

Capsule Slip Ring - HM Series

Slip rings of the HM series are specially fit for small or miniature rotating system of transmitting low controlling signal. Applies noble precious metal reduced noises and interference between circuits, low friction torque assures long life-span.



Features

- ◆ Compact design
- ◆ No maintenance
- ◆ Operating smoothly and reliability
- ◆ Extremely low electrical noise
- ◆ Convenient to assembly
- ◆ Compatible with data bus protocols
- ◆ Precious metal contact ensures long life-span

Typical application

- ◆ Electrical test equipment
- ◆ Manufacturing and process control equipment
- ◆ Indexing tables, Cable reels
- ◆ Robotics, rotary sensors, urgent illumination equipment
- ◆ Exhibit / display equipment
- ◆ CCTV pan
- ◆ Laboratory equipment
- ◆ Aviation, military, marine and medical equipment
- ◆ Wind generator

Options

- ◆ Operation speed, current & voltage
- ◆ Connector
- ◆ Type of Flange
- ◆ No. of circuits
- ◆ Housing material
- ◆ Position of wire outlet
- ◆ Protection level (dust and water)
- ◆ Power ring with 5A, 10A, 15A and 20A is available upon 2A rings combination
- ◆ Compatible with FORJ, RF, digital signal, analog signal, data bus protocols, Ethernet signal and so on.

Standard Model for HM series

Model	No. of Rings	Rated Current	Rated Voltage	OD(mm)	RPM	IP rating
HM006	4-12	0.6A	0~240V	6.5	0~250	IP51
HM012	6-18	2A~10A	0~240V	12.0	0~250	IP51
HM015	6-24	2A~10A	0~240V	15.0	0~250	IP51
HM020	12-18	2A~10A	0~240V	20.0	0~250	IP51
HM022	6-36	2A~20A	0~240V	22.0	0~250	IP51
HM025	30-82	2A~20A	0~240V	25.0	0~250	IP51

Product Code

For standard versions	<u>HM</u>	<u>XXX</u>	–	<u>XX</u>	<u>X</u>	<u>F</u>	–	<u>XP</u>	/	<u>XS</u>	–	<u>XX</u>	–	<u>XXX</u>
	①	②		③	④	⑤	⑥	⑦	⑧	⑨				
① Series														
② Outer dimension of housing Eg, XXX= 022, the OD is 22mm														
③ Number of rings Eg, XXX= 24, the number of rings are 24														
④ Flange type														
⑤ F=flange Reverse loading														
⑥ Number of power rings Eg, X is the number of the power rings, P=10A, P1=15A, P2=20A														
⑦ Number of signal rings Eg, X is the number of signal rings														
⑧ SW=made of single wire technology, no SW means made of multiple brush technology														
⑨ Special options														

Specifications

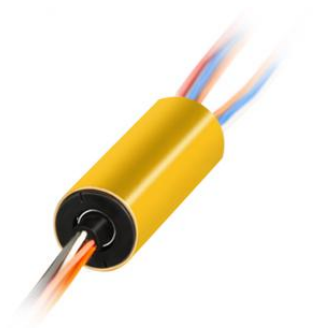
Electrical Data		Mechanical Data	
Rated Voltage	0~240 VAC/VDC	Max. Speed	0-250RPM
Rated Current	0.6A~20A/ring	Working Temperature	-20℃~+80℃
Lead Size	AWG32,AWG30,AWG26,AWG16,AWG14 Sliver plated Teflon colour coded	Working Humidity	60% RH or higher
Lead Length	Standard 250mm (adjustable)	Housing Material	Engineering plastic
Dielectric Strength	500VAC@50HZ,60S	Contact material	Gold to gold
Insulation Resistance	500MΩ/500VDC		
Electrical Noise	<0.01Ω		

Lead Wires Color Code

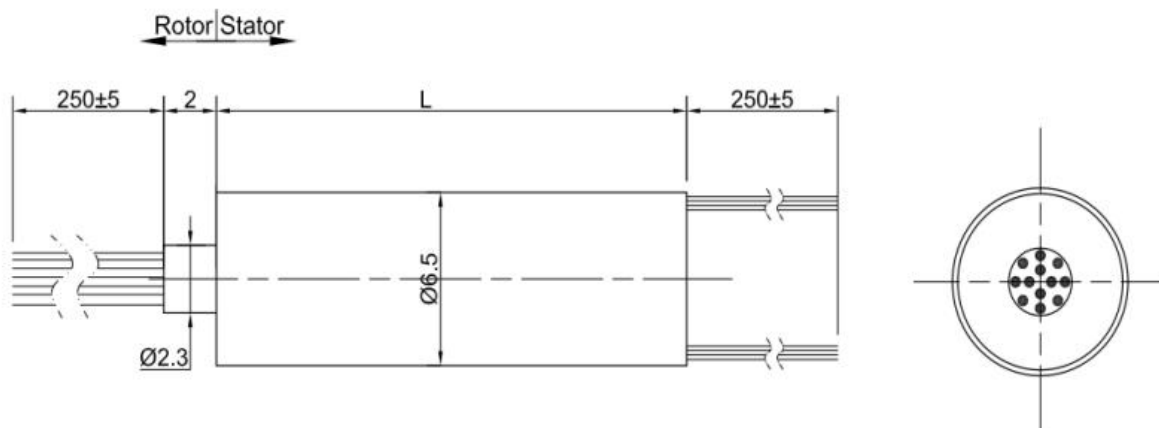
Ring#	1	2	3	4	5	6	7	8	9	10	11	12
Color	RED	BLK	WHT	YEL	GRN	BLU	PUP	GRY	BRN	ORN	DBLU	KHK
Ring#	13	14	15	16	17	18	19	20	21	22	23	24
Color	WHT-RED	WHT-BLK	WHT-BLU	WHT-PUP	WHT-BRN	WHT-GRN	WHT-ORN	WHT-YEL	WHT-GRY	WHT-RED	WHT-BLU	WHT-GRN

HM006 Series

HM006 series is a mini capsule slip ring with OD 6.5mm (4~12 rings optional), length 12mm to 17.4mm. Gold to gold contact material ensures low contact resistance, low torque and reliable performance.



Outline Dimension



Model List

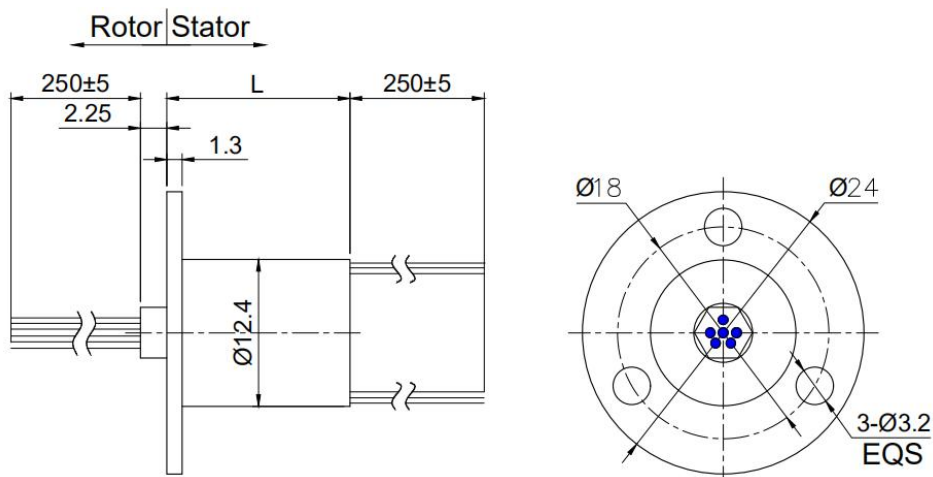
Model	No. of Rings	Rated Current	Rated Voltage	Length (mm)
HM006-4Q-SW	4	1A	0~240V	12.0
HM006-6Q-SW	6	1A	0~240V	12.0
HM006-8Q-SW	8	1A	0~240V	12.0
HM006-12Q-SW	12	0.6A	0~240V	17.4

