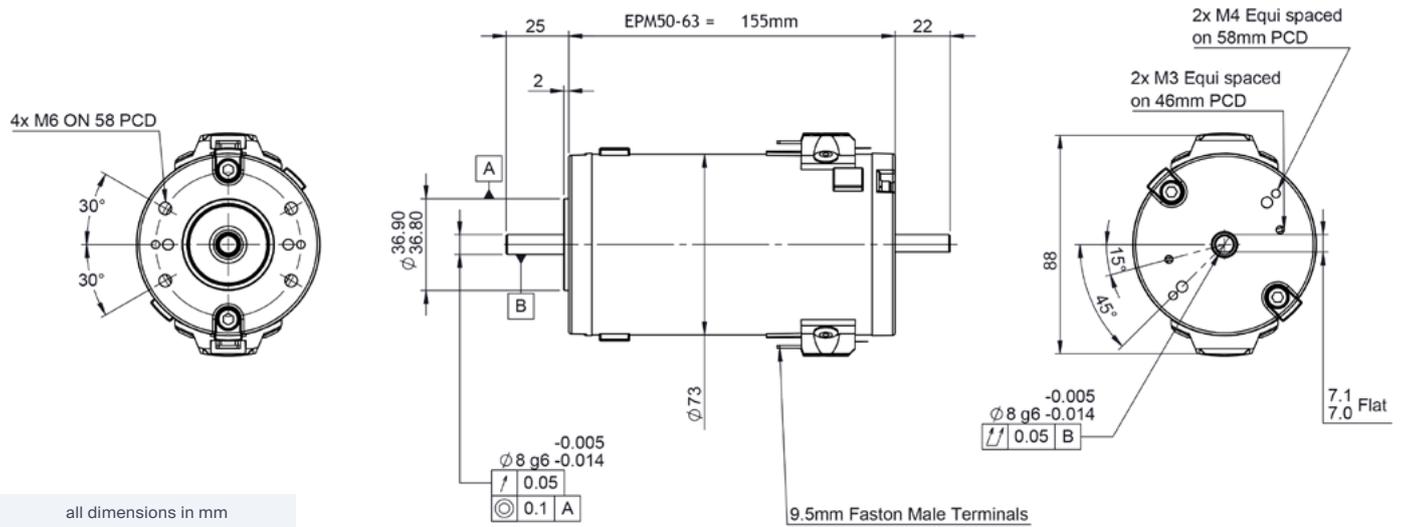


EPM50-63 PMDC motor

Ø73 mm frame // 63 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	151	151	151	151
3 Nominal voltage	V	12	24	40	48
4 No load speed	rpm	4119	3912	3650	3598
5 No load current	A	1.30	0.50	0.27	0.22
6 Nominal speed	rpm	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.48	0.48	0.48	0.48
8 Nominal continuous current (S1)	A	18.0	8.4	4.9	4.1
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.80	0.80	0.80	0.80
10 Stall current	A	79	42	32	26
11 Stall torque	Nm	2.3	2.8	3.3	3.2
12 Stack length	mm	63	63	63	63
13 Maximum efficiency	%	80	80	81	81
14 Terminal resistance	Ω	0.15	0.57	1.25	1.86
15 Terminal inductance	mH	-	-	-	-
16 Speed constant	rpm/V	330	178	90	74
17 Torque constant	Nm/A	0.03	0.06	0.10	0.13
18 Speed torque gradient	rpm/Nm	1835	1412	1121	1120
19 Rotor inertia	Kgcm²	2.48 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	2.15
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