

# 57 SERIES BLDC Motor(High Torque)



## GENERAL SPECIFICATION

Winding type: Star
Hall effect angle: 120 degree electrical angle
Shaft run out: 0.025mm
Insulation Class: Class B
Dielectric strength:500VDC for one minute
Ambient temperature: -20—+40 °C

## WIRE DIAGRAM

Lead No.	Lead Color	Lead Gauge	Function
1	RED	18AWG UL1569	Phase U
2	YEL		Phase V
3	BLA		Phase W
4	RED	26AWG UL1569	+5V
5	BLU		Hall A
5	GRE		Hall B
7	WHI		Hall C
8	BLA		GND

## ELECTRICAL SPECIFICATION

Model		57DMH55-3640	57DMH75-3640	57DMH95-3640	57DMH115-3640
Voltage	V	36			
Number of poles		4			
Rated power	W	60	75	180	200
No load speed	rpm	5200	5200	5200	5200
Rated torque	Nm	0.14	0.28	0.43	0.56
Rated Speed	rpm	4000	4000	4000	4000
Rated Current	A	2.2	4.5	6.8	9
Torque(max)	Nm	0.4	0.6	0.9	1.7
Back-EMF constant	V/Krpm	4.5	4.8	4.83	4.9
Torque Constant	Nm/A	0.072	0.078	0.08	0.09
Resistance	ohm	2	0.9	0.7	0.5
Weight	Kg	0.5	0.8	1.1	1.5
Length	mm	55	75	95	115

## DIMENSIONS

