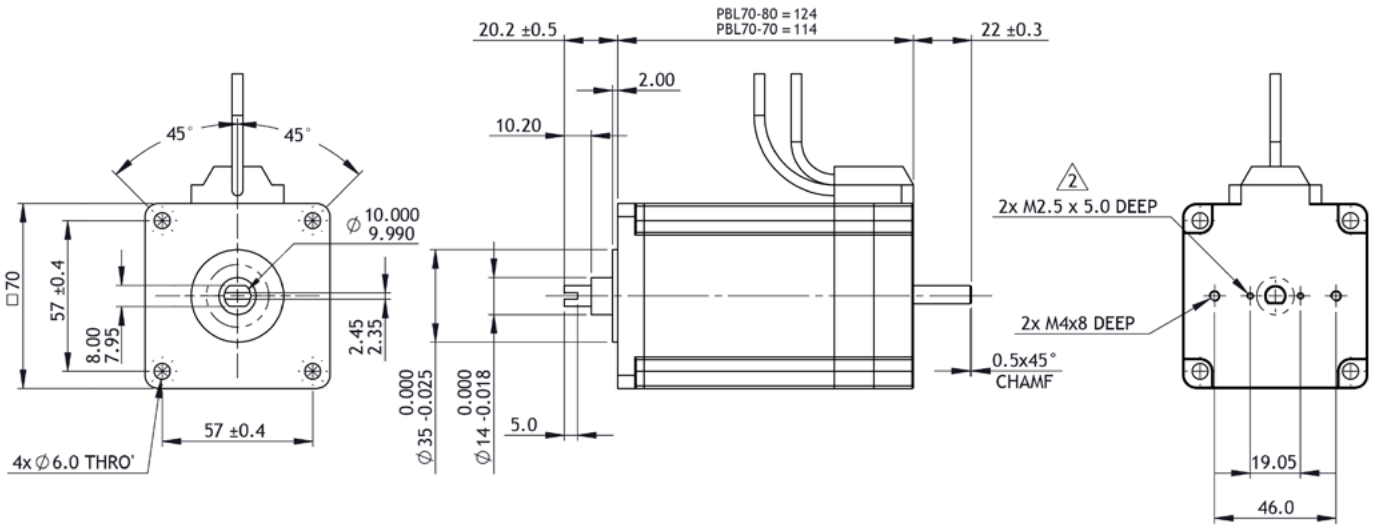
PBL70-70 BLDC motor

Ø70 mm frame // 70 mm stack

parvalux by maxon



all dimensions in mm

Part number key	
Modular	######
Standard	######
Calculated data	######

	Technical data		
1	Part number		776622
2	Nominal power	W	363
3	Nominal voltage	V	48
4	No load speed	rpm	4857
5	No load current	A	1.4
6	Nominal speed	rpm	4500
7	Nominal continuous torque (S1)	Nm	0.77
8	Nominal continuous current (S1)	A	8.9
9	Max Intermittent torque (S2 - 15 minutes)	Nm	1.35
10	Stall current	A	68.2
11	Stall torque	Nm	6.9
12	Stack length	mm	70
13	Maximum efficiency	%	84
14	Ra	Ω	0.151
15	Rl	mH	0.283
16	Speed constant	rpm/V	102.2
17	Torque constant	Nm/A	0.103
18	Speed torque gradient	rpm/Nm	731.0
19	Rotor inertia	Kgcm²	2.39 x 10^{-4}
20	Weight	Kg	2.20

	Thermal data		
21	Ambient temperature	°C	40

	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

Connection details

Lead colour	Lead gauge	Function
Red	UL1569/26 AWG	VCC
Black	UL1569/26 AWG	GND
Blue	UL1569/26 AWG	Hall A
Green	UL1569/26 AWG	Hall B
White	UL1569/26 AWG	Hall C
Red	UL3266/16 AWG	Phase U
Yellow	UL3266/16 AWG	Phase V
Black	UL3266/16 AWG	Phase W

Modular system

Gearbox	+L mm
GB12	110

Brake	+L mm
1.5 Nm	28.2

Encoder	+L mm
Incremental	9

Controller
SC 50/15

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

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additional information available on request