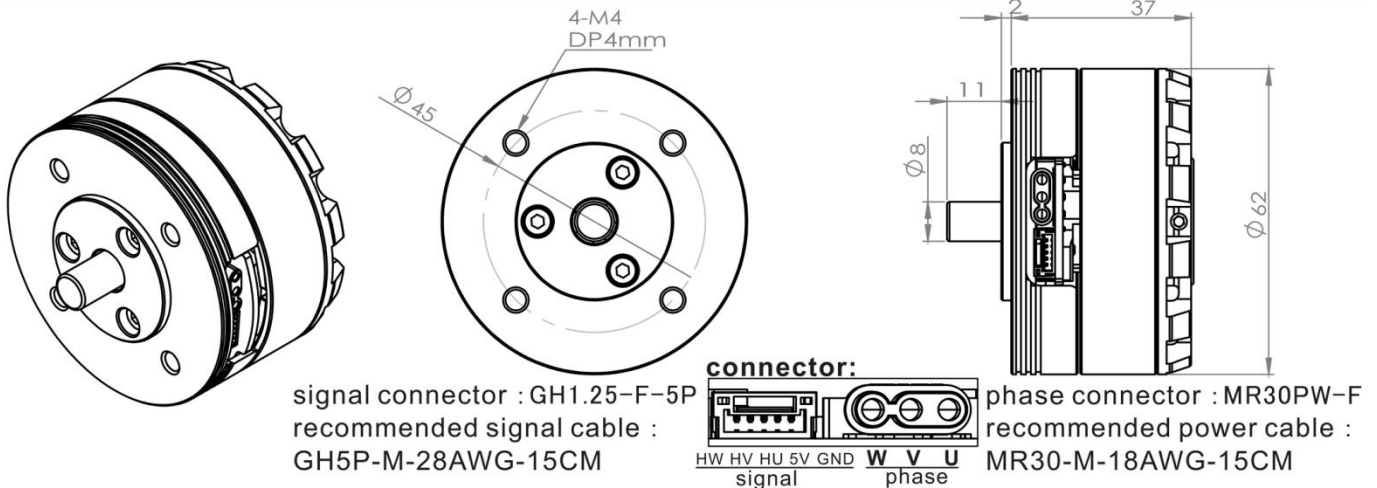


# MX5310KV200HA



## General Characteristics:

### Motor Configuration

Mechanical structure	outrunner	Ingress protection	IP 44
Number of pole pairs	7	Speed constant	KV 200
Number of phases	3	Torque constant	mN/A 44
Winding connection	star	Single phase resist.	mOhm 200
Total weight	gram 300	DQ inductance	uH 1000
Rotor inertia	uNm*s <sup>2</sup> 8.2	Friction	uN*m*s 0.6

### Thermal Data

Thermal resistance housing-ambient	4.9K/W
Thermal resistance winding-housing	3.8K/W
Ambient temperature	-40~100 °C
Max. winding temperature	120 °C

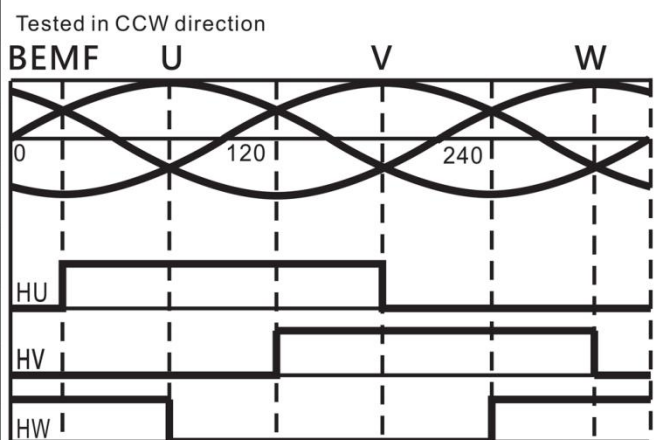
### Sensoric

Sensor type	bipolar self-locking hall
Number of halls	3
Supply voltage	5V
Electrical angle	120 degrees

### Nominal & Stall

Nominal voltage	V	24	48
No load speed	rpm	4800	9600
Noload current	mA	550	700
Nominal speed	rpm	3600	7200
Nominal torque	mNm	500	1000
Nominal current	A	1.2	2.4
Max. power	W	400	1500
Max. efficiency		82%	85%
Stall torque	N	1.2	2.3
Stall current	A	22	45

### Hall sequence regards to back EMF



Pull-up resistance	yes
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**ATTENTION:** Stall operation is not recommended. Please do necessary protection to avoid irreparable damage.