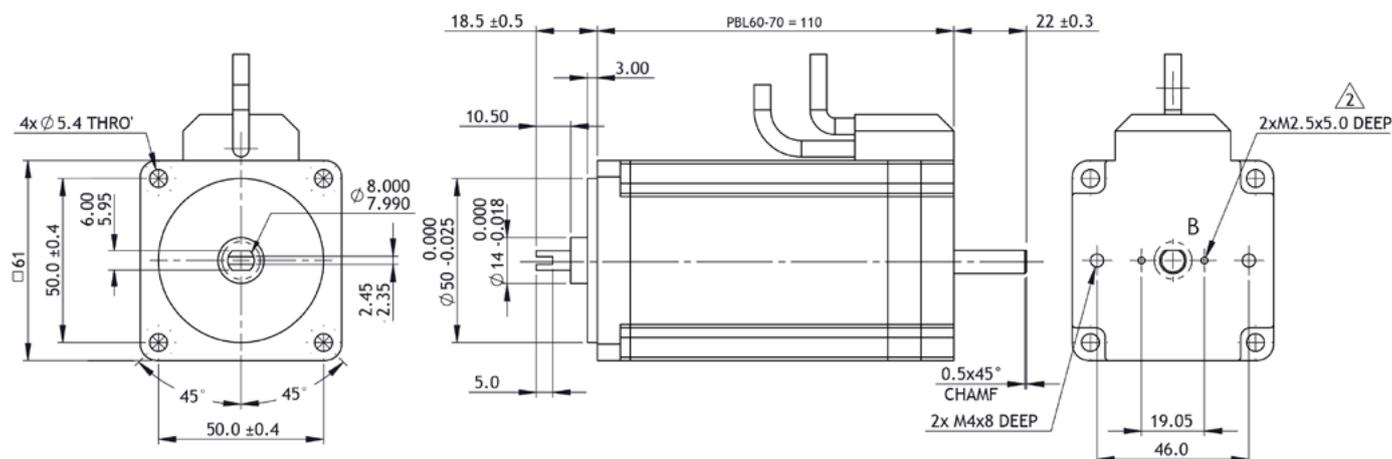


PBL60-70 BLDC motor

Ø60 mm frame // 70 mm stack

parvalux

by **maxon**



all dimensions in mm

Part number key

Modular	#####
Standard	#####
Calculated data	#####

Technical data

Connection details

1 Part number		776620	776621	Lead colour	Lead gauge	Function
2 Nominal power	W	157	157	Red	UL1007/26 AWG	VCC
3 Nominal voltage	V	24	48	Black	UL1007/26 AWG	GND
4 No load speed	rpm	3983	3811	Blue	UL1007/26 AWG	Hall A
5 No load current	A	1.7	0.7	Green	UL1007/26 AWG	Hall B
6 Nominal speed	rpm	3000	3000	White	UL1007/26 AWG	Hall C
7 Nominal continuous torque (S1)	Nm	0.5	0.5	Red	UL1007/18 AWG	Phase U
8 Nominal continuous current (S1)	A	9.9	4.6	Yellow	UL1007/18 AWG	Phase V
9 Max Intermittent torque (S2 - 15 minutes)	Nm	0.88	0.88	Black	UL1007/18 AWG	Phase W
10 Stall current	A	63.44	36.90			
11 Stall torque	Nm	3.7	4.5			
12 Stack length	mm	70	70			
13 Maximum efficiency	%	0.77	0.83			
14 Ra	Ω	0.12	0.48			
15 RI	mH	124.1	555.3			
16 Speed constant	rpm/V	167.30	80.34			
17 Torque constant	Nm/A	0.06	0.12			
18 Speed torque gradient	rpm/Nm	1121.90	870.34			
19 Rotor inertia	Kgcm²	7.28 x 10 ⁻⁵	7.28 x 10 ⁻⁵			
20 Weight	Kg	1.60	1.60			

Thermal data

21 Ambient temperature	°C	40
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Modular system

Gearbox	+L mm	Brake	+L mm	Controller
N/A	-	1.5 Nm	28.2	SC 50/15
		Encoder	+L mm	
		Incremental	9	

Mechanical data

22 Radial load [distance from flange]	N [mm]	350 [15]
23 Radial play	mm [g]	0.025 [450]
24 Axial end play	mm [g]	0.025 [450]

Other data

25 Number of poles		8
26 Winding type		Delta
27 Hall effect angle (electrical angle)	°	120
28 IP Rating		IP54
29 Enclosure		Enclosed
30 Insulation Class		B

Compatible products key

Product name	Standard combination
Product name	Modular combination

+L mm = approximate added length*

*additional length may also be required for mounting flange between components