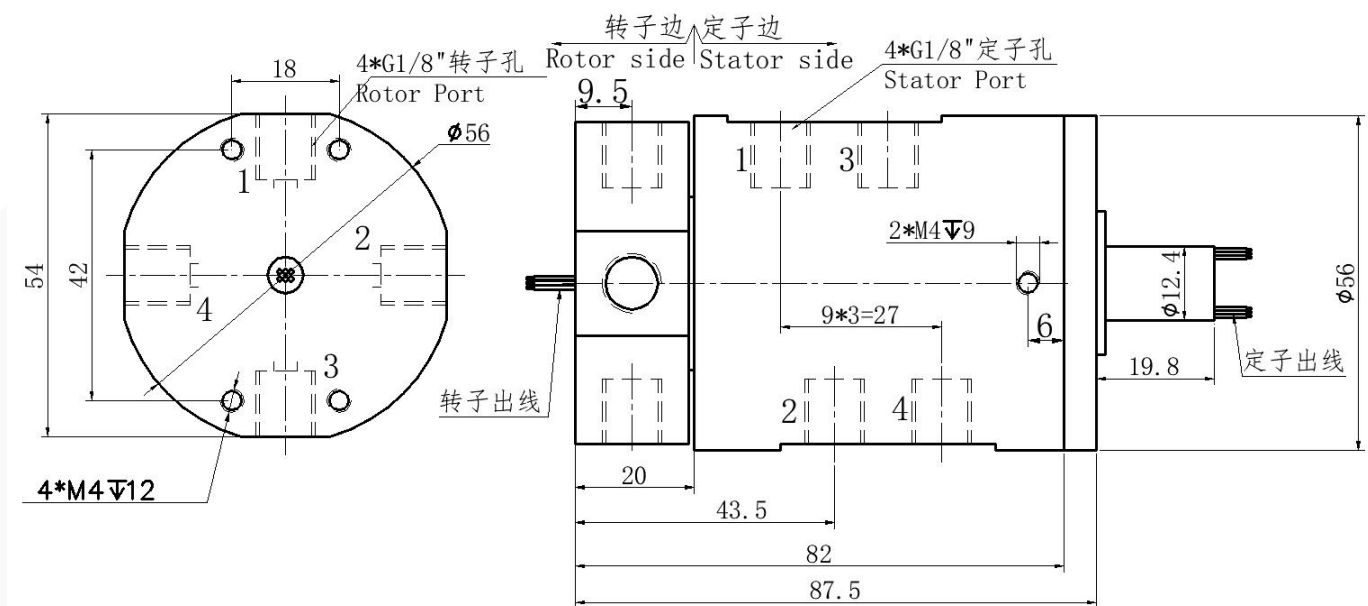
P01 (G1/8" connector) gas-electric slip ring dimensions (6-way, 12-way, 18-way, 24-way, 36-way)



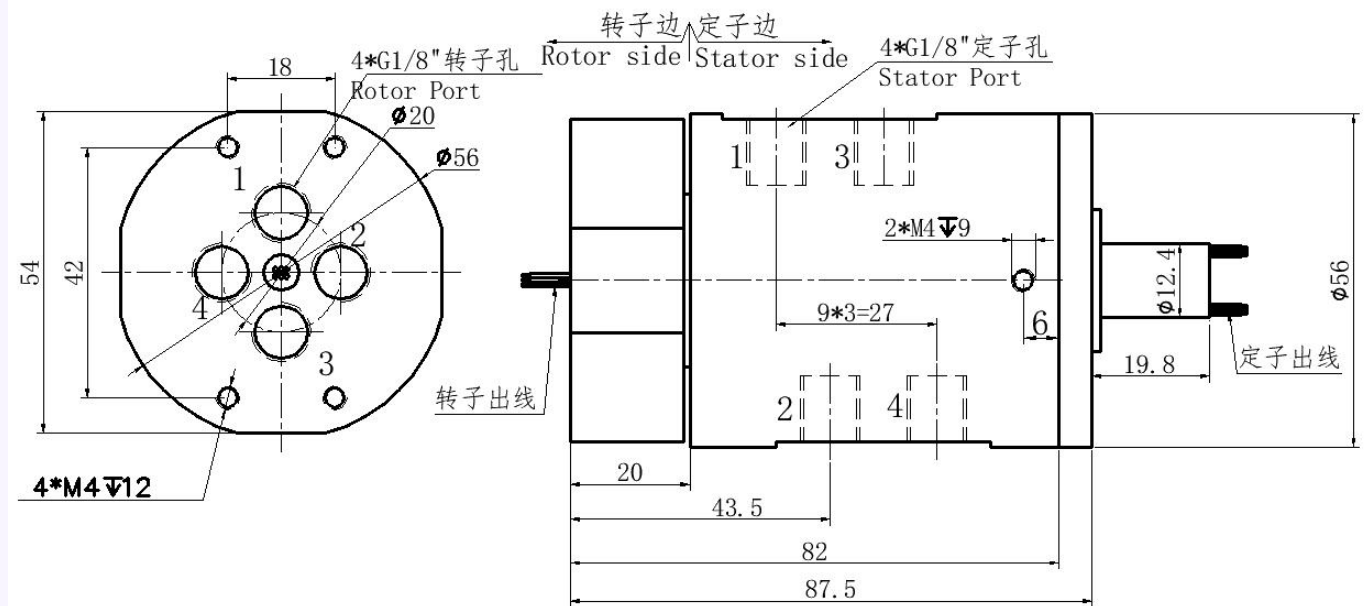
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-6PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	6-way	2A	Side



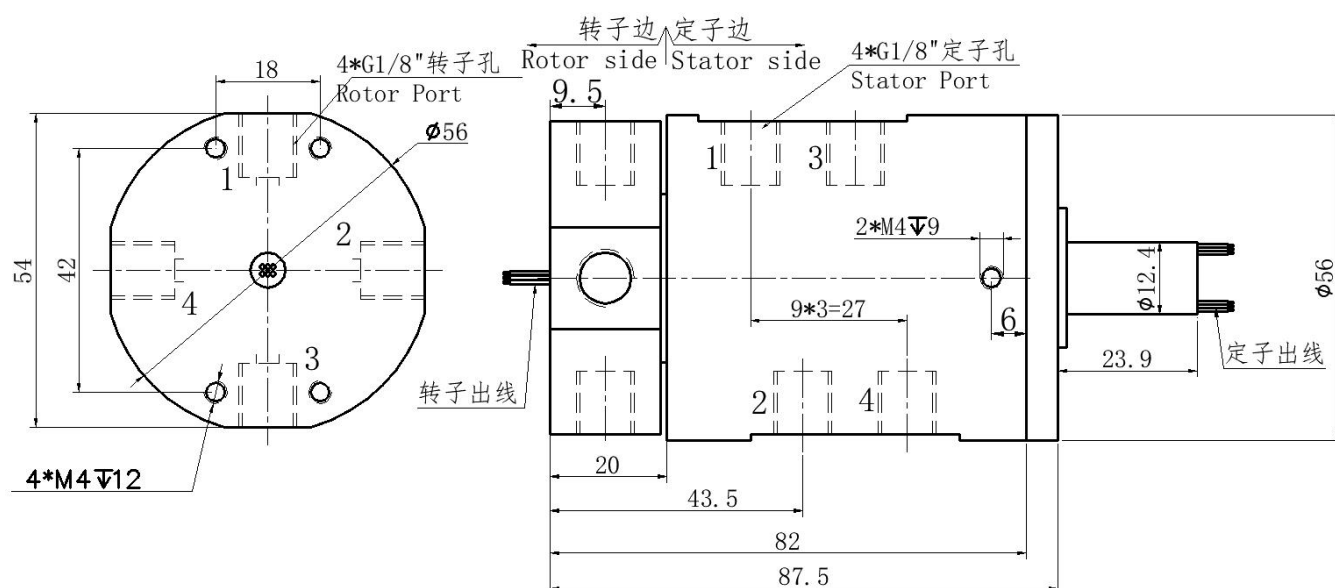
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-6PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	6-way	2A	End face



