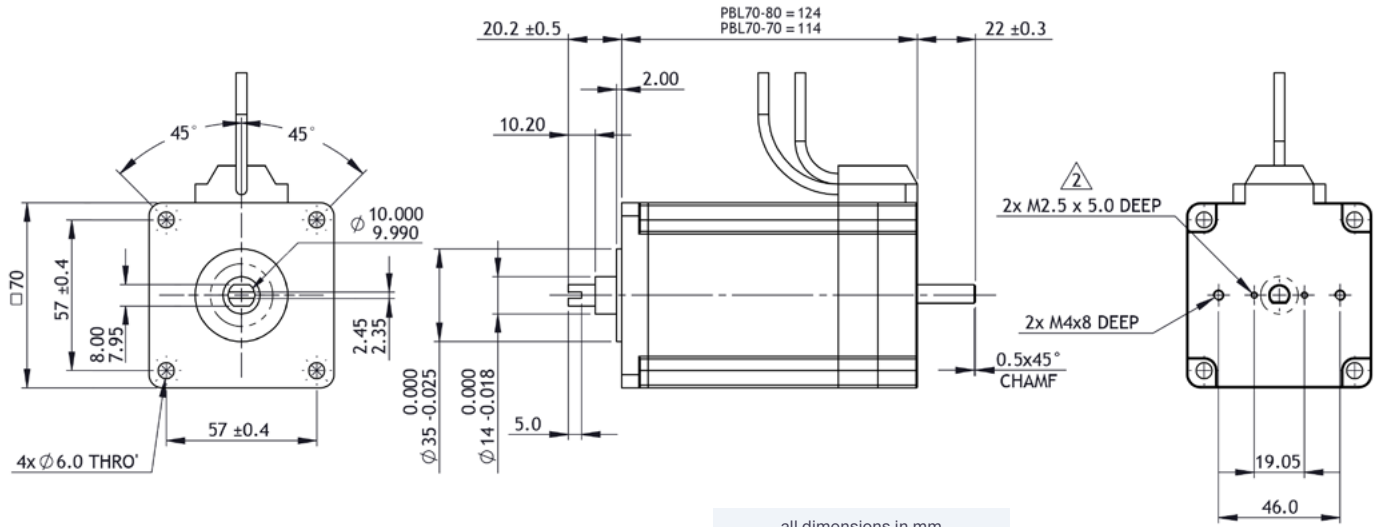


PBL70-70 BLDC motor

Ø70 mm frame // 70 mm stack

parvalux
by **maxon**



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

Technical data			Connection details		
1 Part number		776622	Lead colour	Lead gauge	Function
2 Nominal power	W	363	Red	UL1569/26 AWG	VCC
3 Nominal voltage	V	48	Black	UL1569/26 AWG	GND
4 No load speed	rpm	4857	Blue	UL1569/26 AWG	Hall A
5 No load current	A	1.4	Green	UL1569/26 AWG	Hall B
6 Nominal speed	rpm	4500	White	UL1569/26 AWG	Hall C
7 Nominal continuous torque (S1)	Nm	0.77	Red	UL3266/16 AWG	Phase U
8 Nominal continuous current (S1)	A	8.9	Yellow	UL3266/16 AWG	Phase V
9 Max Intermittent torque (S2 - 15 minutes)	Nm	1.35	Black	UL3266/16 AWG	Phase W
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 RI	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			Modular system					
21 Ambient temperature	°C	40	Gearbox	+L mm	Brake	+L mm	Encoder	+L mm
Mechanical data			L Box	108.0	1.5 Nm	28.2	Incr. 5-pin	9.0
22 Radial load [distance from flange]	N [mm]	350 [15]	LWS	127.0	2.0 Nm	32.4	Incr. 10-pin	9.0
23 Radial play	mm [g]	0.025 [450]	LIW	102.0	4.0 Nm	27.7	Diff. 10-pin	12.0
24 Axial end play	mm [g]	0.025 [450]	LIS	108.0	Power-on	26.4	Magnetic	12.0
Other data			GB12	110.0				
25 Number of poles		8	GB80	80.0	Controller		Key	
26 Winding type		Delta	PGx70	58.0 - 80.0	SC 50/15		Standard combination	
27 Hall effect angle (electrical angle)	°	120			ESCON		Modular combination	
28 IP Rating		IP54			EPOS			
29 Enclosure		Enclosed						
30 Insulation Class		B						

+L mm = approximate added length

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