HM012 Series

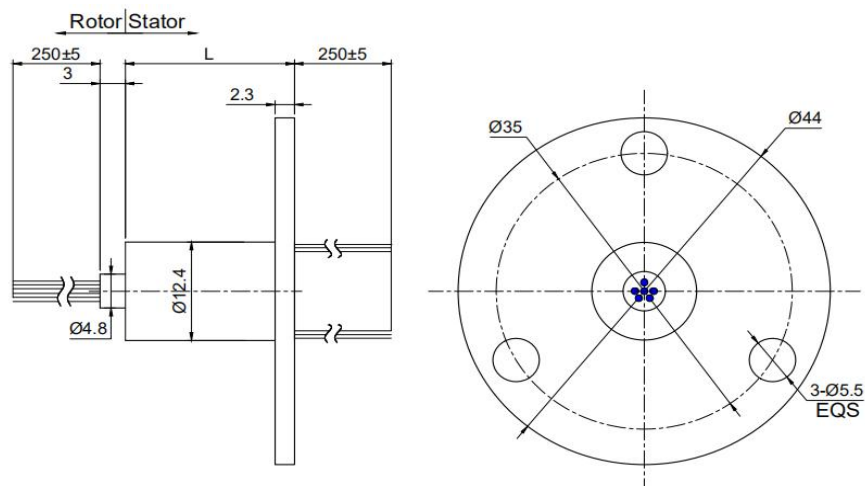
HM012 series is a mini capsule slip ring with OD 12mm (6~18 rings optional), length 15.6mm to 24.8mm. Gold to gold contact material ensures low contact resistance, low torque and reliable performance. Electrical power and signal transfer in one unit is workable for this series.



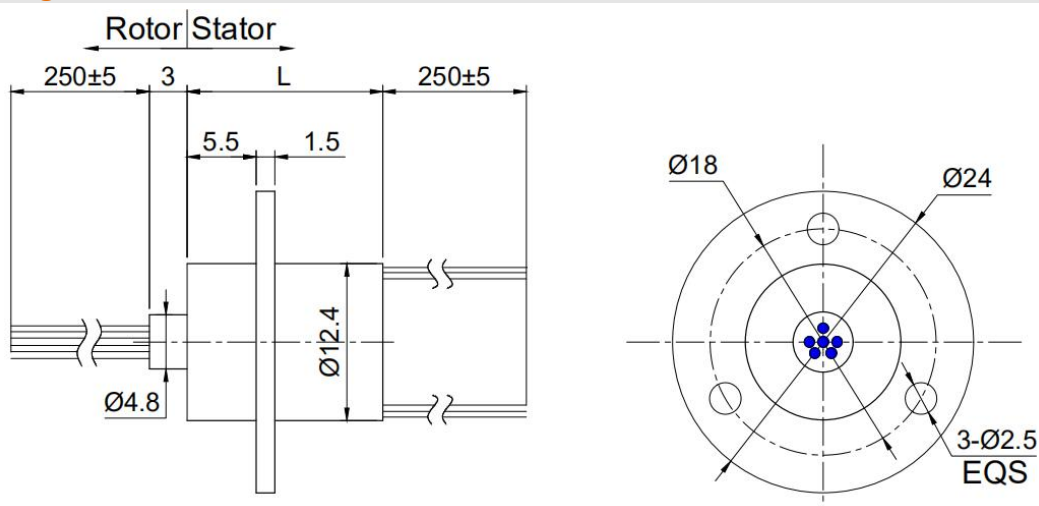
Drawing for Outline Dimension HM012-nA-SW



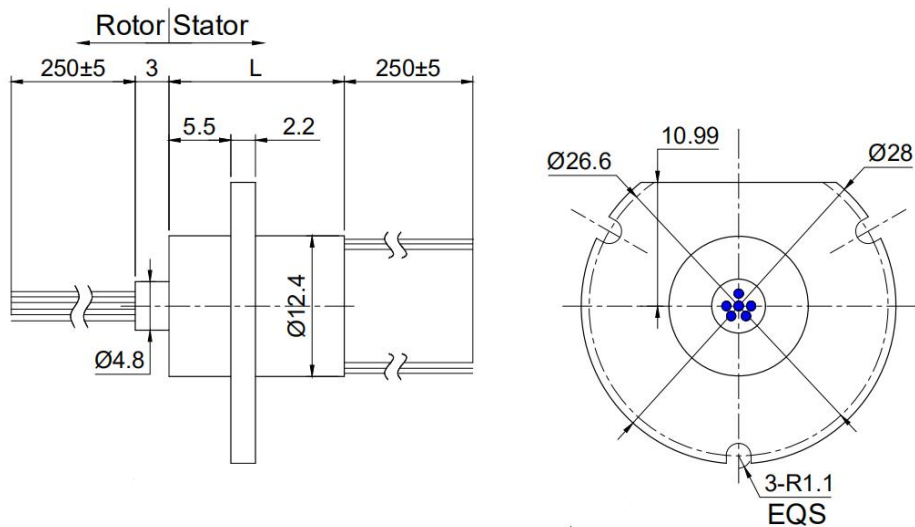
Drawing for Outline Dimension HM012-nA4F-SW



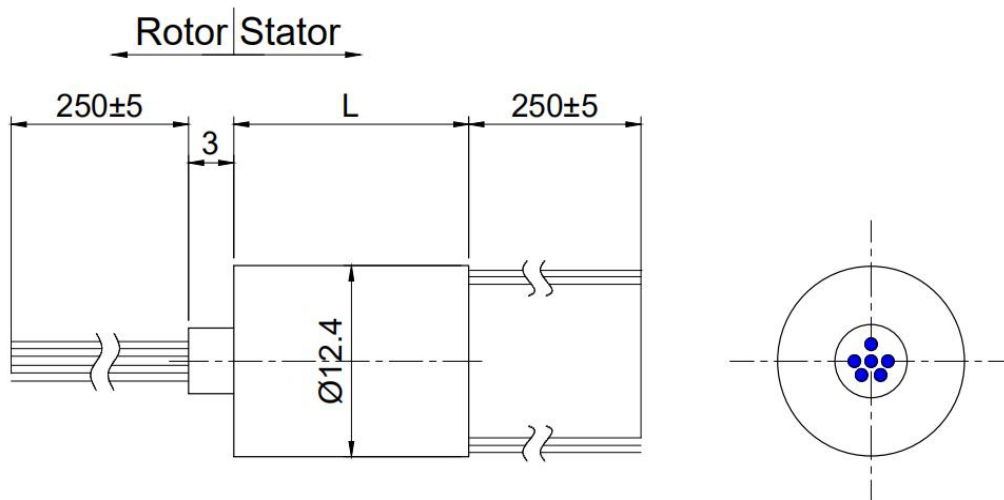
Drawing for Outline Dimension HM012-nB1-SW