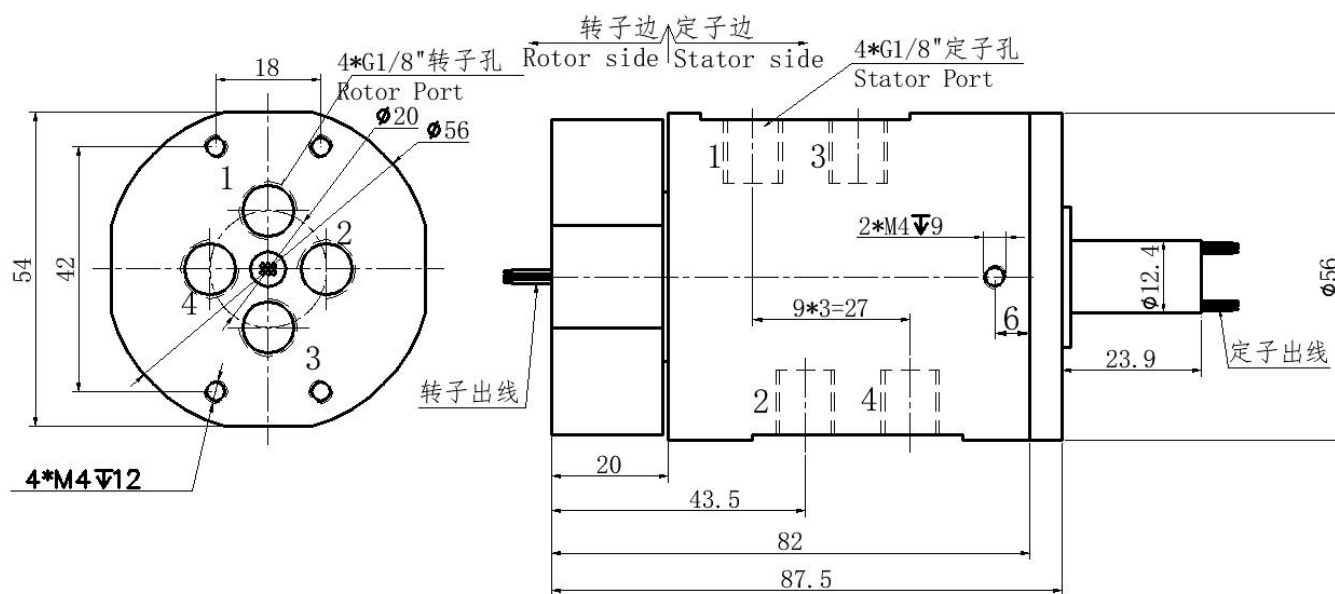
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-12PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	12-way	2A	Side



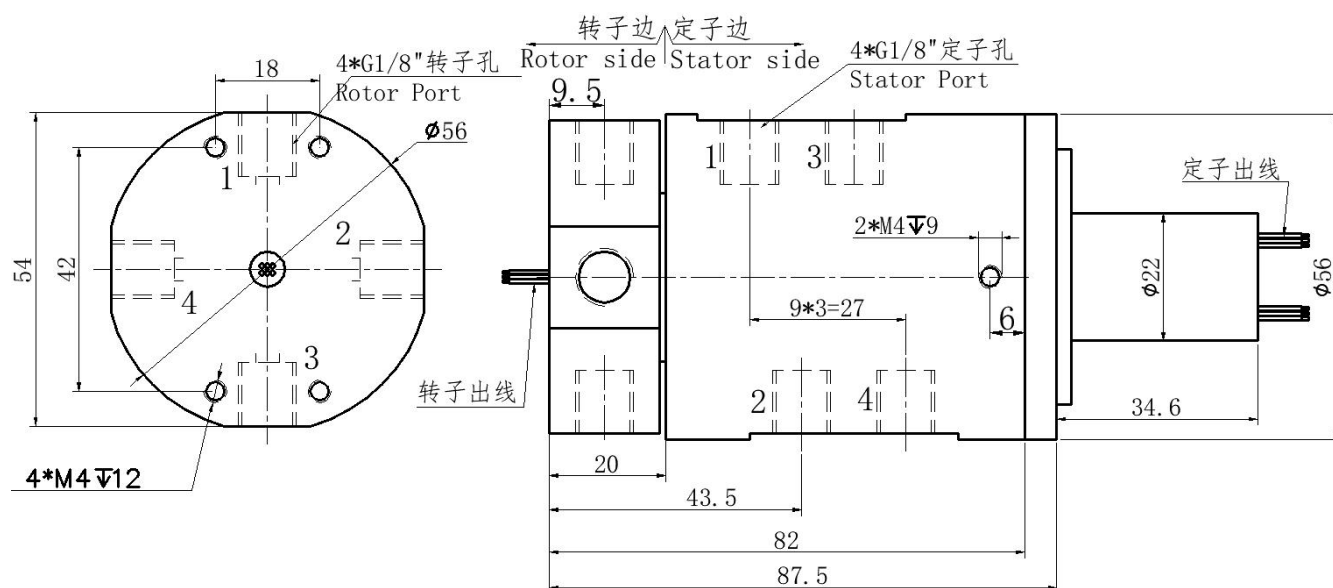
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-12PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	12-way	2A	End face



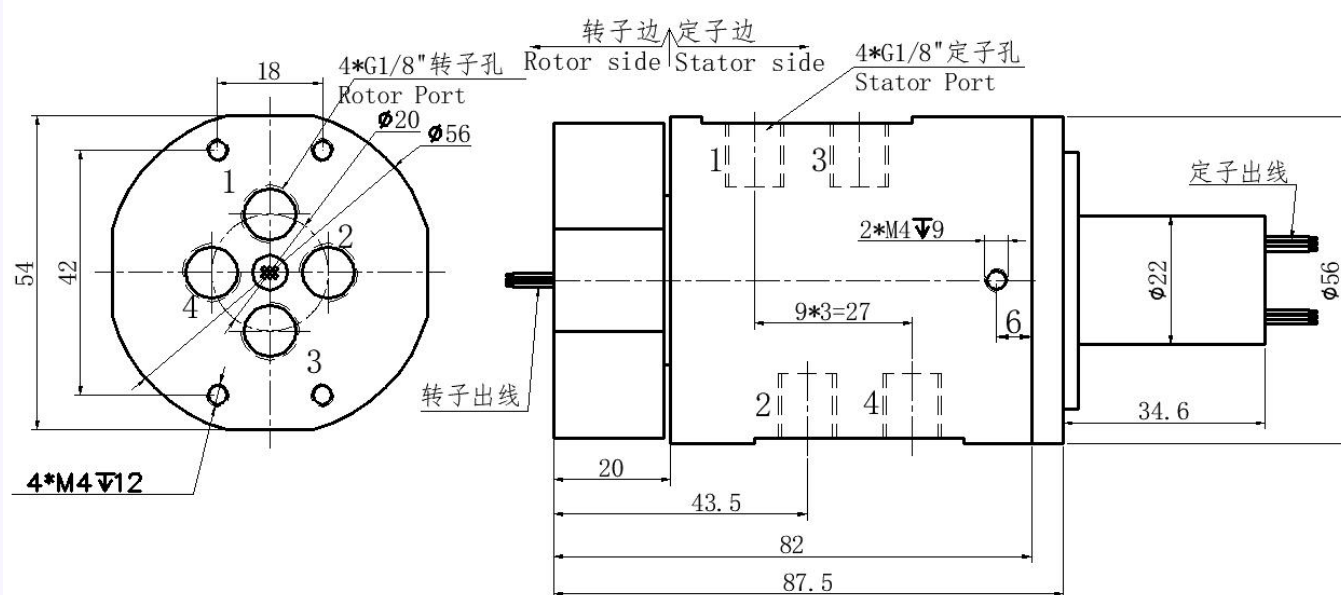
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-18PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	18-way	2A	Side



