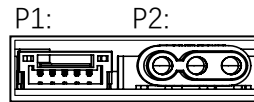


Signal connector (P1):	GH1.25-F-5P
Signal cable :	GH5P-M-28AWG-15cm
Phase connector (P2) :	AMASS MR30PW-F
Phase cable:	MR30-M-20AWG-15cm



Pin definition(left to right):

P1: 1.HW 2.HV 3.HU 4.VCC 5.GND **P2:** 1.W 2.V 3.U

General Characteristics

Motor Configuration	Unit		Unit	
Mechanical structure		outrunner	Ingress protection	IP 54
Number of pole pairs		7	Speed constant	KV 200
Number of phases		3	Torque constant	mNm/A 45
Winding connection		star	Single phase resistance	mOhm 580
Total weight	g	130	DQ inductance	uH 120
Rotor inertia	uNm*s ²	1.8	Friction	uN*m*s 0.5

Thermal Data

Thermal resistance housing -ambient	4.8K/W
Thermal resistance winding-housing	7.1K/W
Ambient temperature	-20 °C - 70 °C
Maximal winding temperature	120 °C

Sensoric

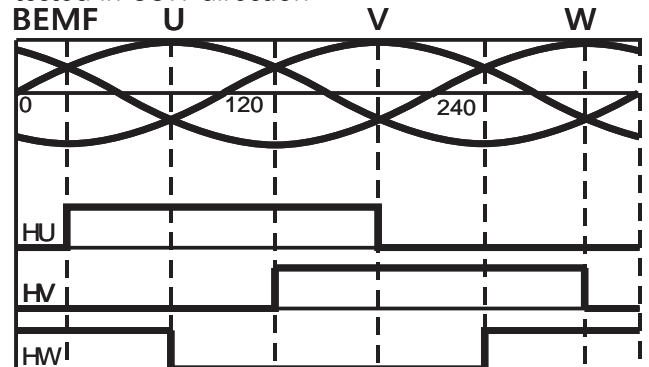
Sensor type	bipolar self-locking hall
Number of halls	3
Supply voltage	5V
Electrical angle	120 degrees

Nominal & Stall

	Unit		
Nominal voltage	V	12	24
No load speed	rpm	2400	4800
No load current	mA	180	270
Nominal speed	rpm	1500	3400
Nominal torque	mNm	100	180
Nominal current	A	2.2	3.7
Maximal power	W	18	70
Maximal efficiency		80%	85%
Stall torque	mNm	300	400
Stall current	A	6.5	9

Hall sequence regards to back EMF

tested in CCW direction



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

*In case specific shaft, connector, or any other features need to be customized, please visit www.damoto.tech and contact us.