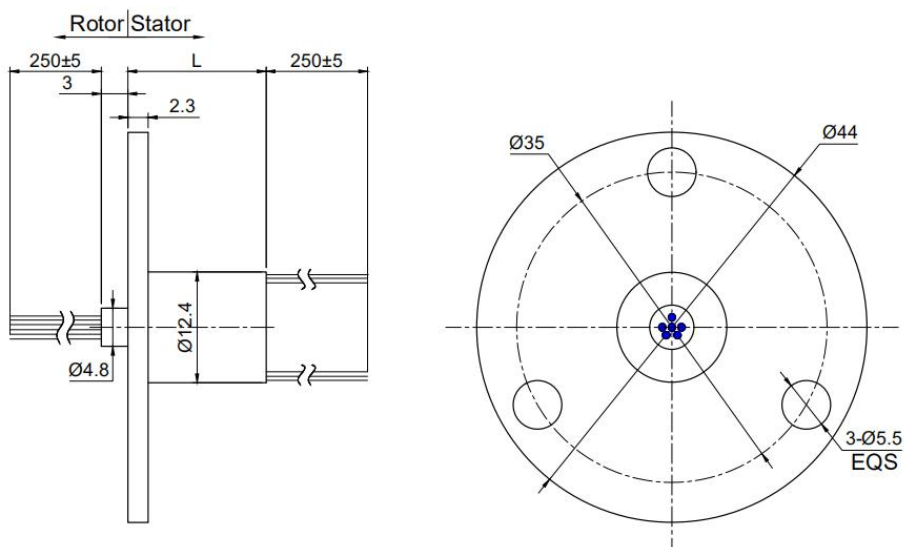
Drawing for Outline Dimension HM012-nB-SW



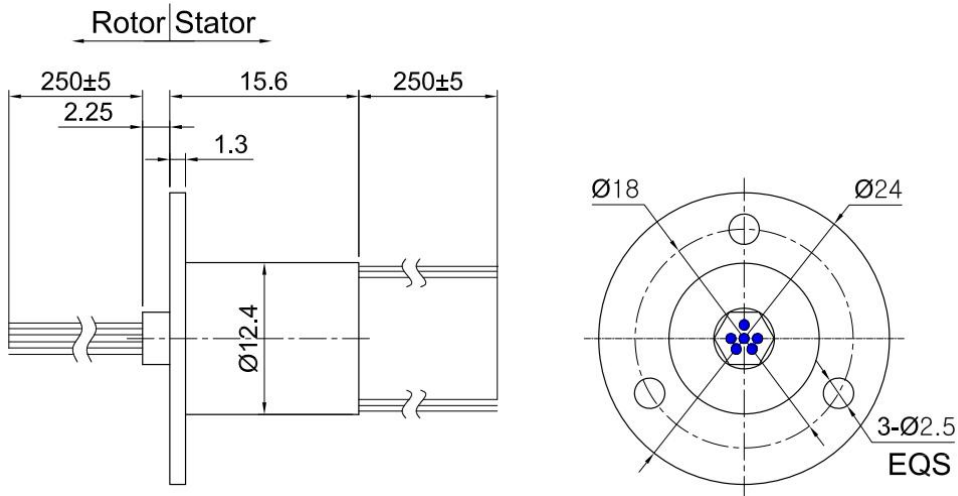
Drawing for Outline Dimension HM012-nQ-SW



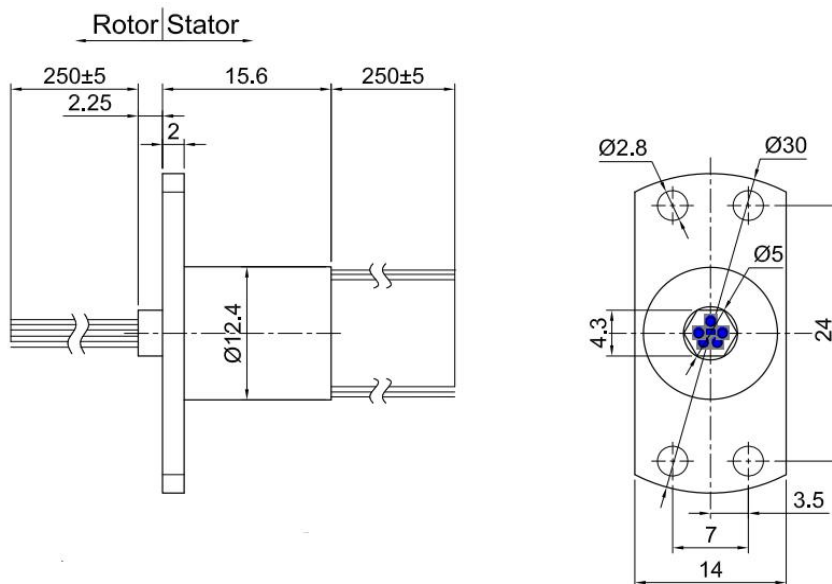
Drawing for Outline Dimension HM012-nA4-SW



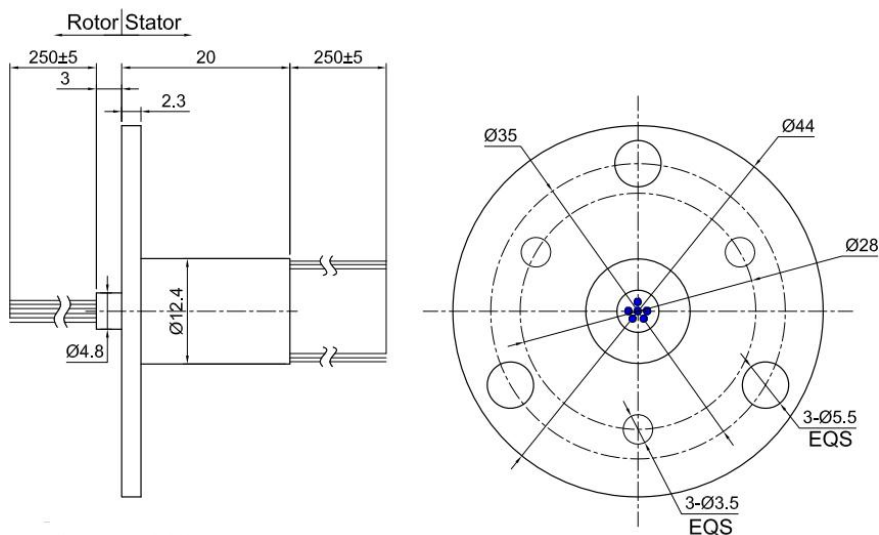
Drawing for Outline Dimension HM012-6A2-SW



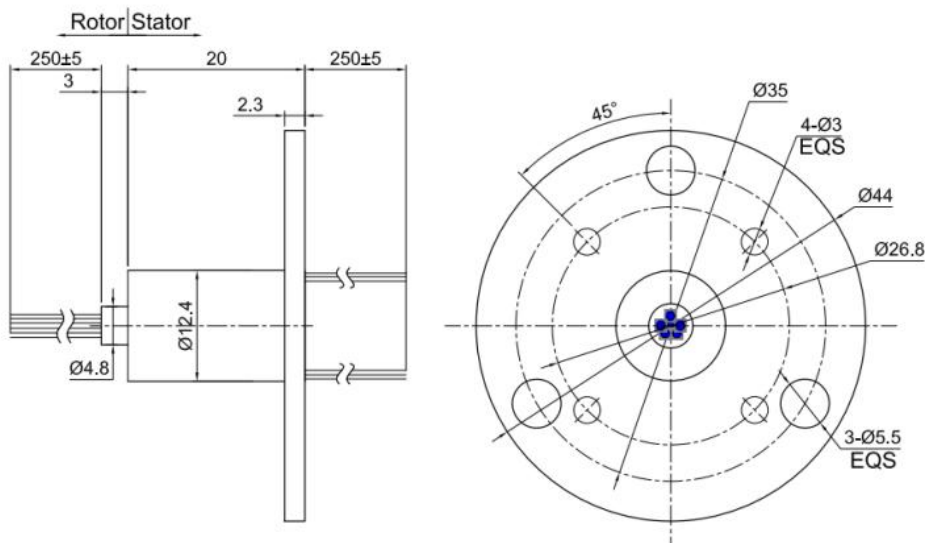
Drawing for Outline Dimension HM012-6B3-SW



