

Wire Length: 150mm±10mm

General Characteristics:

Motor Configuration

Mechanical Structure

outrunner

Number of pole pairs	7	Speed constant	Vms/krpm	2.8
Number of phases	3	Torque constant	mN/A	23
Winding connection	star	Phase resistance	mOhm	750
Total weight	gram	DQ inductance	uH	100
Rotor inertia	uNm*s ²	Friction	uN*m*s	0.5

Thermal Data

Thermal resistance housing-ambient	5.4K/W
Thermal resistance winding-housing	9.6K/W
Ambient temperature	-40~100 °C
Max. winding temperature	120 °C

Sensoric

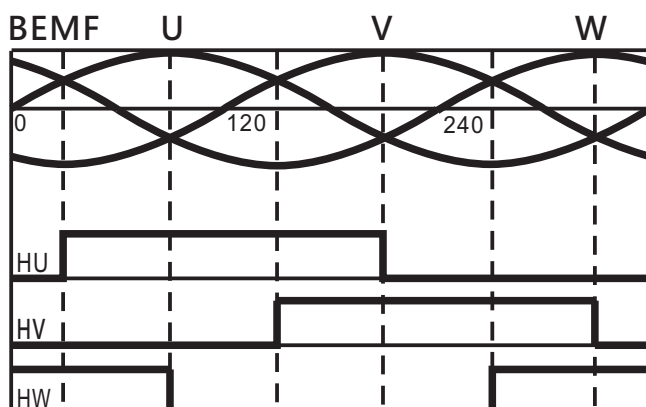
Sensor type	bipolar self-locking hall
Number of halls	3
Supply voltage	5V
Electrical angle	120 degrees

Nominal & Stall

Nominal voltage	V	12
No load speed	rpm	4300
Noload current	mA	300
Nominal speed	rpm	3600
Nominal torque	mNm	22
Nominal current	A	0.9
Nominal power	W	8.5
Efficiency(Max./Nominal)	85% / 80%	
Stall torque	mNm	103
Stall current	A	4.5

Hall sequence regards to back EMF:

Tested in CCW direction



Wire Color Configuration:

HW	HV	HU	GND	5V	W	V	U
Blue	Green	Yellow	Black	Red	Blue	Green	Yellow

Pull-up resistance 10k Ohm