







GND

6,7,8

9,10,11 12,13,14

10k Ohm

General Characteristics:

Stall torque

Stall current

Motor Configuration					
Mechanical Structure	outrunner				
Number of pole pairs	7		Speed constant	Vms/krpm	4.1
Number of phases	3		Torque constant	mN/A	45
Winding connection	star		Phase resistance	mOhm	630
Total weight	gram	130	DQ inductance	uH	140
Rotor inertia	uNm*s²	2.7	Friction	uN*m*s	0.5
Thermal Data			Sensoric		
Thermal resistance housing-ambient	4.8K/W		Sensor type bipolar self-locking hall		
Thermal resistance winding-housing	7.1K/W		Number of halls 3		
Ambient temperature	-40~100 °C		Supply voltage		5V
Max. winding temperature	120 ° C		Electrical angle		120 degrees
Nominal & Stall			Hall sequence reaction	egards to bacl	KEMF:
Nominal voltage	V	24	BEMF U	V	W
No load speed	rpm	4800			
Noload current	mA	250	0 120	240	
Nominal speed	rpm	3500	<u> </u>	<u> </u>	
Nominal torque	mNm	160	HU		<u> </u>
Nominal current	А	3.4	HV		
Nominal power	W	58.6	HW I	 	
Efficiency(Max./Nominal)	85%	/ 72%	Wire configuration (Left -Right):		

 $\,mNm\,$

Α

400

9

Pull-up resistance