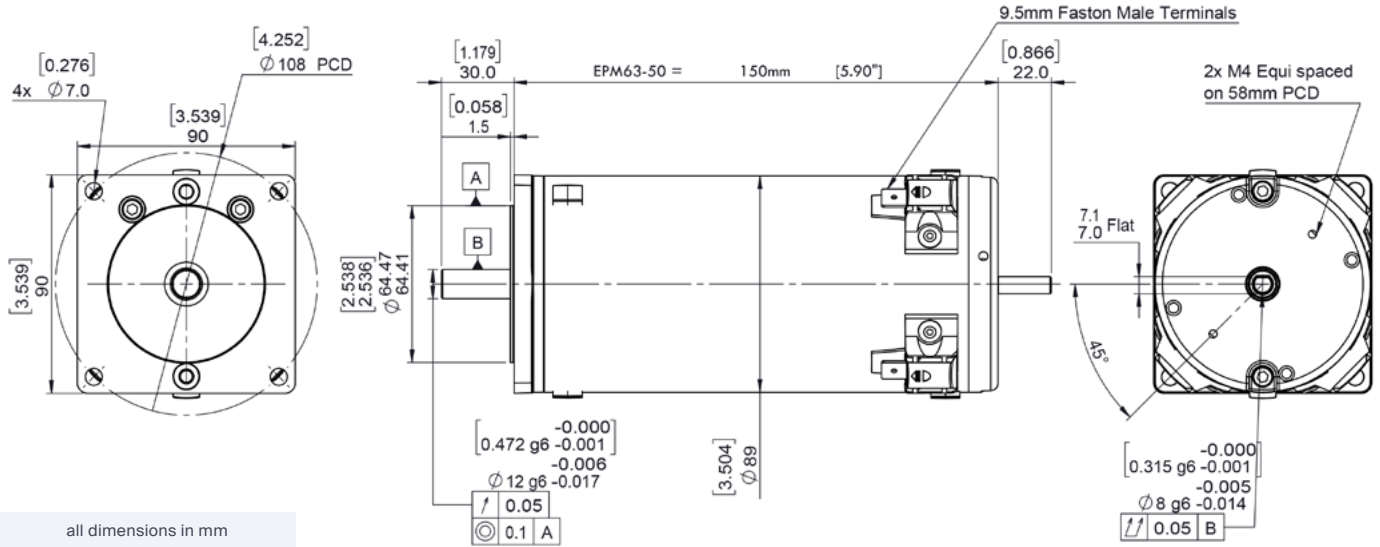


EPM63-50 PMDC motor

Ø89 mm frame // 50 mm stack

parvalux
by **maxon**



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

Technical data					
1 Part number		-	-	-	-
2 Nominal power	W	220	220	220	220
3 Nominal voltage	V	12	24	40	48
4 No load speed	rpm	3899	3992	3881	3854
5 No load current	A	4.70	2.60	1.50	1.24
6 Nominal speed	rpm	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.7	0.7	0.7	0.7
8 Nominal continuous current (S1)	A	28.4	14.5	8.4	7.0
9 Max. intermittent torque (S2 - 15 minutes)	Nm	1.17	1.17	1.17	1.17
10 Stall current	A	115	83	47	39
11 Stall torque	Nm	3.3	4.8	4.7	4.6
12 Stack length	mm	50	50	50	50
13 Maximum efficiency	%	67	70	70	70
14 Terminal resistance	Ω	0.10	0.29	0.85	1.24
15 Terminal inductance	mH	-	-	-	-
16 Speed constant	rpm/V	320	159	93	77
17 Torque constant	Nm/A	0.03	0.06	0.10	0.12
18 Speed torque gradient	rpm/Nm	1200	831	831	831
19 Rotor inertia	Kgcm²	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴	6.13 x 10 ⁻⁴

Thermal data	
20 Ambient temperature	°C 40

Mechanical data	
21 Radial load [distance from flange]	N [mm] 200 [15]

Other data	
22 Number of poles	4
23 Weight	Kg 3.00
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
GB9	138.0	1.5 Nm	28.2	Incr. 5-pin	9.0
GB12	110.0	2.0 Nm	32.4	Incr. 10-pin	9.0
GB80	80.0	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