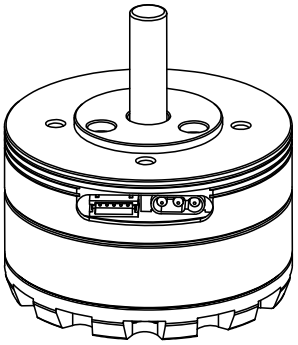
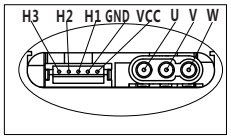
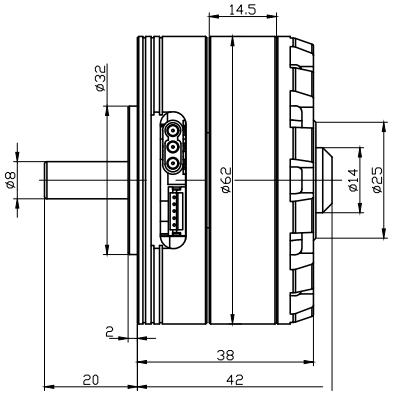
DAMOTO
MOTION MATTERS

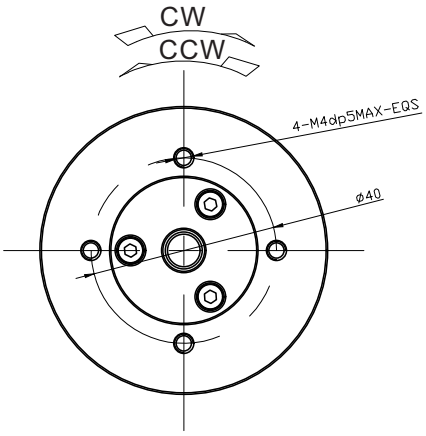
MR530K100H



CONNECTION TO DESCRIBE







General Characteristics:

Motor Configuration

Mechanical Structure		outrunner			
Number of pole pairs		7	Speed constant	Vms/krpm	7.6
Number of phases		3	Torque constant	mN/A	100
Winding connection		star	Phase resistance	mOhm	360
Total weight	gram	300	DQ inductance	mH	0.2
Rotor inertia	uNm*s^2	8.2	Friction	uN*m*s	5.41

Thermal Data

Thermal resistance housing-ambient	6.42K/W
Thermal resistance winding-housing	3.84K/W
Ambient temperature	-40~100 ℃
Max. winding temperature	120 ℃

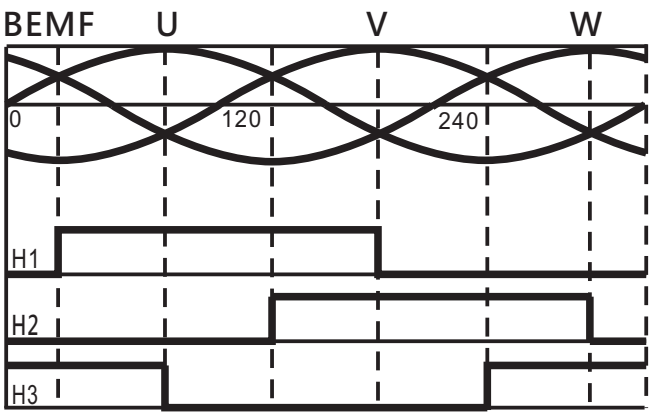
Sensoric

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

Nominal & Stall

Nominal voltage	V	24
No load speed	rpm	2500
Noload current	mA	230
Nominal speed	rpm	2000
Nominal torque	mNm	280
Nominal current	A	3
Nominal power	W	60
Efficiency(Max./Nominal)	85% / 83%	
Stall torque	N	1.4
Stall current	A	14

Hall sequence regards to back EMF:



This is tested in CCW direction

Pull-up resistance	N/A