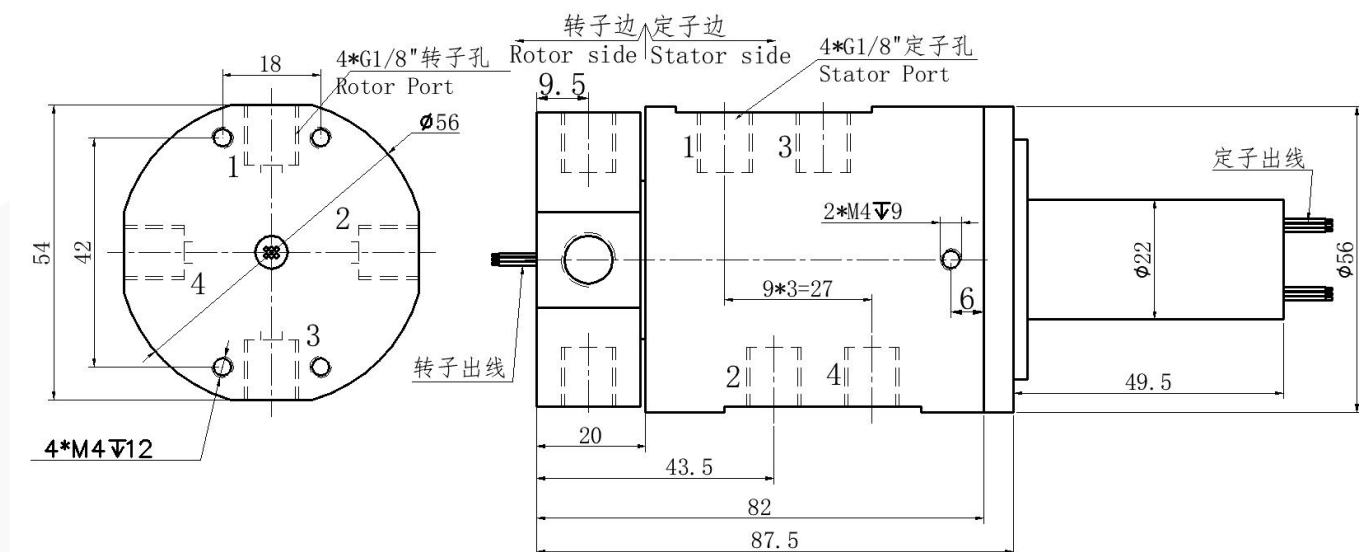
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-18PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	18-way	2A	End face



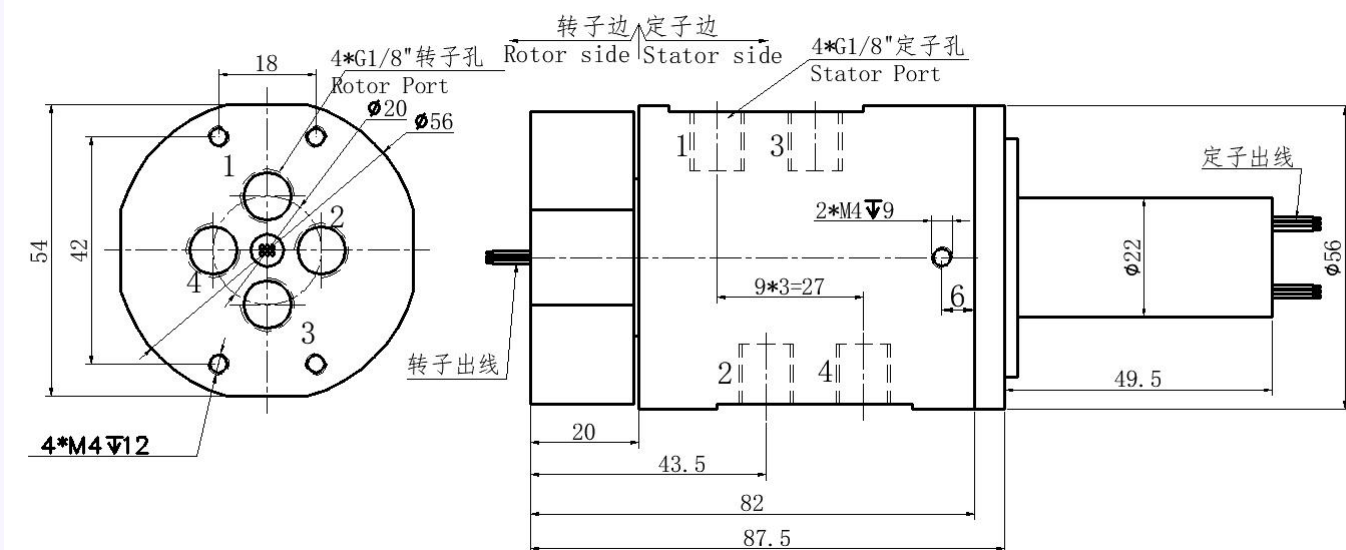
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-24PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	24-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-24PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	24-way	2A	End face



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-36PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	36-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q4P01-36PS	4	G1/8"	6-8mm	-80KPa-0.8MPa	36-way	2A	End face

Technical Specifications

Electrical parameters	Parameter Value	Gas parameters	Parameter Value
Dielectric strength	500VCA@50Hz, 60s	Number of trachea	4 in 4 out
Insulation resistance	≥500MΩ/300VDC	Pressure	-80KPa-0.8MPaor vacuum
Dynamic resistance change value	< 10mΩ	Rotational torque	<0.5N.m
Rated voltage	0 ~ 440VDC/VAC	Rotation speed	250rpm
Wire Specifications	AWG28 Teflon wire (depending on the specific current)	Shell material	Aluminum Alloy
Wire length	Default 250mm (Customizable)	Temperature	-30℃ ~ +80℃
Contact material	Precious metal contacts	Operating humidity	0 ~ 85%RH
Protection level	IP51		

Color code table for each loop conductor

Loop	1	2	3	4	5	6	7	8	9	10	11	12
Color	black	brown	red	orange	yellow	green	blue	Purple	grey	White	White and red	Light blue
Note: 12 colors form a group, loop 1 to 12, the next group repeats the first 12 colors, each group is distinguished by a number tube as the group number												