Drawing for Outline Dimension HM012-12A11-SW



Drawing for Outline Dimension HM012-12A12F-SW



Model List

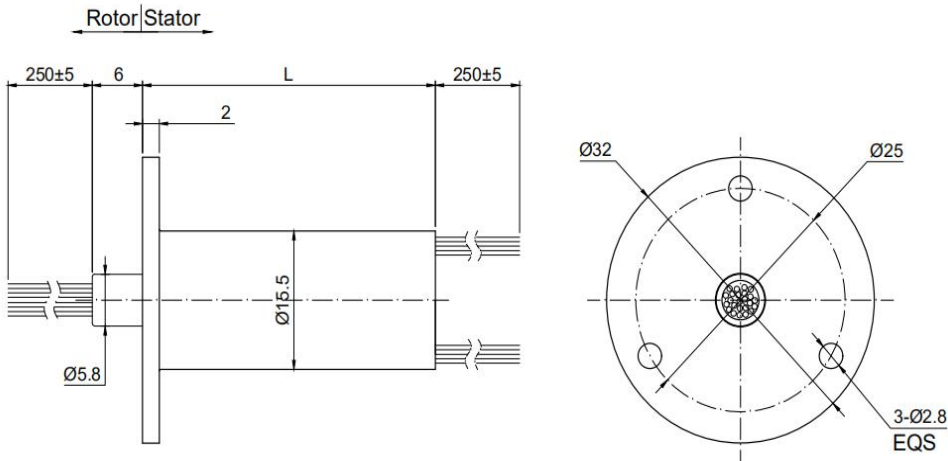
Model	No. of Rings	Rated Current	Rated Voltage	Length (mm)
HM012-6A-SW	2	2A	0~240V	15.6
HM012-12A-SW	12	2A	0~240V	20.0
HM012-18A-SW	18	2A	0~240V	24.8
HM012-6A4F-SW	6	2A	0~240V	17.4
HM012-12A4F-SW	12	2A	0~240V	15.6
HM012-18A4F-SW	18	2A	0~240V	20.0
HM012-6B1-SW	6	2A	0~240V	15.6
HM012-12B1-SW	12	2A	0~240V	20.0
HM012-6B-SW	6	2A	0~240V	15.6
HM012-12B-SW	12	2A	0~240V	20.0
HM012-18B-SW	18	2A	0~240V	24.8
HM012-6Q-SW	6	2A	0~240V	15.6
HM012-12Q-SW	12	2A	0~240V	20.0
HM012-18Q-SW	18	2A	0~240V	24.8
HM012-6A4-SW	6	2A	0~240V	15.6
HM012-12A4-SW	12	2A	0~240V	20.0
HM012-18A4-SW	18	2A	0~240V	24.8
HM012-6A2-SW	6	2A	0~240V	15.6
HM012-6B3-SW	6	2A	0~240V	15.6
HM012-12A11-SW	12	2A	0~240V	20.0
HM012-12A12F-SW	12	2A	0~240V	20.0

HM015 Series

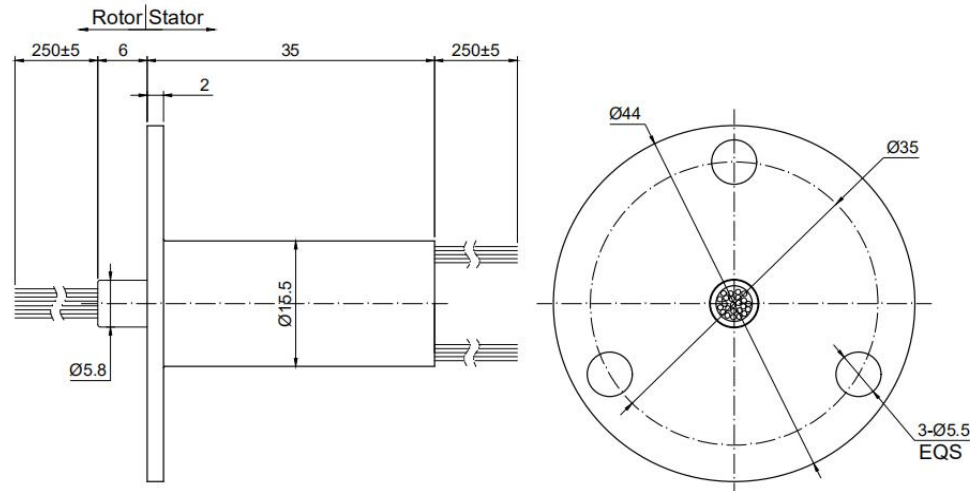
HM015 series is a mini capsule slip ring with OD 15mm (6~24 rings optional), length 35mm. Gold to gold contact material ensures low contact resistance, low torque and reliable performance. Electrical power and signal transfer in one unit is workable for this series.



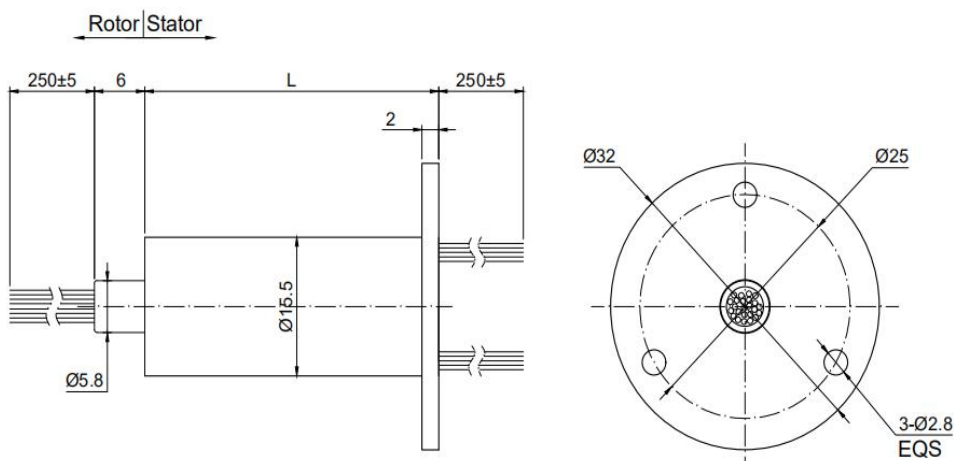
Drawing for Outline Dimension HM015-24A-n-SW



