

EM022 series miniture Gigabit Ethernet slip ring

1~2 channels 100M/1000M Ethernet+2~16 circuits power/signal



Senring EM022 series Gigabit Ethernet rotary joint,with integrated structure, solid, OD 22mm,can tranmit 1~2 channels Gigabit Ethernet signal accurately when 360° roating,It can be combined to transmit 1~16 circuits power(current 2~20A) and USB ,HDMI or other kinds of signal.Compared with similar products on market, with advantages of reliable transmitting,no packet loss,no string code,low return loss, low insertion loss,etc.Adopting US military plating technology, precious metal + ultra-hard gold plating, ultra-low BER error rate and ultra-high signal-to-noise ratio.

Part No. Description

EM022 - Ethernet channel No. - power circuits - signal circuits - Product grade

E:100M/1000M Part no. description
M means solid without hole,
M022:solid,OD 22mm

Examples:
01:1 channels 100M/1000M baseT
02:2 channels 100M/1000M baseT

Examples:
06S:6 circuits signal@2A(5A options)
12S:12 circuits signal@2A(5A options)

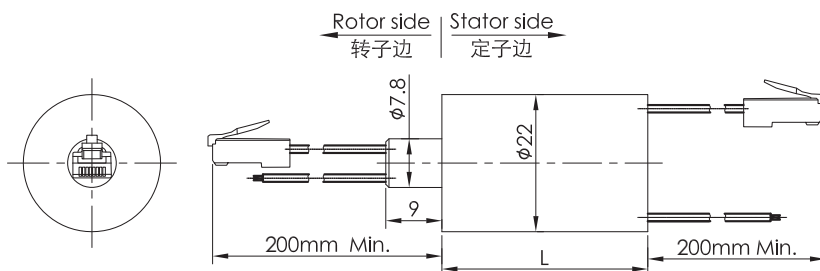
Examples:
0610:6 circuits@10A
1210:12 circuits@10A

C:standard
D:industrial

Examples

EM022-01-06S: EM022 means Gigabit Ethernet slip ring(solid,OD22mm),01 means 1 channel Gigabit Ethernet,06S means 6 circuits signal;

EM022-01F-0210-D: EM022 means Gigabit Ethernet slip ring (solid,OD22mm),01F means 1 channel 100M Ethernet,0210 means 2 circuits 10A each ,D means industrial grade;



Model List

Model	power/signal circuits no.			Ethernet channels no.		length L(mm)
	signal(2A)	power(5A)	power(20A)	100M Ethernet	1000M Ethernet	
EM022-06	0	0	0	1	0	19
EM022-12	6	0	0	1	0	26
EM022-12V	0	2	0	1	0	26
EM022-12G	0	0	0	0	1	26
EM022-18	12	0	0	1	0	33
EM022-18V	6	2	0	1	0	33
EM022-18X	2	0	2	1	0	33
EM022-18G	6	0	0	0	1	33
EM022-18GV	0	2	0	0	1	33
EM022-24	18	0	0	1	0	40
EM022-24V	12	2	0	1	0	40
EM022-24X	8	0	2	1	0	40
EM022-24G	12	0	0	0	1	40
EM022-24GV	6	2	0	0	1	40
EM022-24GX	2	0	2	0	1	40
EM022-24GG	0	0	0	0	2	40

*Remark:Circuits can be combined in parallel for bigger current,N circuits of 10A to get N*10A,such as 2 circuits of 10A in parallel for 20A use. if you need customize the channel no. of Ethernet,power and

Technical Specification of the slip ring

Ethernet	1~2 channels 100M/1000M baseT	connectors	Rj45	
Mechanical Data		Electrical Data		
spec	data	spec	data	
working life	refer to slip ring grade table		power	signal
Rotating speed	refer to slip ring grade table	voltage range	0~440VAC/VDC	0~440VAC/VDC
working temp.	-30℃~80℃	insulation resistance	≥ 1000MΩ /500VDC	≥ 1000MΩ /500VDC
work humidity	0~85%RH	lead wire spec.	AWG17# Silver-plated teflon	AWG22# Silver-plated teflon
contact material	refer to slip ring grade table			
housing material	aluminum alloy	lead wire length	Standard 200mm (can be customized)	
torque	0.1N.m;+0.03N.m/6 circuits	Dielectric Strength	500VAC@50Hz,60s	
IP grade	MIL-STD-810E	Electrical noise	<0.01Ω	
certificate	RoHS certificate	CE certificate	Yes	

Grade code

Grade code	Max rotating speed	working life	contact material
C:standard	250RPM	20 millions	precious metal
D:industrial	600RPM	80 millions	gold-gold

Color Code of Lead Wire

ring #	1	2	3	4	5	6	7	8	9	10	11	12
color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU
ring#	13	14	15	16	17	18	19	20	21	22	23	24
color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparent

Remark: "1" : the first wire from rotor side , EM022-06 wire color sequence: BLK/BRN/RED/ORG/YEL/GRN , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....