

GH1.25-F-8P

1.HW 2.HV 3.HU 4.GND 5.VCC 6.W 7.V 8.U Cable: GH8P-M-28AWG-15cm

General Characteris	cs:	
Motor Configura	<b>tion</b> Unit	
Mechanical structure		outrunner
Number of pole pairs	3	7
Number of phases		3
Winding connection		star
Total weight	g	52
Rotor inertia	uNm*s <sup>2</sup>	0.75

	Unit	
Ingress protection		IP 54
Speed constant	KV	360
Torque constant	mNm/A	23
Single phase resistance	mOhm	750
DQ inductance	uН	100
Friction	uN*m*s	0.5

## **Thermal Data**

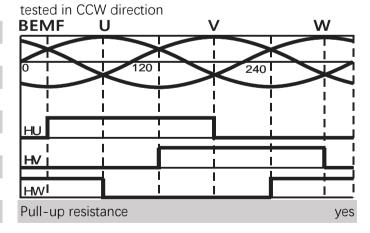
Thermal resistance houing -ambient	6.1K/W
Thermal resistance winding-housing	9.4K/W
Ambient temperature	-20 °C - 70 °C
Maximal winding temperature	120 °C

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

Maximal Williams temperature		120 0	
Nominal & Stall	Unit		
Nominal voltage	V	12	24
No load speed	rpm	4300	8600
No load current	mA	150	260
Nominal speed	rpm	3300	7200
Nominal torque	mNm	33	45
Nominal current	А	1.3	1.7
Maximal power	W	15	45
Maximal efficiency		83%	84%
Stall torque	mNm	105	210
Stall current	А	4.5	8

## Hall sequence regards to back EMF



ATTENTION: Stall operation is not recommended, please do necessary protection to avoid irreparable damage.

<sup>\*</sup>In case specific shaft, connector, or any other features need to be customized, please visit www.damoto.tech\_and contact us.