Product Customization Options

Mechanical structure	The rotor and stator lead-out method and lead-out length can be requested
	The inner diameter, outer diameter and length of the product can be requested
	The outlet wires can be connected to aviation plugs, terminals, heat shrink tubing, etc.
	The material used for the housing can be requested, such as stainless steel, insulating material, etc.
Usage Environment	High temperature slip rings for use in high temperature environments
	Waterproof slip rings are required in dust and water proof environments. The protection level can be IP65 or IP68.
	High-speed slip rings used in high-speed equipment, with speeds up to 5000rpm
Electrical	Any number of slip rings can be customized as required, with a maximum of 200 lines.

properties	Various types of private server system signals, power lines, encoder lines and other hybrid slip rings can be customized
	Various types of high-speed data transmission slip rings can be customized, such as Ethernet, USB, RS232, CanBus and other industrial buses
	High current slip rings can be customized according to the current size
	High voltage slip rings can be customized according to voltage
Gas slip ring parameters	Customizable gas, liquid, oil, high pressure gas slip rings
	The outer diameter of the slip ring, the size of the center hole, the size of the air pipe and other parameters can be customized
	The air hole parameters such as air inlet and outlet mode, air inlet and outlet position can be customized
	The torque can be adjusted according to the needs

6 channel series gas electric slip ring

The Q series gas-electric slip ring is a high-performance integrated rotary joint designed for rotating equipment that needs to synchronously transmit power, signals and gas/liquid media. This series of products adopts a modular design, supports multi-channel electrical and gas-liquid mixed transmission, and has high sealing, low resistance conduction and long life. It can effectively solve the cable winding and medium leakage problems in complex rotating systems and is suitable for high-precision fields such as industrial automation, medical equipment, and new energy equipment.



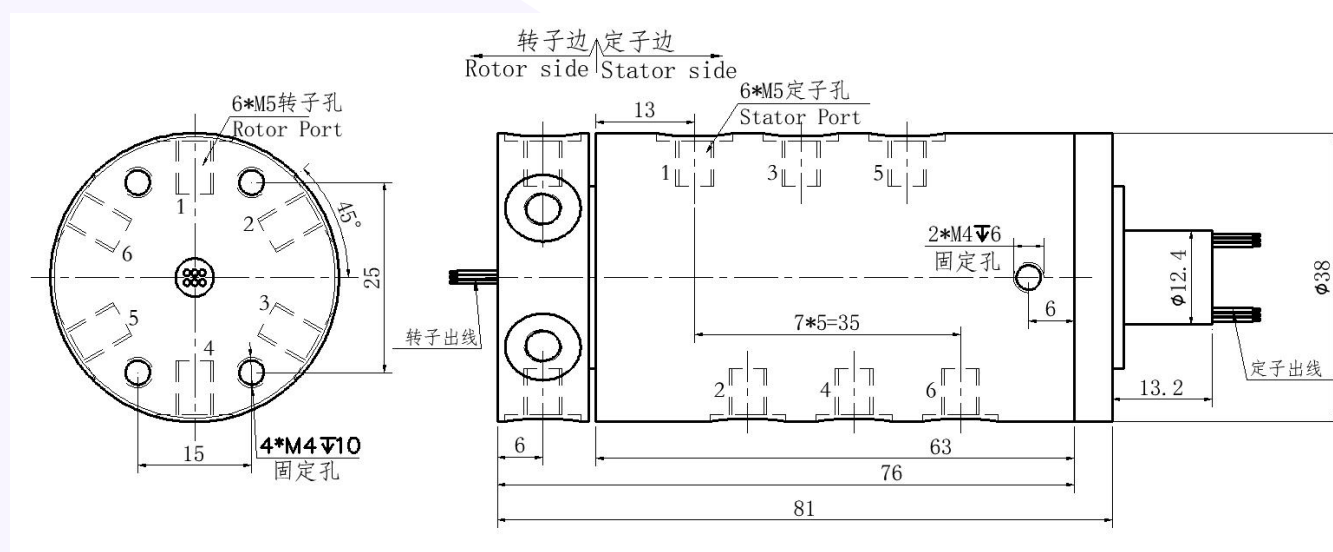
Ordering Model Description

Q6P	M5	-	6P	S
Q : Q means Q series gas-electric slip ring. 6P: 6P means 6 channel.	M5: M5 indicates the interface size, M5 air pipe interface. 0 1: indicates G1/8" interface		6P: 6P means there are 6 circuit	S: Indicates that it can pass 2A of current.

Standard Model Selection Table

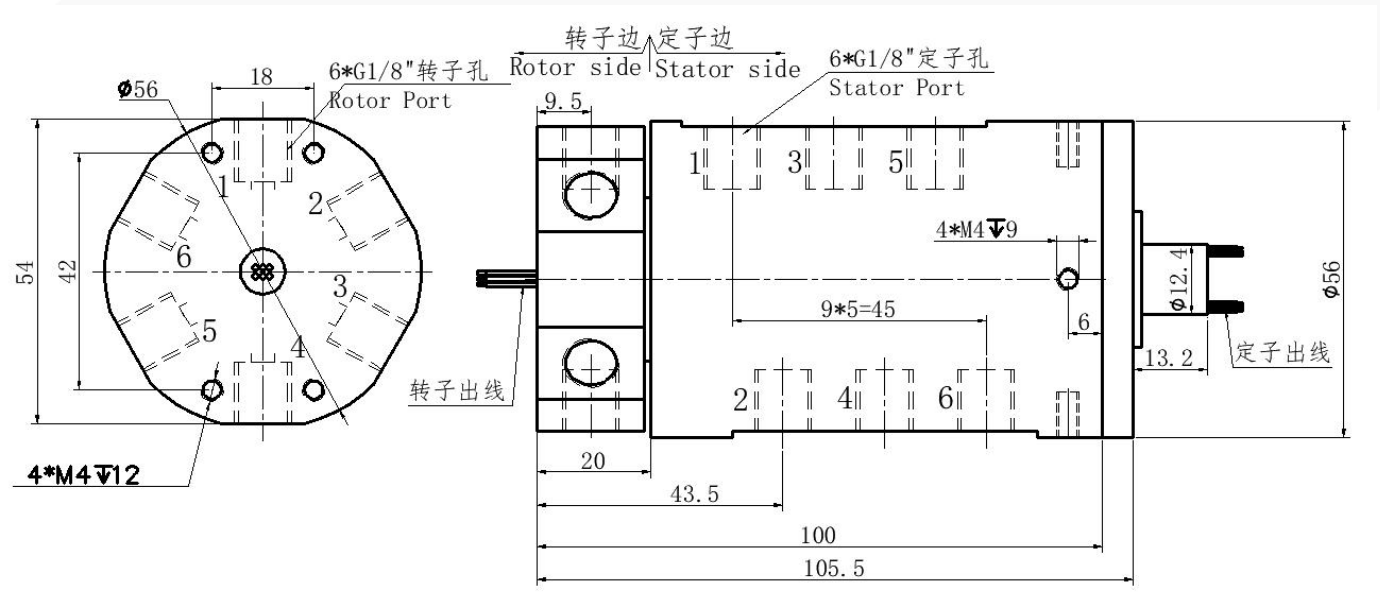
Model	Gas channel	Circuit Channel	Current	Outer diameter	Length
Q6PM5-6PS	6 in 6 out	6-way	2A	38mm	94.2mm
Q6PM5-12PS	6 in 6 out	12-way	2A	38mm	100.8mm
Q6PM5-18PS	6 in 6 out	18-way	2A	38mm	104.9mm
Q6P01-6PS	6 in 6 out	6-way	2A	56mm	118.7mm
Q6P01-12PS	6 in 6 out	12-way	2A	56mm	125.3mm
Q6P01-18PS	6 in 6 out	18-way	2A	56mm	129.4mm
Q6P01-24PS	6 in 6 out	24-way	2A	56mm	140.1mm
Q6P01-36PS	6 in 6 out	36-way	2A	56mm	155mm

