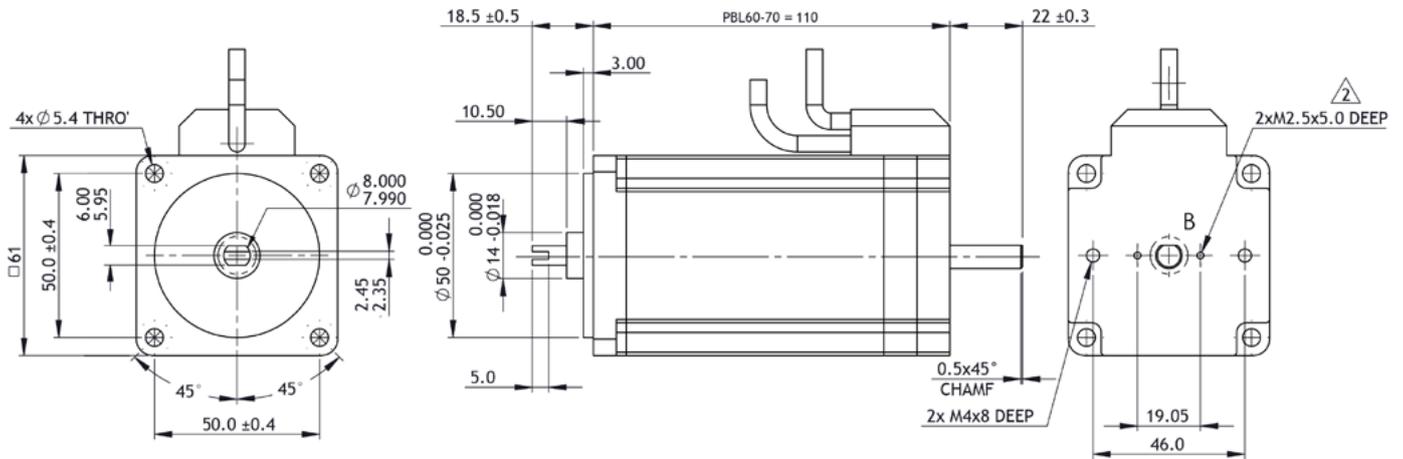


PBL60-70 BLDC motor

Ø60 mm frame // 70 mm stack

parvalux
by **maxon**



all dimensions in mm

Part number key

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

Technical data

		776620	776621
1 Part number		776620	776621
2 Nominal power	W	157	157
3 Nominal voltage	V	24	48
4 No load speed	rpm	3983	3811
5 No load current	A	1.7	0.7
6 Nominal speed	rpm	3000	3000
7 Nominal continuous torque (S1)	Nm	0.5	0.5
8 Nominal continuous current (S1)	A	9.9	4.6
9 Max Intermittent torque (S2 - 15 minutes)	Nm	0.88	0.88
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 ⁻⁶	7.28 x 10 ⁻⁶
20 Weight	Kg	1.60	1.60

Connection details

Lead colour	Lead gauge	Function
Red	UL1007/26 AWG	VCC
Black	UL1007/26 AWG	GND
Blue	UL1007/26 AWG	Hall A
Green	UL1007/26 AWG	Hall B
White	UL1007/26 AWG	Hall C
Red	UL1007/18 AWG	Phase U
Yellow	UL1007/18 AWG	Phase V
Black	UL1007/18 AWG	Phase W

Thermal data

21 Ambient temperature	°C	40
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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

Modular system

Gearbox	+L mm	Brake	+L mm	Controller
GB12	110.0	1.5 Nm	28.2	SC 50/15
GB28	88.0			
GB56	103.0			
PGx52	50.0 - 85.0			
		Encoder	+L mm	Key
		Incr. 5-pin	9.0	Standard combination
		Incr. 10-pin	9.0	Modular combination
		Diff. 10-pin	12.0	

+L mm = approximate added length

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