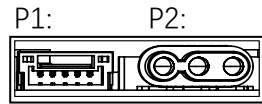


Signal connector (P1):	GH1.25-F-5P
Signal cable :	GH5P-M-28AWG-15cm
Phase connector (P2) :	AMASS MR30PW-F
Phase cable:	MR30-M-20AWG-15cm



Unit : mm

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 65
Winding connection		star	Single phase resistance	mOhm 320
Total weight	g	220	DQ inductance	uH 110
Rotor inertia	uNm*s ²	6.5	Friction	uN*m*s 0.5

Thermal Data

Thermal resistance housing -ambient	4.2K/W
Thermal resistance winding-housing	6.5K/W
Ambient temperature	-20 °C - 60 °C
Maximal winding temperature	120 °C

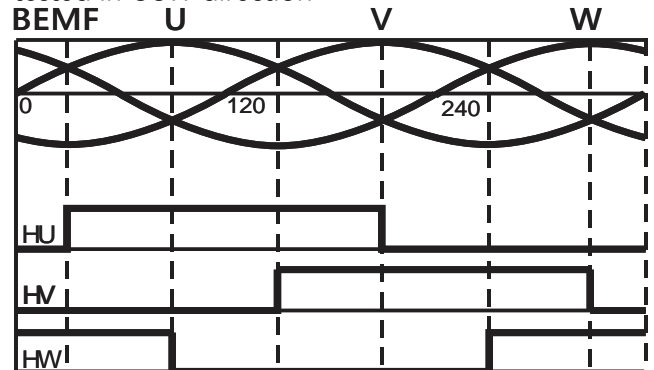
Sensoric

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

Nominal & Stall	Unit	
Nominal voltage	V	24
No load speed	rpm	4860
No load current	mA	340
Nominal speed	rpm	3500
Nominal torque	mNm	370
Nominal current	A	6.8
Maximal power	W	160
Maximal efficiency		85%
Stall torque	mNm	700
Stall current	A	13

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.