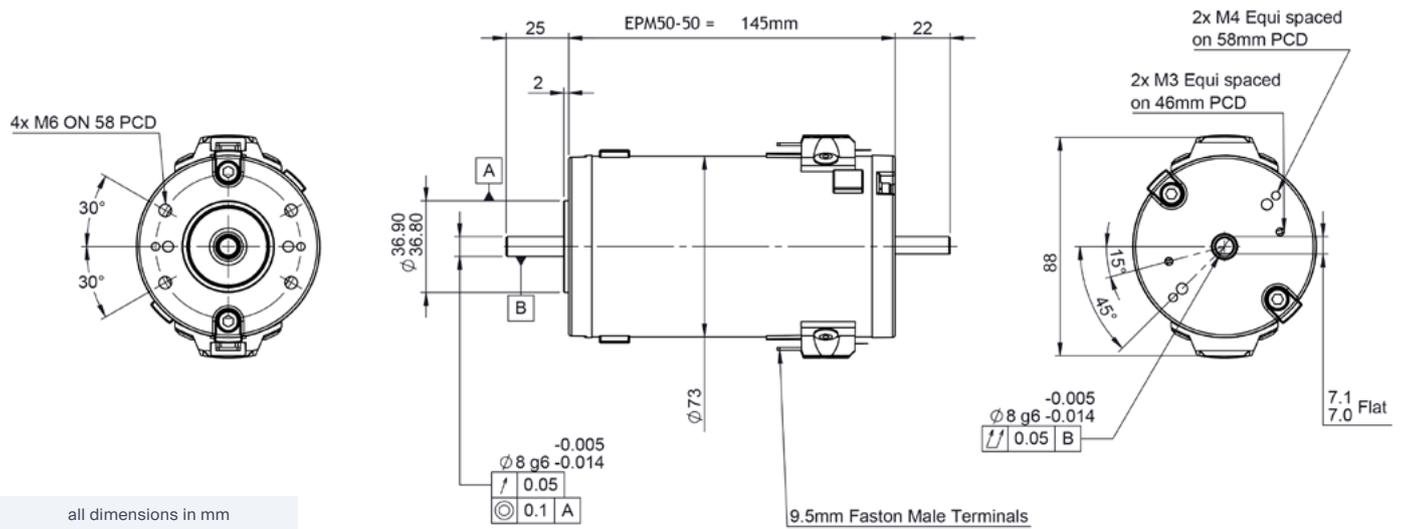


EPM50-50 PMDC motor

Ø73 mm frame // 50 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	123	123	123	123
3 Nominal voltage	V	12	24	40	48
4 No load speed	rpm	4051	3624	3579	3624
5 No load current	A	1.26	0.50	0.30	0.25
6 Nominal speed	rpm	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.39	0.39	0.39	0.39
8 Nominal continuous current (S1)	A	14.3	6.7	4.0	3.3
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.65	0.65	0.65	0.65
10 Stall current	A	77	41	24	20
11 Stall torque	Nm	2.3	2.5	2.5	2.5
12 Stack length	mm	50	50	50	50
13 Maximum efficiency	%	81	79	80	80
14 Terminal resistance	Ω	0.16	0.59	1.68	2.36
15 Terminal inductance	mH	-	-	-	-
16 Speed constant	rpm/V	1786	148	88	74
17 Torque constant	Nm/A	0.03	0.06	0.11	0.13
18 Speed torque gradient	rpm/Nm	1786	1426	1426	1426
19 Rotor inertia	Kgcm²	2.28×10^{-4}	2.28×10^{-4}	2.28×10^{-4}	2.28×10^{-4}

Thermal data

20 Ambient temperature	°C	40
------------------------	-----------	----

Mechanical data

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

Other data

22 Number of poles		2
23 Weight	Kg	2.05
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