



General Characterisitos .		
Motor Configuration	Unit	
Mechanical structure		outrunner
Number of pole pairs		7
Number of phases		3
Winding connection		star
Total weight	g	300
Rotor inertia	uNm*s²	8.2

	Unit	
Ingress protection		IP 54
Speed constant	KV	200
Torque constant	mNm/A	44
Single phase resistance	mOhm	200
DQ inductance	mΗ	1
Friction	uN*m*s	0.6

inermai Data	
Thermal resistance houing -ambient	3.8K/W
Thermal resistance winding-housing	5.2K/W
Ambient temperature	-10 °C - 60 °C
Maximal winding temperature	120 °C

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

Hall sequence regards to back EMF

Sensoric

Nominal & Stall	Unit	
Nominal voltage	V	24
No load speed	rpm	4800
No load current	mA	550
Nominal speed	rpm	4000
Nominal torque	mNm	280
Nominal current	Α	6
Maximal power	W	280
Maximal efficiency		83%
Stall torque	Nm	1.2
Stall current	А	28

tested in C BEMF	CW direction	V	W
	120	240	
		240	
HU	1 1	− i	
I HV I			
HWI		l I	
Pull-up res	sistance		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.