M5 interface gas-electric slip ring dimensions (6-way, 12-way, 18-way)

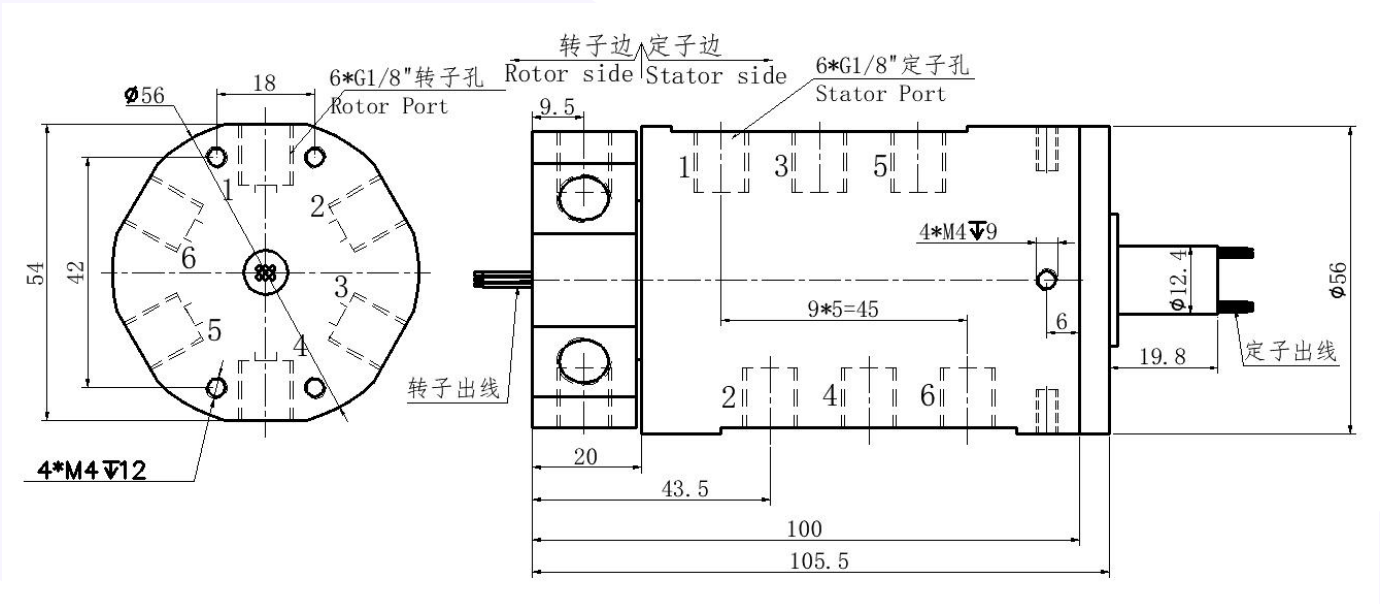


Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q6PM5-6PS	6	M5	4-6mm	-80KPa-0.8MPa	6-way	2A	Side

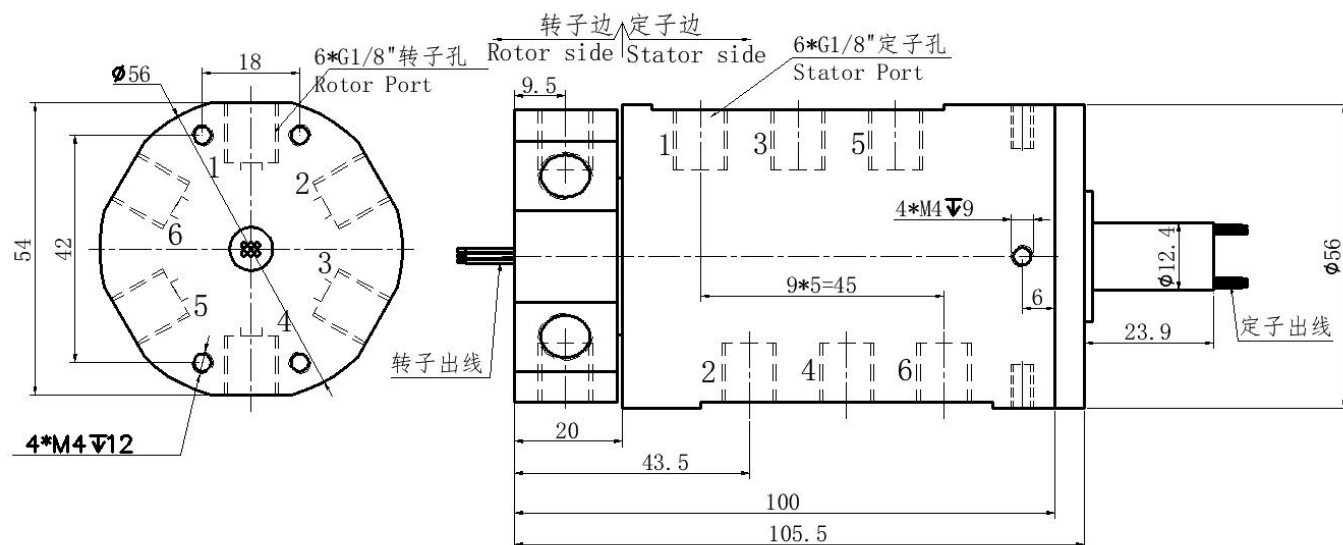
P01 (G1/8" connector) gas-electric slip ring dimensions (6-way, 12-way, 18-way, 24-way, 36-way)



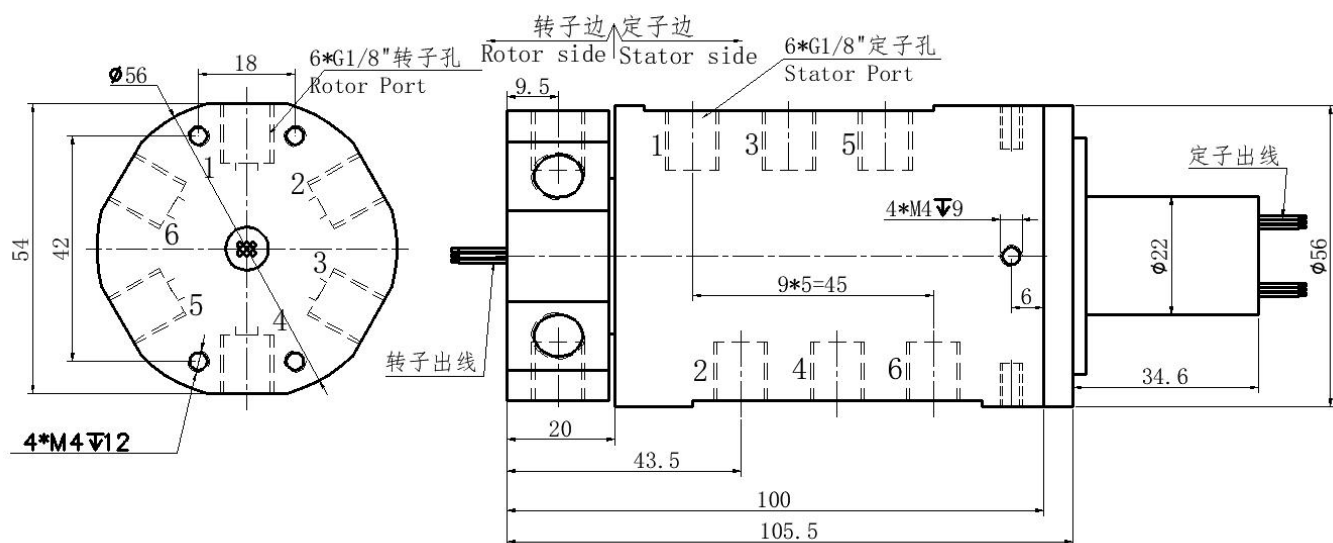
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q6P01-6PS	6	G1/8"	6-8mm	-80KPa-0.8MPa	6-way	2A	Side



