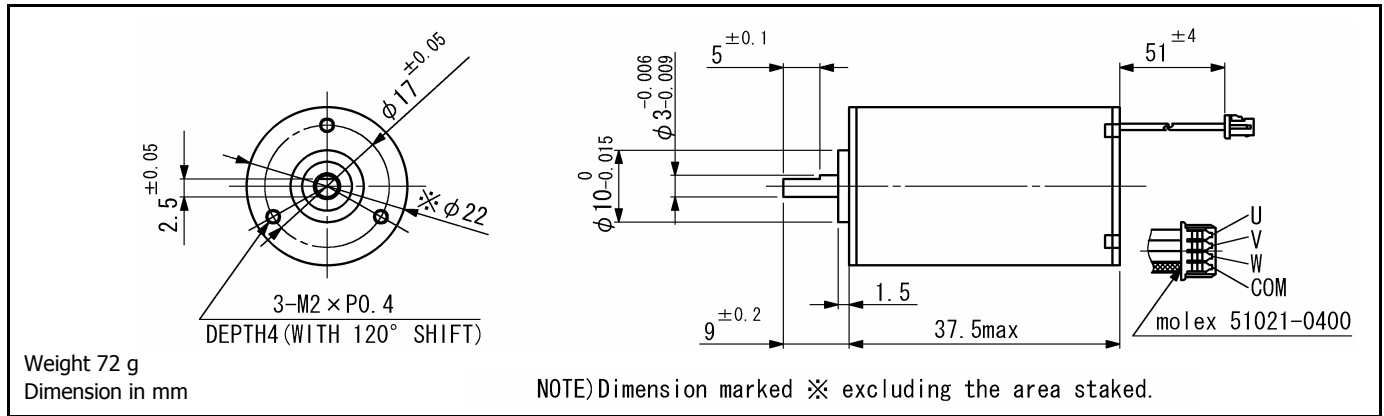


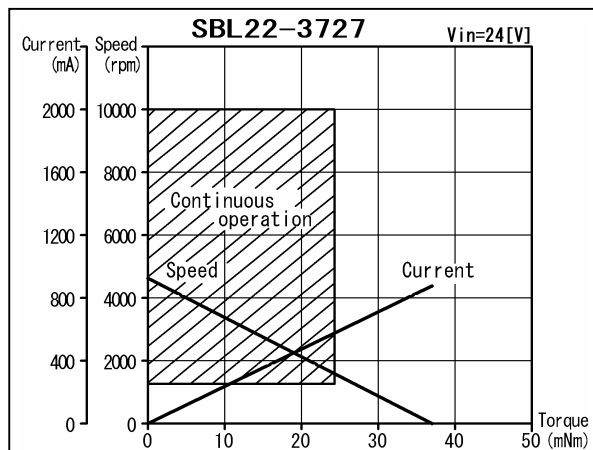
SBL22-37

Electronically commutated sensorless motor, slotless stator design



Sensorless drive circuit SSD22

Ordering number	SBL22	-3727
1 Nominal voltage		24 V
2 Terminal resistance		27 Ω
3 Output power		4.4 W
4 Efficiency		51 %
5 No-load speed		4685 rpm
6 No-load current		73 mA
7 Stall torque		36 mNm
8 Friction torque		3.2 mNm
9 Back-EMF constant		4.7 mV/rpm
10 Torque constant		44.1 mNm/A
11 Slope of N-T curve		130 rpm/mNm
12 Coil inductance		2.4 mH
13 Mechanical time constant (starting oscillating time neglected)		4.6 ms
14 Rotor inertia		3.31 gcm ²
Continuous operation		
15 Speed range		1300...10000 rpm
16 Max. torque		24.3 mNm



General specifications

17 Operating temperature	-20...+80	°C
18 Max. coil temperature	+90	°C
19 Thermal resistances	R _{th1} = 0.6, R _{th2} = 4.3	K/W
20 Bearings type	Preloaded ball bearings	
21 Max. shaft radial load	16 (9 mm)	N
22 Max. shaft axial load	4	N
23 Max. axial load at standstill	250	N
24 Shaft radial play	0.032	mm
25 Shaft axial play	0	mm

Options:

Lead wires length, shaft length, special coils.

V01

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Specifications subject to change without notice