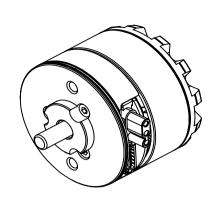
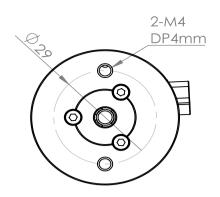
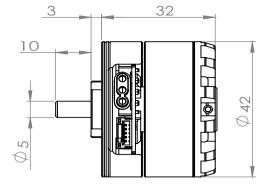
Unit: mm









Signal connector (P1):	GH1.25-F-5P
Signal cable:	GH5P-M-28AWG-15cm
Phase connector (P2):	AMASS MR30PW-F
Phase cable:	MR30-M-22AWG-15cm

P2:

P1:

Pin definition(left to right):

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

General Characteris

Motor Configuration	Unit	
Mechanical structure		outrunner
Number of pole pairs		7
Number of phases		3
Winding connection		star
Total weight	g	130
Rotor inertia	uNm*s ²	1.8

	Unit	
Ingress protection		IP 54
Speed constant	KV	200
Torque constant	mNm/A	45
Single phase resistance	mOhm	580
DQ inductance	uН	120
Friction	uN*m*s	0.5

Thermal Data

Stall current

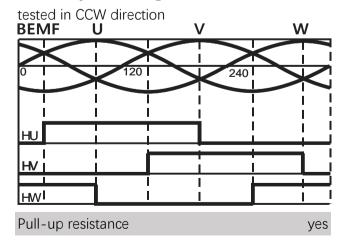
Thermal resistance houing -ambient	4.8K/W
Thermal resistance winding-housing	7.1K/W
Ambient temperature	-20 °C - 60 °C
Maximal winding temperature	120 °C

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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	48
No load speed	rpm	2400	4800	9600
No load current	mA	150	270	320
Nominal speed	rpm	1500	3400	7800
Nominal torque	mNm	100	180	350
Nominal current	А	2.2	3.7	5.4
Maximal power	W	20	70	260
Maximal efficiency		80%	86%	86%
Stall torque	mNm	300	500	840

Hall sequence regards to back EMF



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.

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