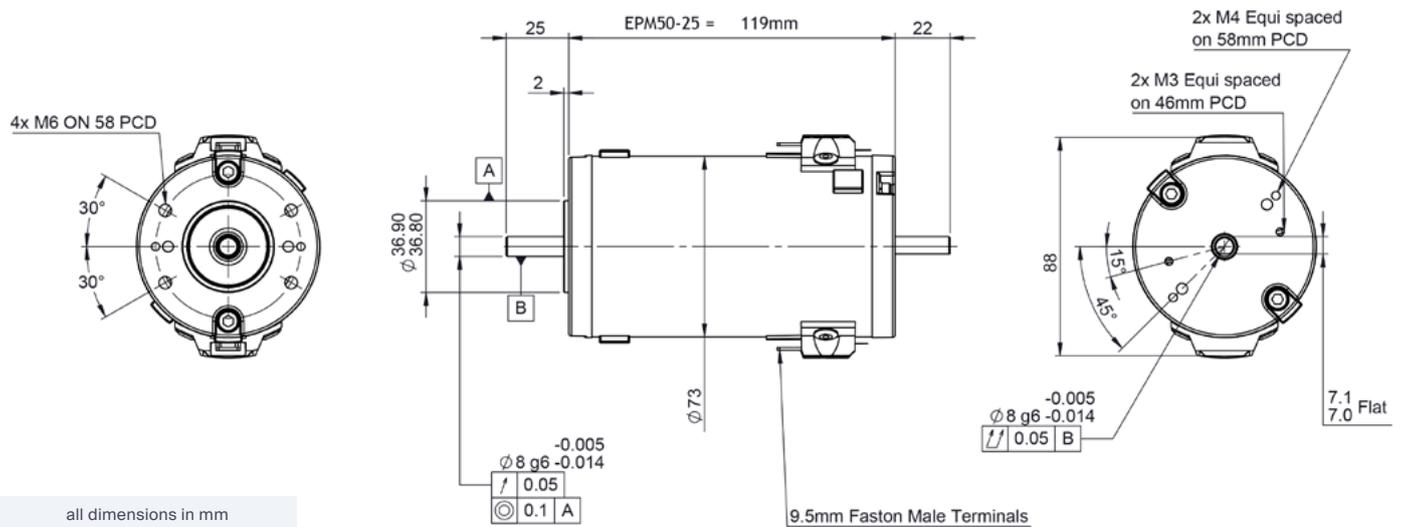


EPM50-25 PMDC motor

Ø73 mm frame // 25 mm stack

parvalux
by **maxon**



all dimensions in mm

Part number key

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

Please see our customisation options page for details on the modifications available on our products. Advice and guidance on these options are available from your local sales contact.

Technical data

1 Part number		-	-	-	-
2 Nominal power	W	79	79	79	79
3 Nominal voltage	V	12	24	40	48
4 No load speed	rpm	4376	4136	4073	3893
5 No load current	A	1.75	1.04	0.61	0.31
6 Nominal speed	rpm	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.25	0.25	0.25	0.25
8 Nominal continuous current (S1)	A	12.3	5.6	3.3	2.6
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.44	0.44	0.44	0.44
10 Stall current	A	35.7	23.6	13.8	11.5
11 Stall torque	Nm	0.81	1.16	1.14	1.20
12 Stack length	mm	25	25	25	25
13 Maximum efficiency	%	61	64	65	70
14 Terminal resistance	Ω	0.34	1.02	2.91	4.19
15 Terminal inductance	mH	-	-	-	-
16 Speed constant	rpm/V	383.4	180.3	106.6	83.4
17 Torque constant	Nm/A	0.024	0.050	0.080	0.110
18 Speed torque gradient	rpm/Nm	5800	3621	3621	3428
19 Rotor inertia	Kgcm²	1.41 x 10 ⁻⁴			

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	150 [15]
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Other data

22 Number of poles		2
23 Weight	Kg	1.40
24 IP rating		IP44
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Compatible products

Gearbox	+L mm	Brake	+L mm	Encoder	+L mm
GB12	110.0	1.5 Nm	28.2	Incr. 5-pin	9.0
GB80	80.0	2.0 Nm	32.4	Incr. 10-pin	9.0
		4.0 Nm	27.7	Diff. 10-pin	12.0
		Power-on	26.4	Magnetic	12.0

Controller	Key
SC 50/15	Standard combination
ESCON	Modular combination
EPOS	

+L mm = approximate added length*

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