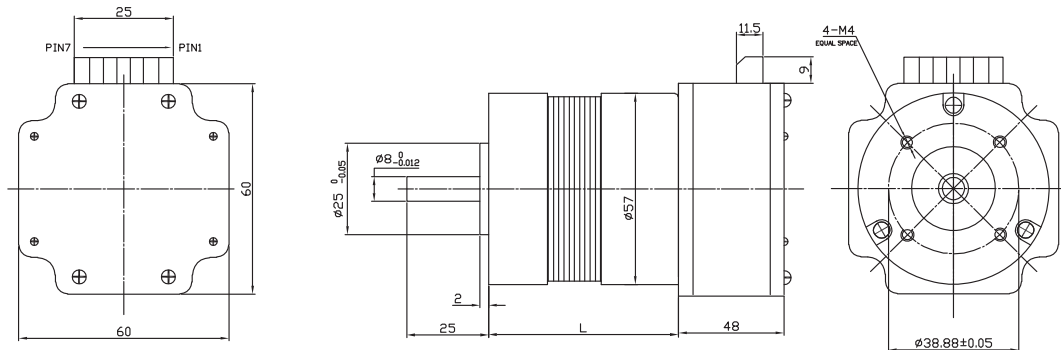


57BL-IE Brushless Motor



Characteristics

HALL EFFECT ANGLE
120° electric angle

SHAFT RUN OUT
0,025 mm

INSULATION CLASS
B

RADIAL PLAY
0,02 mm 450g load

AXIAL PLAY
0,08 mm 450g load

MAX RADIAL FORCE
25N 10mm from flange

MAX AXIAL FORCE
15N

DIELECTRIC STRENGTH
500 VDC for one minute

INSULATION RESISTANCE
100 M ohm min. 500 VDC

Specification

Model	57BL54-IE	57BL74-IE	57BL94-IE	57bl116-IE
1 N° OF POLE	4	4	4	4
2 N° OF PHASE	3	3	3	3
3 RATED VOLTAGE V	36	36	36	36
4 RATED SPEED RPM	4000	4000	4000	4000
5 RATED TORQUE NM	0,11	0,22	0,32	0,4
6 MAX PEAK TORQUE NM	0,33	0,6	0,9	1
7 TORQUE CONSTANT NM/A	0,063	0,063	0,063	0,063
8 LINE TO LINE RESISTANCE Ω	1,5	0,6	0,45	0,38
9 LINE TO LINE INDUCTANCE MH	4,5	2,1	1,65	1
10 MAX PEAK CURRENT A	3,55	9,5	14	15
11 LENGTH MM	102	122	142	164
12 ROTOR INERTIA G-CM ²	75	119	173	230
13 WEIGHT KG	00,7	0,95	1,2	1,5

Connection

Pin N°		Function
1	+5V	+5V voltage output
2	F/R	Rotation direction
3	SV	Reference speed Voltage 0/+5V
4	PG	Speed pulse output TTL 12 pulse/rev.
5	GND	common ground system
6	GND	DC power input GND
7	+Vp	DC power input +24Vdc