Drawing for Outline Dimension HM015-24A4-n-SW



Drawing for Outline Dimension HM015-24AF-n-SW



Model List

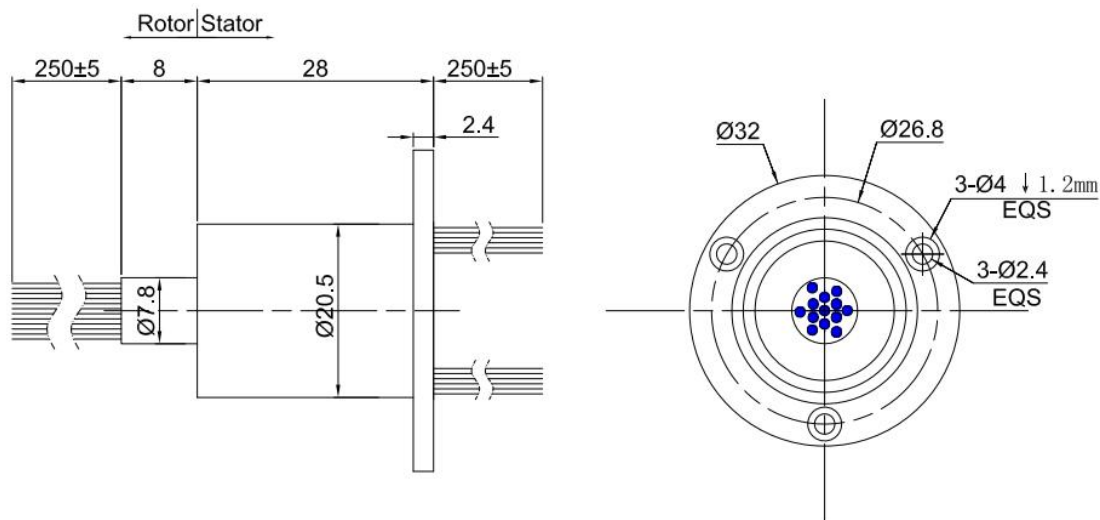
Model	No. of Signal 2A/ring	No. of Power 10A/ring	Rated Voltage	Length L(mm)
HM015-24A-6-SW	6	-	0~240V	35.0
HM015-24A-12-SW	12	-	0~240V	35.0
HM015-24A-15-SW	15	-	0~240V	35.0
HM015-24A-18-SW	18	-	0~240V	35.0
HM015-24A-24-SW	24	-	0~240V	35.0
HM015-24A-2P/4S-SW	4	2	0~110V	35.0
HM015-24AF-6-SW	6	-	0~240V	35.0
HM015-24AF-12-SW	12	-	0~240V	35.0
HM015-24AF-15-SW	15	-	0~240V	35.0
HM015-24AF-18-SW	18	-	0~240V	35.0
HM015-24AF-24-SW	24	-	0~240V	35.0
HM015-24AF-2P/4S-SW	4	2	0~110V	35.0
HM015-24A4-6-SW	6	-	0~240V	35.0
HM015-24A4-12-SW	12	-	0~240V	35.0
HM015-24A4-15-SW	15	-	0~240V	35.0
HM015-24A4-18-SW	18	-	0~240V	35.0
HM015-24A4-24-SW	24	-	0~240V	35.0
HM015-24A4-2P/4S-SW	4	2	0~110V	35.0

HM020 Series

HM020 series is a mini capsule slip ring with OD 20.5mm (6~18 rings optional), length 28mm to 33mm. Gold to gold contact material ensures low contact resistance, low torque and reliable performance. Electrical power and signal transfer in one unit is workable for this series.



Drawing for Outline Dimension HM020-nDF-SW



Model List

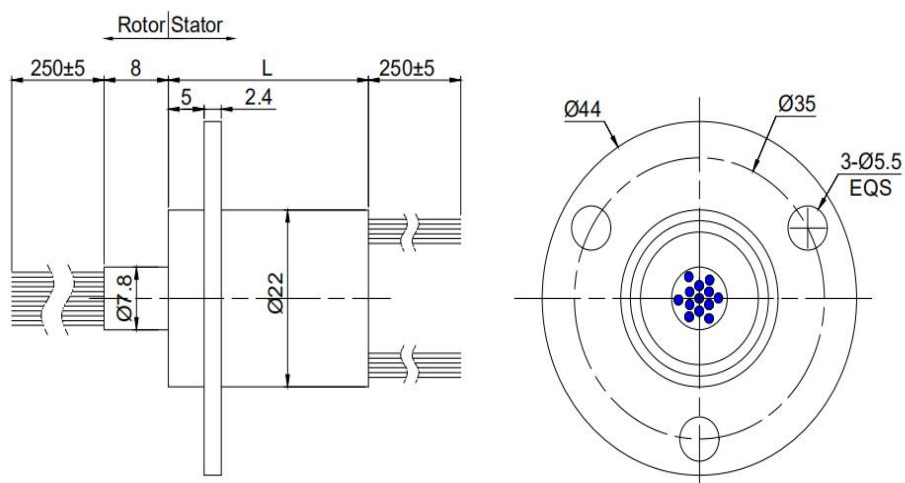
Model	No. of Rings 2A/ring	No. of Rings 10A/ring	Rated Voltage	Length L(mm)
HM020-6DF-SW	6	--	0~240V	28.00
HM020-12DF-SW	12	--	0~240V	28.00
HM020-18DF-SW	18	--	0~240V	33.00
HM020-18DF-2P/4S-SW	4	2	0~240V	33.00

HM022 Series

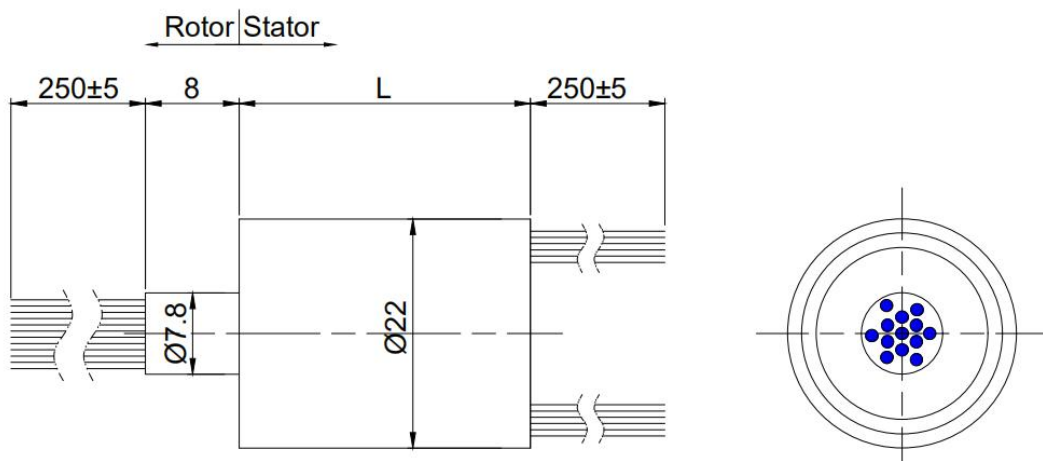
HM022 series is a mini capsule slip ring with OD 22mm (6~36 rings optional), length 28mm to 56.3mm. Gold to gold contact material ensures low contact resistance, low torque and reliable performance. Electrical power and signal transfer in one unit is workable for this series.



