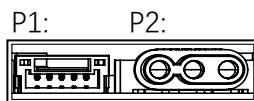


Signal connector (P1):	GH1.25-F-5P
Signal cable :	GH5P-M-28AWG-15cm
Phase connector (P2) :	AMASS MR30PW-F
Phase cable:	MR30-M-20AWG-15cm



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 125
Number of phases		3	Torque constant mNm/A 68
Winding connection		star	Single phase resistance Ohm 1.75
Total weight	g	130	DQ inductance uH 450
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

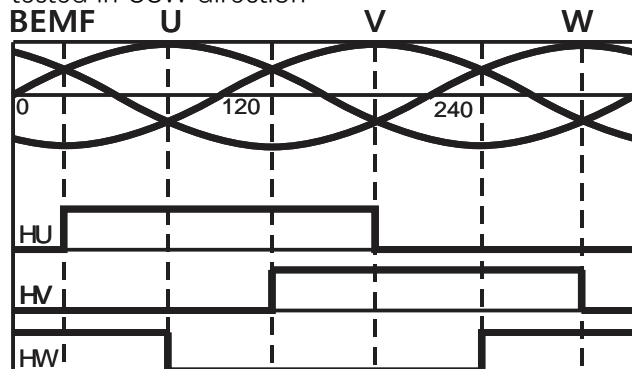
Sensor type	bipolar self-locking hall
Number of halls	3
Supply voltage	5V
Electrical angle	120 degrees

Nominal & Stall

	Unit		
Nominal voltage	V	12	24
No load speed	rpm	1500	3000
No load current	mA	90	150
Nominal speed	rpm	1100	2100
Nominal torque	mNm	54	117
Nominal current	A	0.8	1.6
Maximal power	W	8	30
Maximal efficiency		80%	82%
Stall torque	mNm	300	320
Stall current	A	3.5	4.5

Hall sequence regards to back EMF

tested in CCW direction



Pull-up resistance yes

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.