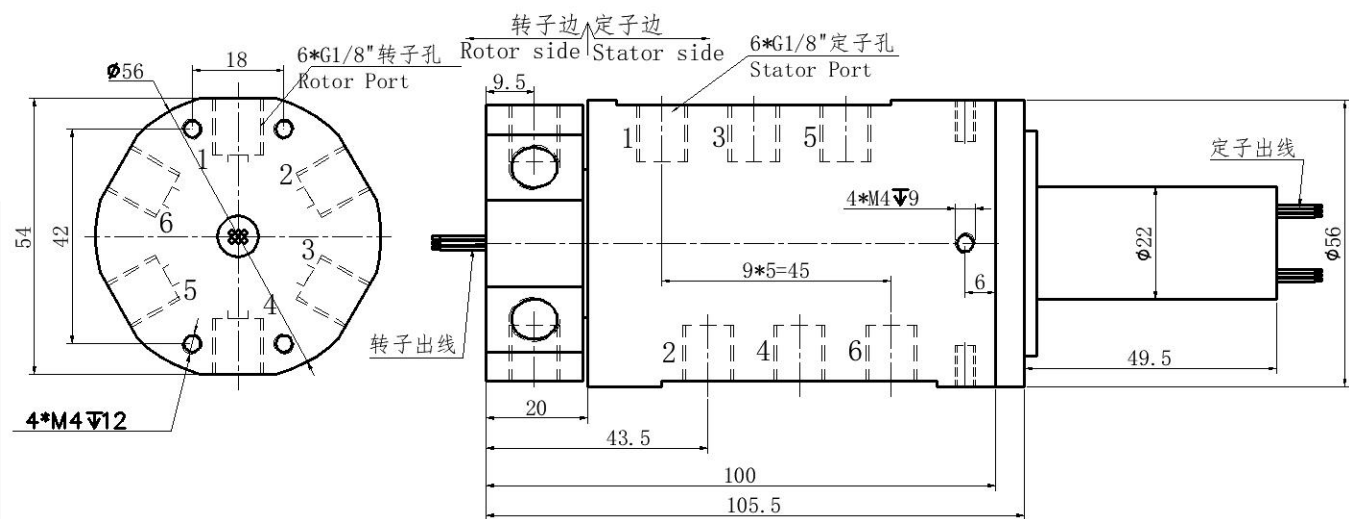
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q6P01-12PS	6	G1/8"	6-8mm	-80KPa-0.8MPa	12-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q6P01-18PS	6	G1/8"	6-8mm	-80KPa-0.8MPa	18-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q6P01-24PS	6	G1/8"	6-8mm	-80KPa-0.8MPa	24-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q6P01-36PS	6	G1/8"	6-8mm	-80KPa-0.8MPa	36-way	2A	Side

Technical Specifications

Electrical parameters	Parameter Value	Gas parameters	Parameter Value
Dielectric strength	500VCA@50Hz, 60s	Number of trachea	6 in 6 out
Insulation resistance	$\geq 500M\Omega/300VDC$	Pressure	-80KPa-0.8MPa or vacuum
Dynamic resistance change value	$< 10m\Omega$	Rotational torque	$< 0.5N.m$
Rated voltage	0 ~ 440VDC/VAC	Rotation speed	250rpm
Wire Specifications	AWG28 Teflon wire (depending on the specific current)	Shell material	Aluminum Alloy
Wire length	Default 250mm (Customizable)	Temperature	-30°C ~ +80°C
Contact material	Precious metal contacts	Operating humidity	0 ~ 85%RH
Protection level	IP51		

Color code table for each loop conductor

Loop	1	2	3	4	5	6	7	8	9	10	11	12
Color	black	brown	red	orange	yellow	green	blue	Purple	grey	White	White and red	Light blue
Note: 12 colors form a group, loop 1 to 12, the next group repeats the first 12 colors, each group is distinguished by a number tube as the group number												

Product Customization Options

Mechanical structure	The rotor and stator lead-out method and lead-out length can be requested
	The inner diameter, outer diameter and length of the product can be requested
	The outlet wires can be connected to aviation plugs, terminals, heat shrink tubing, etc.
	The material used for the housing can be requested, such as stainless steel, insulating material, etc.
Usage Environment	High temperature slip rings for use in high temperature environments
	Waterproof slip rings are required in dust and water proof environments. The protection level can be IP65 or IP68.
	High-speed slip rings used in high-speed equipment, with speeds up to 5000rpm
Electrical properties	Any number of slip rings can be customized as required, with a maximum of 200 lines.
	Various types of private server system signals, power lines, encoder lines and other hybrid slip rings can be customized
	Various types of high-speed data transmission slip rings can be customized, such as Ethernet, USB, RS232, CanBus and other industrial buses
	High current slip rings can be customized according to the current size
	High voltage slip rings can be customized according to voltage
Gas slip ring parameters	Customizable gas, liquid, oil, high pressure gas slip rings
	The outer diameter of the slip ring, the size of the center hole, the size of the air pipe and other parameters can be customized
	The air hole parameters such as air inlet and outlet mode, air inlet and outlet position can be customized
	The torque can be adjusted according to the needs

8 channel series gas electric slip ring

The Q series gas-electric slip ring is a high-performance integrated rotary joint designed for rotating equipment that needs to synchronously transmit power, signals and gas/liquid media. This series of products adopts a modular design, supports multi-channel electrical and gas-liquid mixed transmission, and has high sealing, low resistance conduction and long life. It can effectively solve the cable winding and medium leakage problems in complex rotating systems and is suitable for high-precision fields such as industrial automation, medical equipment, and new energy equipment.