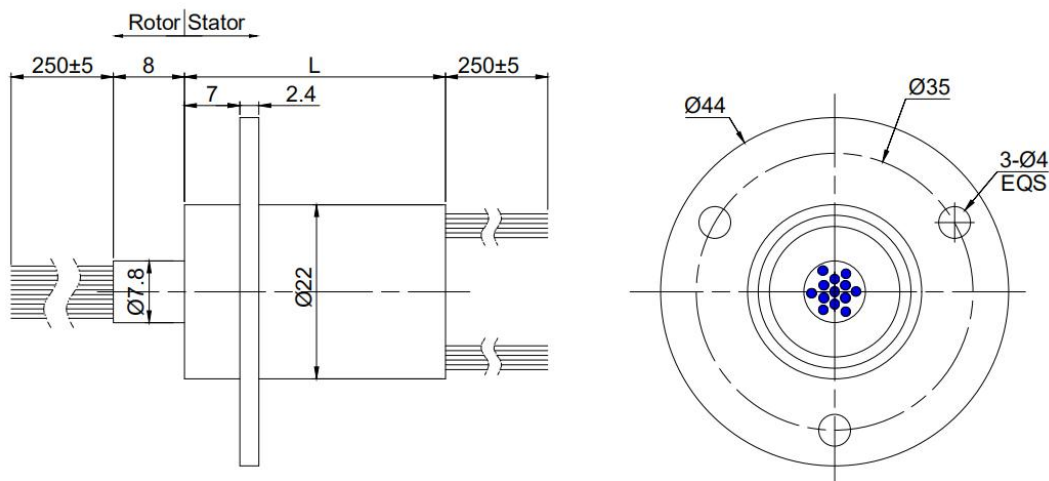
Drawing for Outline Dimension HM022-n-SW



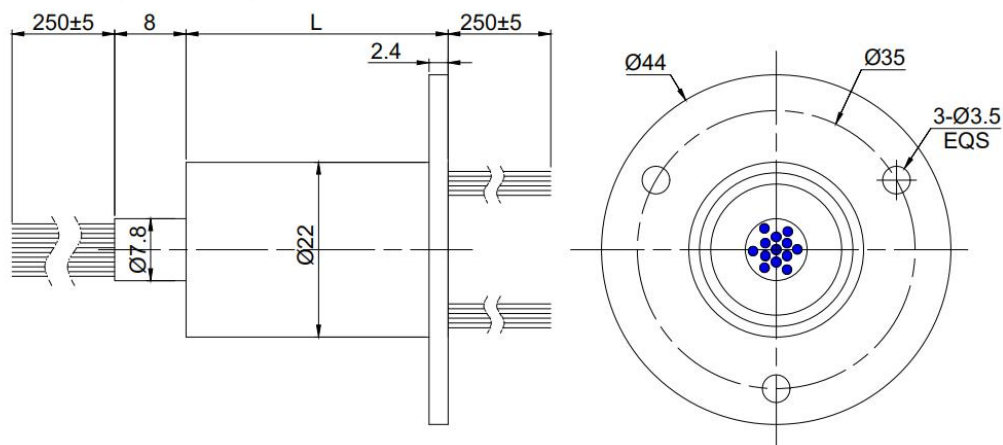
Drawing for Outline Dimension HM022-nQ-SW



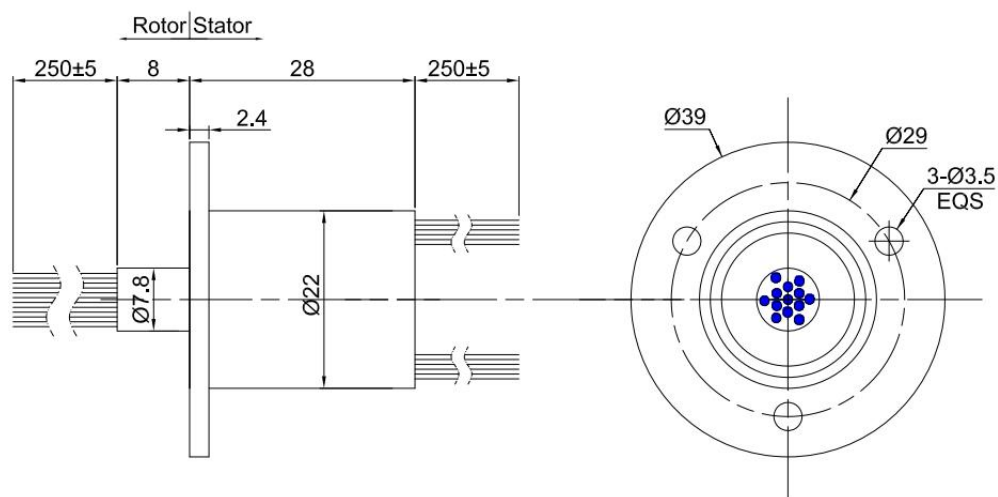
Drawing for Outline Dimension HM022-nC-SW



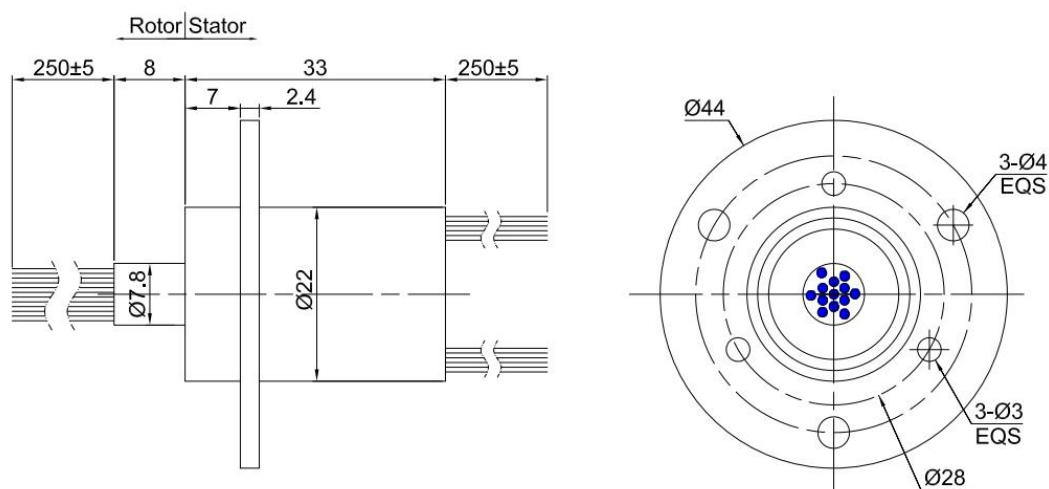
Drawing for Outline Dimension HM022-nB1F-SW



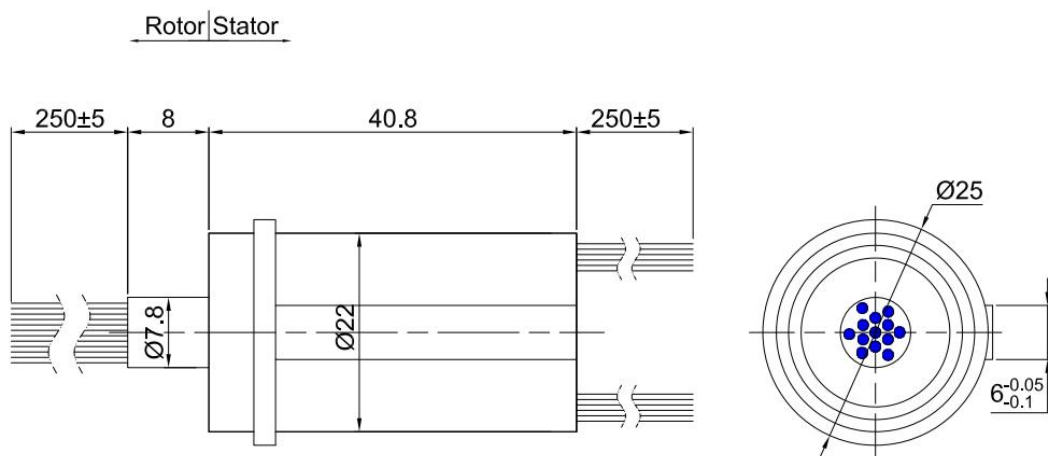
Drawing for Outline Dimension HM022-12A2-SW



