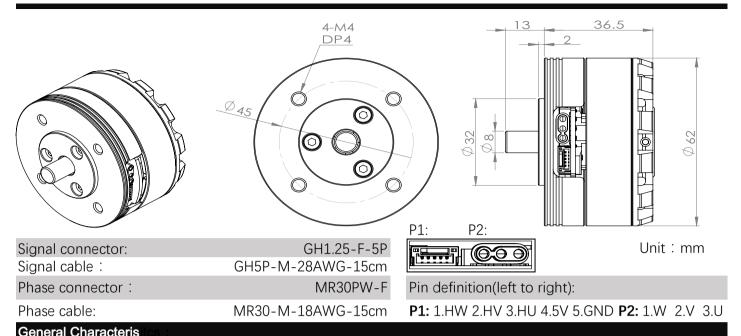


Thermal Data



Scholar Sharastons		
Motor Configuration	Unit	
Mechanical structure		outrunner
Number of pole pairs		7
Number of phases		3
Winding connection		star
Total weight	g	300
Rotor inertia u	Nm*s ²	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

meman Bata	
Thermal resistance houing -ambient	3.8K/W
Thermal resistance winding-housing	5.2K/W
Ambient temperature	-20 °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	48
No load speed	rpm	4800	9600
No load current	mA	550	700
Nominal speed	rpm	3600	7200
Nominal torque	mNm	500	1000
Nominal current	А	1.2	2.4
Maximal power	W	400	1500
Maximal efficiency		82%	85%
Stall torque	Nm	1.2	2.3
Stall current	Α	22	45

tested in (CCW direction U	V	W
	120	240	
		1	
HU	1 1		
HV I			
HWI	<u> </u>	I I	
Pull-up re	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.