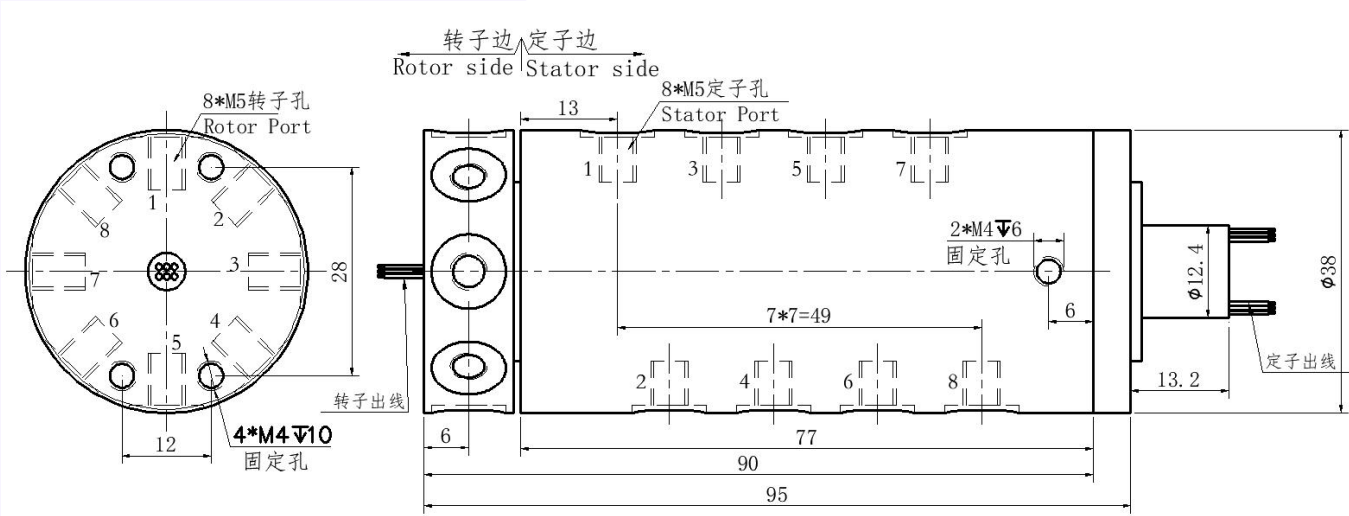
Ordering Model Description

Q8P	M5	-	6P	S
Q : Q means Q series gas-electric slip ring. 8P: 8P means 8 channel.	M5: M5 indicates the interface size, M5 air pipe interface. 0 1: indicates G1/8" interface		6P: 6P means there are 6 circuit	S: Indicates that it can pass 2A of current.

Standard Model Selection Table

Model	Gas channel	Circuit Channel	Current	Outer diameter	Length
Q8PM5-6PS	8 in 8 out	6-way	2A	38mm	108.2mm
Q8PM5-12PS	8 in 8 out	12-way	2A	38mm	114.8mm
Q8PM5-18PS	8 in 8 out	18-way	2A	38mm	118.9mm
Q8P01-6PS	8 in 8 out	6-way	2A	56mm	136.7mm
Q8P01-12PS	8 in 8 out	12-way	2A	56mm	143.3mm
Q8P01-18PS	8 in 8 out	18-way	2A	56mm	147.4mm
Q8P01-24PS	8 in 8 out	24-way	2A	56mm	158.1mm
Q8P01-36PS	8 in 8 out	36-way	2A	56mm	173mm

M5 interface gas-electric slip ring dimensions (6-way, 12-way, 18-way)



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q8PM5-6PS	8	M5	4-6mm	-80KPa-0.8MPa	6-way	2A	Side

Technical drawing of a motor assembly showing the rotor and stator components.

Rotor (Left):

- Overall width: 54
- Inner width: 42
- Port diameter: $\phi 56$
- Port spacing: 18
- Ports: 8*G1/8" 转子孔 (Rotor Port)
- Mounting holes: 4*M4 ∇ 12
- Label: 转子出线 (Rotor output)

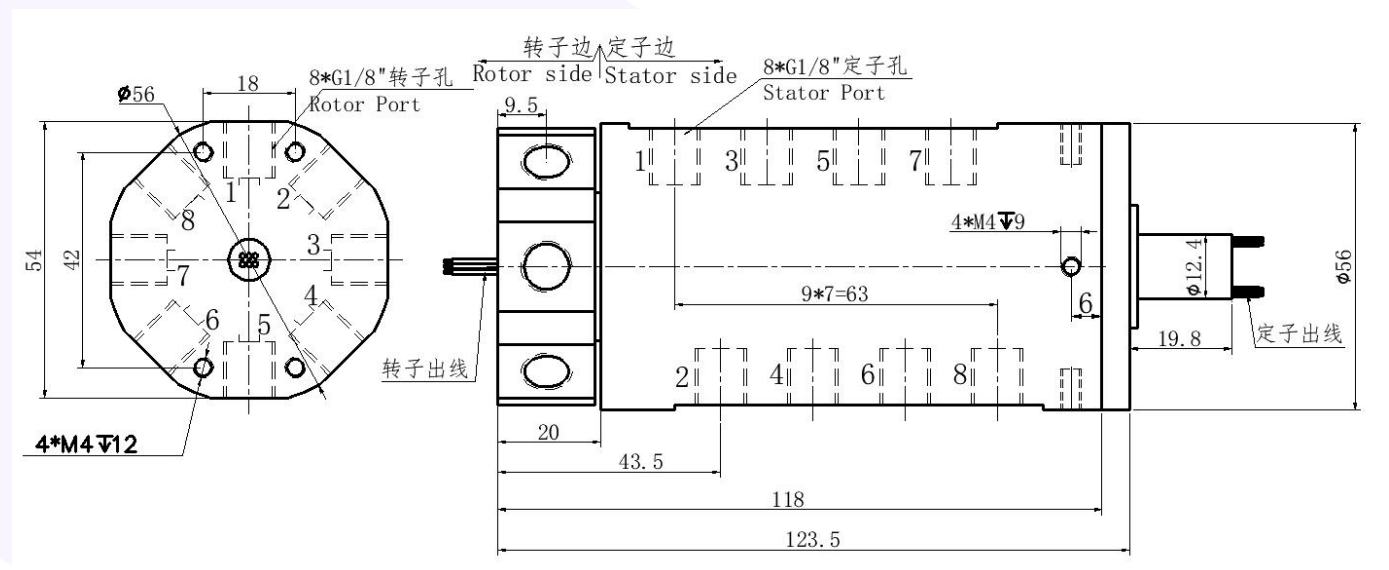
Stator (Right):

- Overall width: 123.5
- Inner width: 118
- Port diameter: $\phi 56$
- Port spacing: 9.5
- Ports: 8*G1/8" 定子孔 (Stator Port)
- Mounting holes: 4*M4 ∇ 9
- Label: 定子出线 (Stator output)

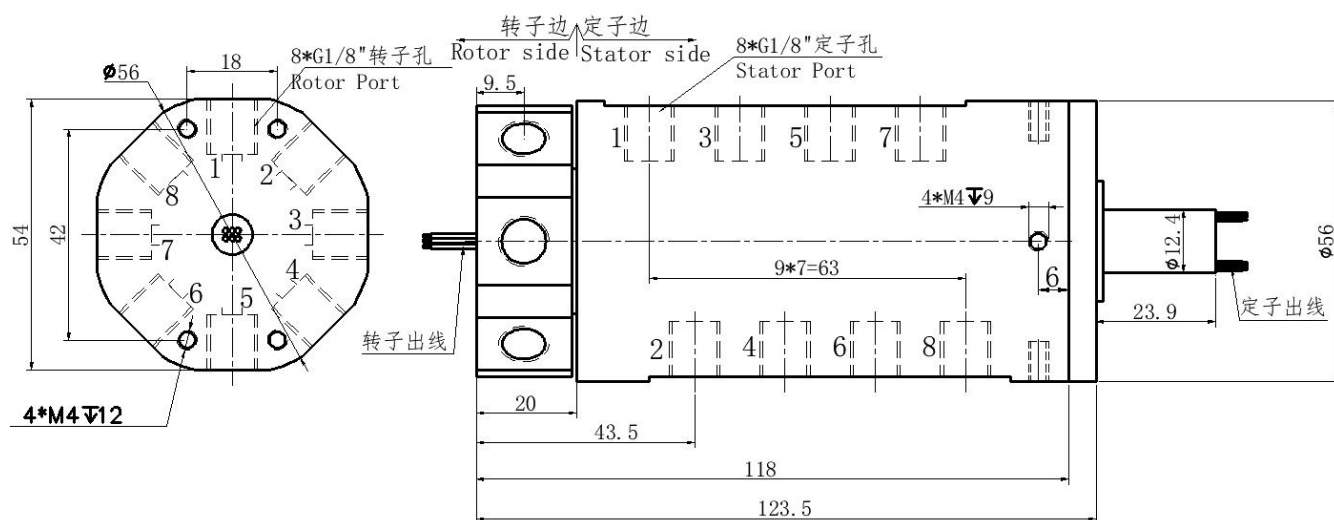
Dimensions and Labels:

- Stator side width: 43.5
- Stator side width: 20
- Stator side width: 9*7=63
- Stator side width: 13.2
- Stator side width: 12.4
- Stator side width: 6
- Stator side width: 9.5
- Stator side width: 118
- Stator side width: 123.5
- Stator side width: 43.5
- Stator side width: 20
- Stator side width: 9*7=63
- Stator side width: 13.2
- Stator side width: 12.4
- Stator side width: 6
- Stator side width: 9.5
- Stator side width: 118
- Stator side width: 123.5

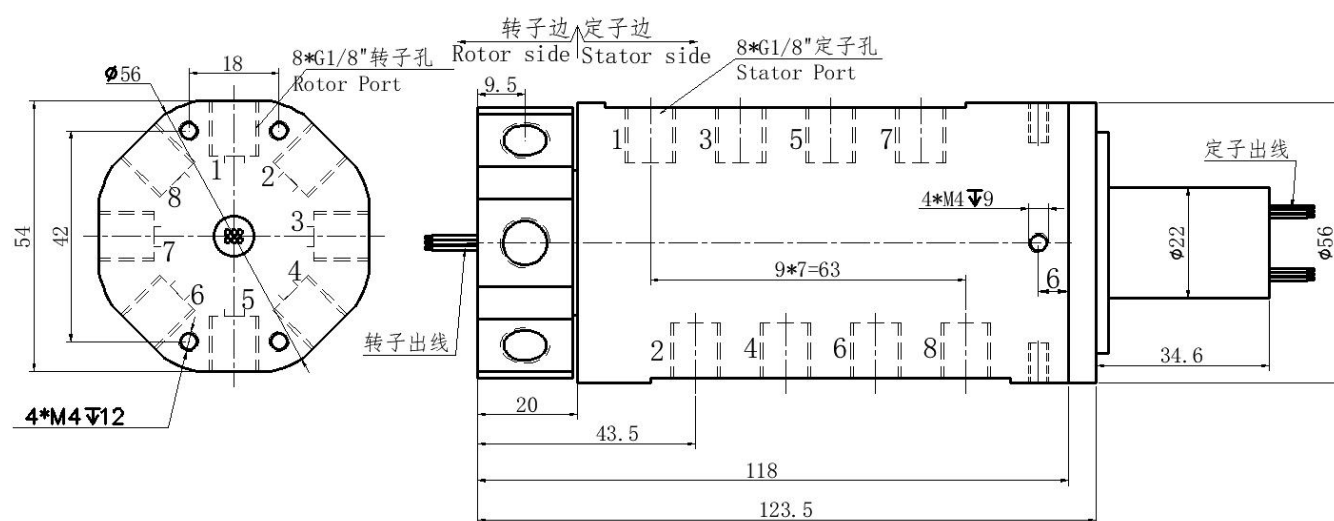
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q8P01-6PS	8	G1/8"	6-8mm	-80KPa-0.8MPa	6-way	2A	Side



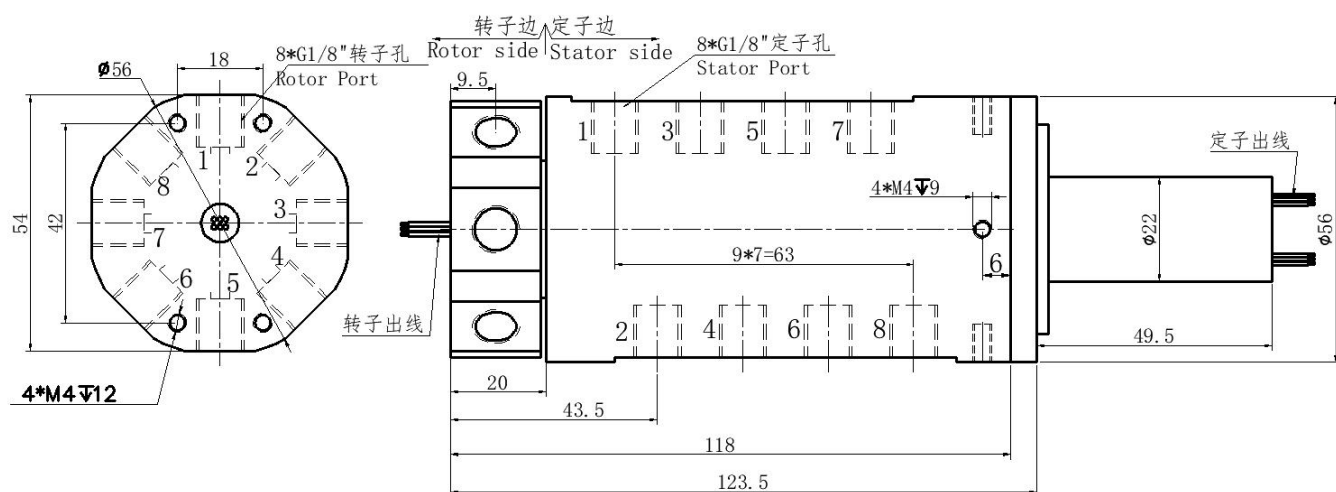
Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q8P01-12PS	8	G1/8"	6-8mm	-80KPa-0.8MPa	12-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q8P01-18PS	8	G1/8"	6-8mm	-80KPa-0.8MPa	18-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q8P01-24PS	8	G1/8"	6-8mm	-80KPa-0.8MPa	24-way	2A	Side



Model	Air channel	Interface Specifications	Applicable trachea	Pressure Range	Circuit	Current	Air hole position
Q8P01-36PS	8	G1/8"	6-8mm	-80KPa-0.8MPa	36-way	2A	Side

Technical Specifications

Electrical parameters	Parameter Value	Gas parameters	Parameter Value
Dielectric strength	500VCA@50Hz, 60s	Number of trachea	8 in 8 out
Insulation resistance	$\geq 500\text{M}\Omega/300\text{VDC}$	Pressure	-80KPa-0.8MPa or vacuum
Dynamic resistance change value	$< 10\text{m}\Omega$	Rotational torque	$< 0.5\text{N.m}$
Rated voltage	0 ~ 440VDC/VAC	Rotation speed	250rpm
Wire Specifications	AWG28 Teflon wire (depending on the specific current)	Shell material	Aluminum Alloy
Wire length	Default 250mm (Customizable)	Temperature	-30°C ~ +80°C
Contact material	Precious metal contacts	Operating humidity	0 ~ 85%RH
Protection level	IP51		

Color code table for each loop conductor

Loop	1	2	3	4	5	6	7	8	9	10	11	12
Color	black	brown	red	orange	yellow	green	blue	Purple	grey	White	White and red	Light blue
Note: 12 colors form a group, loop 1 to 12, the next group repeats the first 12 colors, each group is distinguished by a number tube as the group number												

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	The air hole parameters such as air inlet and outlet mode, air inlet and outlet position can be customized
	The torque can be adjusted according to the needs