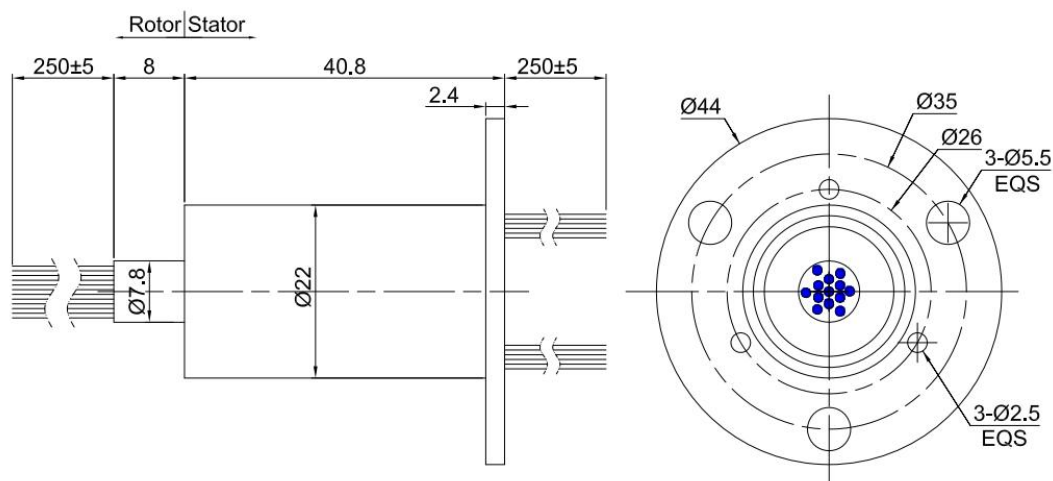
Drawing for Outline Dimension HM022-18C6-SW



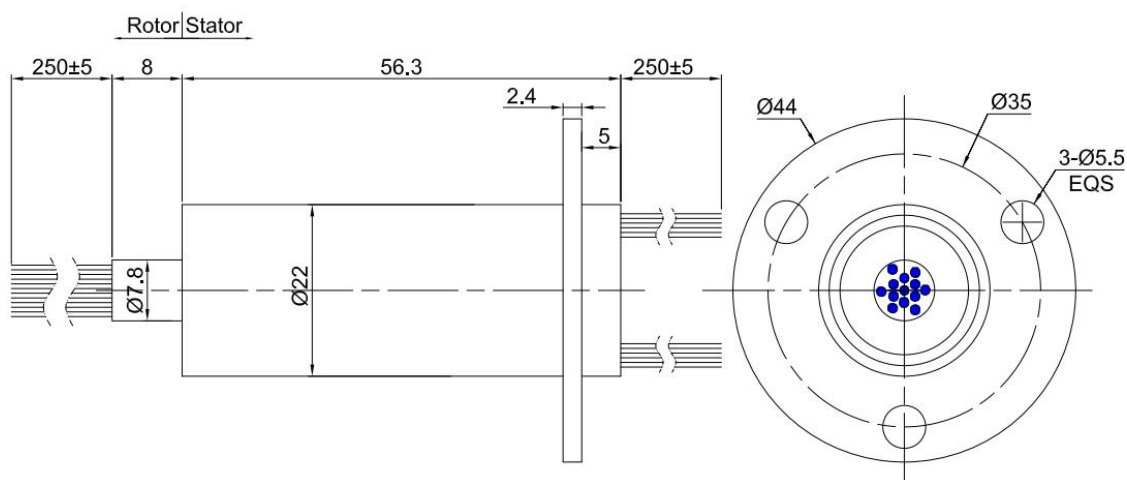
Drawing for Outline Dimension HM022-24A3-SW



Drawing for Outline Dimension HM022-24B16F-SW



Drawing for Outline Dimension HM022-36B1F-SW



Model List

Model	No. of Rings 2A/ring	No. of Rings 10A/ring	No. of Rings 20A/ring	Rated Voltage	Length(mm)
HM022-6-SW	6			0~240V	28.0
HM022-12-SW	12			0~240V	28.0
HM022-15-SW	15			0~240V	33.0
HM022-18-SW	18			0~240V	33.0
HM022-24-SW	24			0~240V	40.8
HM022-36-SW	36			0~240V	56.3
HM022-18-2P/4S-SW	4	2		0~240V	33.0
HM022-24-2P/10S-SW	10	2		0~240V	40.8
HM022-24-3P/3S-SW	3	3		0~240V	40.8
HM022-36-2P/22S-SW	22	2		0~240V	56.3
HM022-36-3P/15S-SW	15	3		0~240V	56.3
HM022-36-4P/8S-SW	8	4		0~240V	56.3
HM022-36-2P2/6S-SW	6		2	0~240V	56.3
HM022-6Q-SW	6			0~240V	28.0
HM022-12Q-SW	12			0~240V	28.0
HM022-15Q-SW	15			0~240V	33.0
HM022-18Q-SW	18			0~240V	33.0
HM022-24Q-SW	24			0~240V	40.8
HM022-36Q-SW	36			0~240V	56.3
HM022-18Q-2P/4S-SW	4	2		0~240V	33.0
HM022-24Q-2P/10S-SW	10	2		0~240V	40.8
HM022-24Q-3P/3S-SW	3	3		0~240V	40.8
HM022-36Q-2P/22S-SW	22	2		0~240V	56.3
HM022-36Q-3P/15S-SW	15	3		0~240V	56.3
HM022-36Q-4P/8S-SW	8	4		0~240V	56.3
HM022-36Q-2P2/6S-SW	6		2	0~240V	56.3
HM022-6C-SW	6			0~240V	28.0
HM022-12C-SW	12			0~240V	28.0
HM022-15C-SW	15			0~240V	33.0
HM022-18C-SW	18			0~240V	33.0
HM022-18C-2P/4S-SW	4	2		0~240V	33.0
HM022-6B1F-SW	6			0~240V	28.0
HM022-12B1F-SW	12			0~240V	28.0
HM022-15B1F-SW	15			0~240V	33.0
HM022-18B1F-SW	18			0~240V	33.0
HM022-24B1F-SW	24			0~240V	40.8

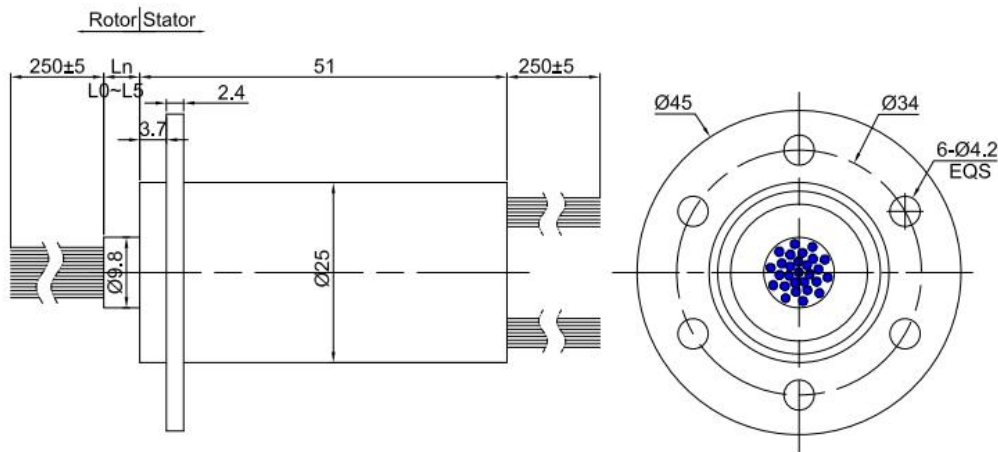
HM022-18B1F-2P/4S-SW	4	2		0~240V	33.0
HM022-24B1F-2P/10S-SW	10	2		0~240V	40.8
HM022-24B1F-3P/3S-SW	3	3		0~240V	40.8
HM022-12A2-SW	12			0~240V	28.0
HM022-18C6-SW	18			0~240V	33.0
HM022-18C6-2P/4S-SW	4	2		0~240V	33.0
HM022-24A3-SW	24			0~240V	40.8
HM022-24A3-2P/10S-SW	10	2		0~240V	40.8
HM022-24A3-3P/3S-SW	3	3		0~240V	40.8
HM022-24B16-SW	24			0~240V	40.8
HM022-24B16-2P/10S-SW	10	2		0~240V	40.8
HM022-24B16-3P/3S-SW	3	3		0~240V	40.8
HM022-36B1F-SW	36			0~240V	56.3
HM022-36B1F-2P/8S-SW	22	2		0~240V	56.3
HM022-36B1F-3P/15S-SW	15	3		0~240V	56.3
HM022-36B1F-4P/8S-SW	8	4		0~240V	56.3
HM022-36B1F-2P2/6S-SW	6		2	0~240V	56.3

