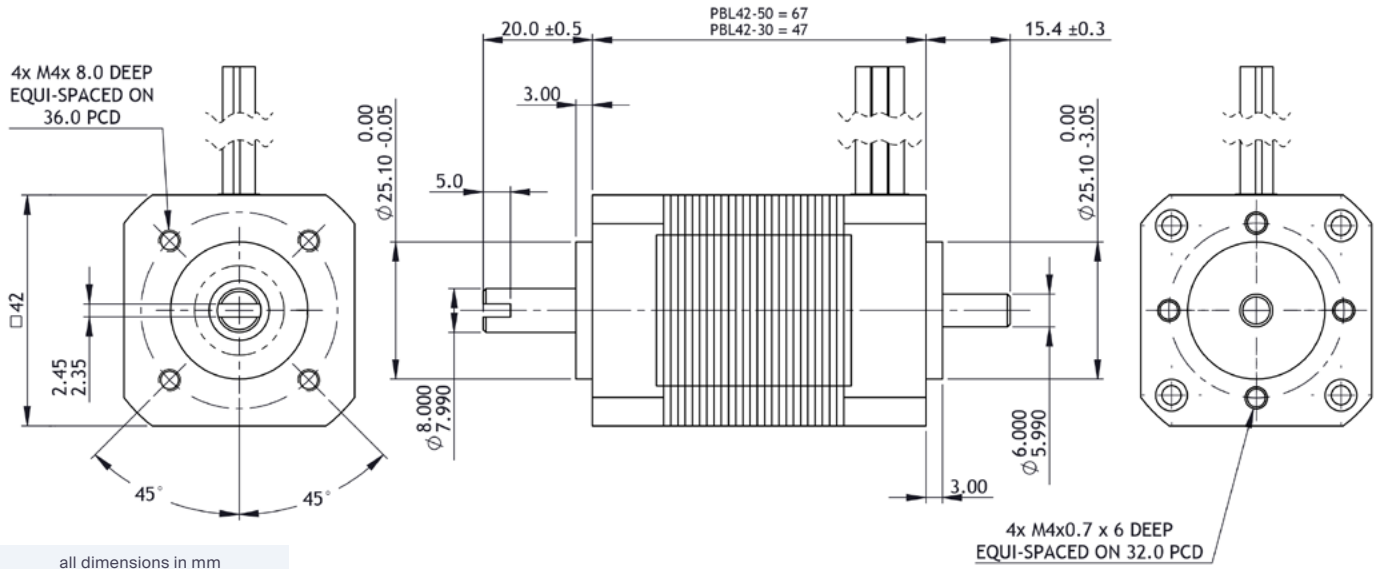


PBL42 BLDC motor

Ø42 mm frame // 30 / 50 mm stack

PARVALUX



all dimensions in mm

Part number key

Modular	#####
Standard	#####
Special	#####

Available on request: custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors

All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found on our website

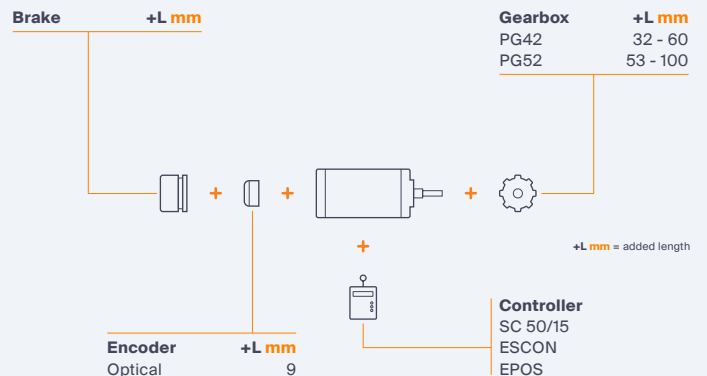
Technical data

1 Part number		776614	776615	776616	776617
2 Nominal power	W	52	52	77	77
3 Nominal voltage	V	24	48	24	48
4 No load speed	rpm	6433	5000	5000	5000
5 No load current	A	0.4	0.2	0.5	0.3
6 Nominal speed	rpm	4000	4000	4000	4000
7 Nominal continuous torque (S1)	Nm	0.13	0.13	0.19	0.19
8 Nominal continuous current (S1)	A	3.5	1.8	4.6	2.3
9 Max Intermittent torque (S2 - 15 minutes)	Nm	0.21	0.21	0.31	0.31
10 Stall current	A	13.1	6.6	21.0	11.0
11 Stall torque	Nm	0.51	0.51	0.93	0.93
12 Stack length	mm	30	30	50	50
13 Maximum efficiency	%	76	76	71	72
14 Ra	Ω	-	-	-	-
15 Ri	mH	-	-	-	-
16 Speed constant	rpm/V	230.4	115.2	213	106.7
17 Torque constant	Nm/A	0.04	0.08	0.045	0.09
18 Speed torque gradient	rpm/Nm	12625	12624	5405	5405
19 Rotor inertia	gcm ²	33	33	55	55
20 Weight	Kg	0.5	0.5	0.7	0.7

Thermal data

22 Ambient temperature	°C	40
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Compatible products



Mechanical data

23 Radial load [distance from flange]	N [mm]	130 [15]
24 Radial play	N [@g]	0.06 [450]
25 Axial end play	N [@g]	0.06 [450]

Other data

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