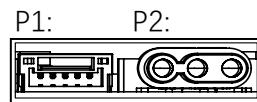


* Connectors will be replaced with cables.

Signal connector:	GH1.25-F-5P
Signal cable :	GH5P-M-28AWG-15cm
Phase connector :	MR30PW-F
Phase cable:	MR30-M-18AWG-15cm



Unit : mm

Pin definition(left to right):

P1: 1.HW 2.HV 3.HU 4.5V 5.GND **P2:** 1.W 2.V 3.U

General Characteristics

Motor Configuration	Unit	
Mechanical structure		outrunner
Number of pole pairs		7
Number of phases		3
Winding connection		star
Total weight	g	420
Rotor inertia	$\text{uNm}\cdot\text{s}^2$	

	Unit	
Ingress protection		IP 54
Speed constant	KV	75
Torque constant	mNm/A	115
Single phase resistance	mOhm	
DQ inductance	mH	
Friction	$\text{uN}\cdot\text{m}\cdot\text{s}$	

Thermal Data

Thermal resistance housing -ambient	3.8K/W
Thermal resistance winding-housing	5.2K/W
Ambient temperature	-20 °C - 60 °C
Maximal winding temperature	120 °C

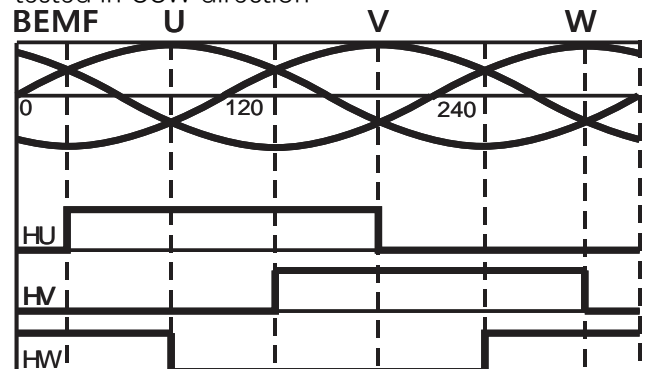
Sensoric

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

Nominal & Stall	Unit		*
Nominal voltage	V	24	24
No load speed	rpm	1800	1500
No load current	mA	450	430
Nominal speed	rpm	1500	1200
Nominal torque	mNm	800	900
Nominal current	A	7	6.5
Maximal power	W	200	170
Maximal efficiency		82%	80%
Stall torque	Nm	3.6	4
Stall current	A	38	42

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.