HM025 Series

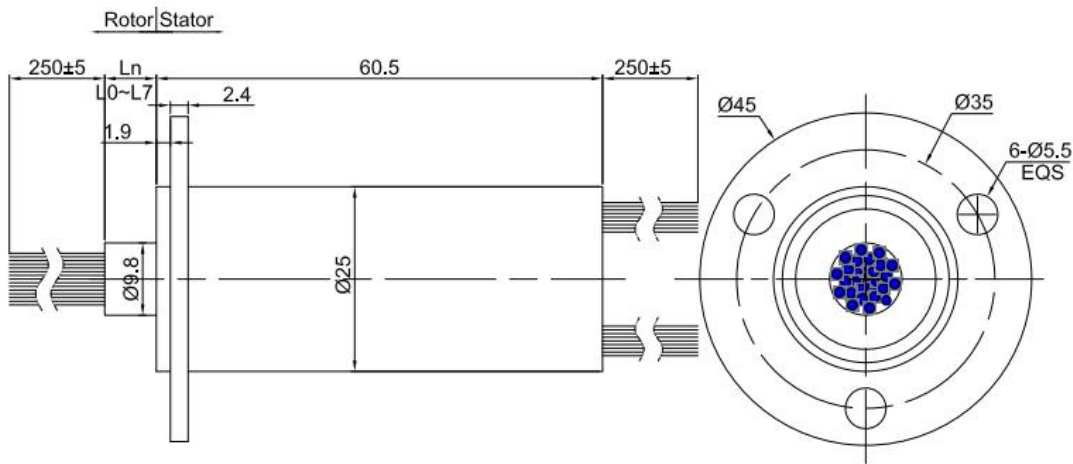
HM025 series is a capsule slip ring with OD 25mm (2~82 rings optional), length 51mm to 89.5mm. Gold to gold contact material ensures low contact resistance, low torque and reliable performance. Electrical power and signal transfer in one unit is workable for this series.



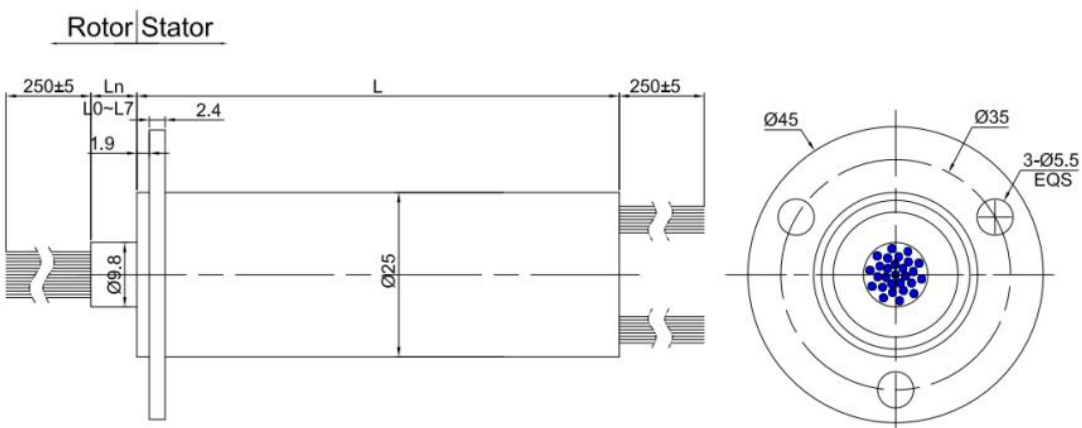
Drawing for Outline Dimension HM025-30



Drawing for Outline Dimension HM025-37B1



Drawing for Outline Dimension HM025-n



Model List

Model	No. of Rings 2A/ring	No. of Rings 10A/ring	No. of Rings 20A/ring	Rated Voltage	Length (mm)
HM025-30	30	--		0~240V	51.0
HM025-30-2P/16S	16	2		0~240V	51.0
HM025-30-3P/9S	9	3		0~240V	51.0
HM025-30-4P/2S	2	4		0~240V	51.0
HM025-30-2P2			2	0~240V	51.0
HM025-30-2P/18S	18	2		0~240V	51.0
HM025-30-3P/15S	15	3		0~240V	51.0
HM025-30-4P/12S	12	4		0~240V	51.0
HM025-30-5P/8S	8	5		0~240V	51.0
HM025-30-6P/5S	5	6		0~240V	51.0
HM025-30-7P/2S	2	7		0~240V	51.0
HM025-30-8P		8		0~240V	51.0
HM025-30-2P2/12S	12		2	0~240V	51.0
HM025-30-3P2/5S	5		3	0~240V	51.0
HM025-30-4P2			4	0~240V	51.0
HM025-37B1	37			0~240V	60.5
HM025-37B1-2P/23S	23	2		0~240V	60.5
HM025-37B1-3P/16S	16	3		0~240V	60.5
HM025-37B1-4P/9S	9	4		0~240V	60.5
HM025-37B1-5P/2S	2	5		0~240V	60.5
HM025-37B1-2P2/7S	7		2	0~240V	60.5
HM025-37B1-2P/25S	25	2		0~240V	60.5
HM025-37B1-3P/21S	21	3		0~240V	60.5
HM025-37B1-4P/17S	17	4		0~240V	60.5
HM025-37B1-5P/13S	13	5		0~240V	60.5
HM025-37B1-6P/10S	10	6		0~240V	60.5
HM025-37B1-7P/6S	6	7		0~240V	60.5
HM025-37B1-8P/3S	3	8		0~240V	60.5
HM025-37B1-2P2/23S	23		2	0~240V	60.5
HM025-37B1-3P2/19S	19		3	0~240V	60.5
HM025-37B1-4P2/15S	15		4	0~240V	60.5
HM025-47	47			0~240V	73.5
HM025-47-2P/27S	27	2		0~240V	73.5
HM025-47-3P/23S	23	3		0~240V	73.5
HM025-47-4P/19S	19	4		0~240V	73.5
HM025-47-5P/12S	12	5		0~240V	73.5
HM025-47-6P/5S	5	6		0~240V	73.5

HM025-47-2P2/17S	17		2	0~240V	73.5
HM025-47-3P2/2S	2		3	0~240V	73.5
HM025-47-6P2/10S	10		5	0~240V	73.5
HM025-47-6P2/5S	5		6	0~240V	73.5
HM025-59	59	--		0~240V	89.5
HM025-82	82	--		0~240V	89.5