

# ZM099 Series Servo Motor/Encode Slip Ring

Solid, OD 99mm, support 1~8pcs servo motor+1~120circuits power/signal

Specially desinged for servo motor/encoder of SIMEMMS, YASKAWA, Panasonic, Mitsubishi, suitable for all kinds of foreign & domesitc servo mormtor / stepper motor. More than 10years operating experiences in SIMEMMS/HEIDENHAIN control system, high reliability.

## Part No. Description

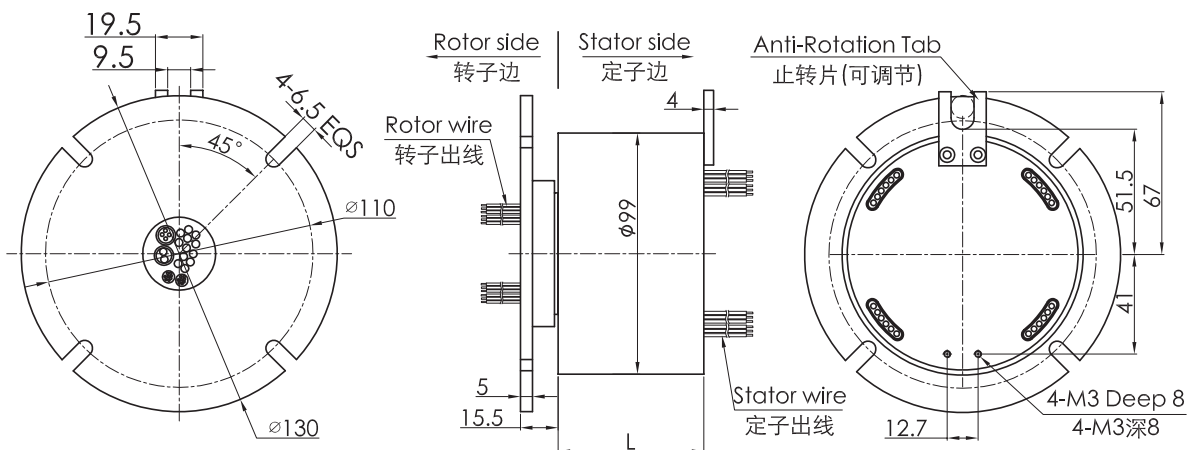
ZM099 Servo motor No.	Power circuits	Signal circuits	Grade code
servo motor encode slip ring solid, OD 99mm			C : Standardf D : Industrial H : high quality
For example: 1pcs servo motor(two cables, 1*4cores@10A cable for power+1* 6 cores sheilded cable for encorder signal)			For example: 06S: 6 circuits signal@5A 12S: 12 circuits signal@5A
02: 2pcs servo motor 03: 3pcs servo motor , and so on			For example: 0610:6circuits@10A 1230:12circuits@30A

## Example

ZM099-01-0610:support 1pcs servo motor+6 circuits@10A,without hole(solid),OD 99mm.

ZM099-04-1210-12S:support 4pcs servo motor+6 circuits@10A cable for power,without hole(solid),OD 119mm.

\* Remark: More details or ask for customized solution, pls contact us,E-mail: info@senring.com senring.us@gmail.com



## Standard Model List

Part no.	Servo motor No.	Power circuits (10A)	Signal circuits (5A)	Length L(mm)	Part no.	Servo motor No.	Power circuits (10A)	Signal circuits (5A)	Length L(mm)
ZM099-01	1	0	0	72	ZM099-04	4	0	0	216
ZM099-01-06S	1	0	6	96	ZM099-04-06S	4	0	6	240
ZM099-01-12S	1	0	12	120	ZM099-04-12S	4	0	12	264
ZM099-01-24S	1	0	24	168	ZM099-04-24S	4	0	24	312
ZM099-01-1210-12S	1	12	12	168	ZM099-04-1210-12S	4	12	12	312
ZM099-01-0610-30S	1	6	30	264	ZM099-04-0610-30S	4	6	30	408
ZM099-01-36S	1	0	36	264	ZM099-04-36S	4	0	36	408
ZM099-01-1210-36S	1	12	36	312	ZM099-04-1210-36S	4	12	36	456
ZM099-01-48S	1	0	48	312	ZM099-04-48S	4	0	48	456
ZM099-01-2410-48S	1	24	48	408	ZM099-04-2410-48S	4	24	48	552
ZM099-01-72S	1	0	72	408	ZM099-04-72S	4	0	72	552
ZM099-01-96S	1	0	96	504	ZM099-04-96S	4	0	96	648
ZM099-01-120S	1	0	120	600	ZM099-04-120S	4	0	120	744

Part no.	Servo motor No.	Power circuits (10A)	Signal circuits (5A)	Length L(mm)	Part no.	Servo motor No.	Power circuits (10A)	Signal circuits (5A)	Length L(mm)
ZM099-02	1	0	0	120	ZM099-08	8	0	0	408
ZM099-02-06S	2	0	6	144	ZM099-08-06S	8	0	6	432
ZM099-02-12S	2	0	12	168	ZM099-08-12S	8	0	12	456
ZM099-02-24S	2	0	24	216	ZM099-08-24S	8	0	24	504
ZM099-02-1210-12S	2	12	12	216	ZM099-08-1210-12S	8	12	12	504
ZM099-02-0610-30S	2	6	30	312	ZM099-08-0610-30S	8	6	30	600
ZM099-02-36S	2	0	36	312	ZM099-08-36S	8	0	36	600
ZM099-021210-36S	2	12	36	360	ZM099-08-1210-36S	8	12	36	648
ZM099-02-48S	2	0	48	360	ZM099-08-48S	8	0	48	648
ZM099-02-2410-48S	2	24	48	456	ZM099-08-2410-48S	8	24	48	744
ZM099-02-72S	2	0	72	456	ZM099-08-72S	8	0	72	744
ZM099-02-96S	2	0	96	552	ZM099-08-96S	8	0	96	840
ZM099-02-120S	2	0	120	648	ZM099-08-120S	8	0	120	936

\*Remark: 1pcs servo motor(two cables,1\*4 cores@10A cable for power+1\*6 cores shielded cable for encode signal).

### Technical Specification

Mechanical		Electrical		
Spec.	Data	Spec.	Data	
Working Life	pls refer to product grade table	Voltage Range	Power	Signal
Rotating Speed	pls refer to product grade table		0~440VAC/VDC	0~440VAC/VDC
Working Temp.	-30°C~80°C	Insulation Resistance	≥ 1000MΩ/500VDC	
Work Humidity	0~85% RH	Lead Wire Spec.	power cable or AWG#17 teflon wire	6 cores shielded cable or AWG#22 teflon wire
Contact Material	refer to slip ring grade table	Lead Wire Length	standard 300mm(can be customized)	
Housing Material	aluminum alloy	Dielectric Strength	500VAC@50Hz, 60s	
Torque	0.1N.m+0.03N.m/6circuits	Electrical Noise	<0.01Ω	
Mechanical Vibration	MIL-STD-810E	Loss Rate	<0.02%	
Material	RoHS certification	CE Certification	YES	

### Product Grade Table

Grade code	Max rotating speed	Working life	Contact material
C:standard	400RPM	20millions revolutions	precious metal
D:industrial	800RPM	60millions revolutions	precious metal
H:high quality	1200RPM	150millions revolutions	gold alloy

### 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 ,ZM099-01 wire color sequence: BLK/BRN/RED/ORG/YEL/GRN/BLU/PUR/GRY/WHT , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....