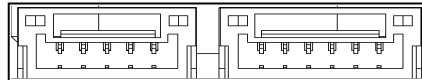


Signal Connector (P1):	GH1.25-F-5P
Signal Cable :	GH5P-M-28AWG-15cm
Phase connector (P2)	GH1.25-F-6P
Cable :	GH6P-M-28AWG-15cm

P1 (5 PIN): P2 (5 PIN):



Pin definition(left to right):

P1: 1.HW 2.HV 3.HU 4.VCC 5.GND P2: 1.W 2.W 3.V 4.V 5.U 6.U

General Characteristics

Motor Configuration	Unit		Unit
Mechanical structure		outrunner	Ingress protection IP 54
Number of pole pairs		7	Speed constant KV 150
Number of phases		3	Torque constant mNm/A 52
Winding connection		star	Single phase resistance Ohm 2
Total weight	g	90	DQ inductance uH 400
Rotor inertia	uNm*s ²	1.2	Friction uN*m*s 0.5

Thermal Data

Thermal resistance housing -ambient	5.4K/W
Thermal resistance winding-housing	7.9K/W
Ambient temperature	-20 °C - 70 °C
Maximal winding temperature	120 °C

Sensoric

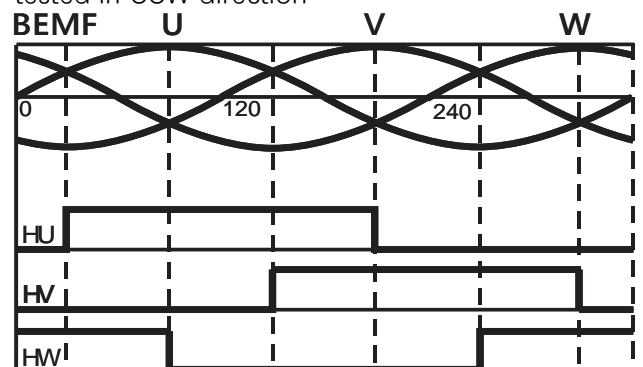
Sensor type	bipolar self-locking hall
Number of halls	3
Supply voltage	5V
Electrical angle	120 degrees

Nominal & Stall

	Unit		
Nominal voltage	V	12	24
No load speed	rpm	1800	3600
No load current	mA	110	120
Nominal speed	rpm	1150	2400
Nominal torque	mNm	47	77
Nominal current	A	0.9	1.4
Maximal power	W	6.2	22
Maximal efficiency		63%	70%
Stall torque	mNm	120	180
Stall current	A	2.2	3.5

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.