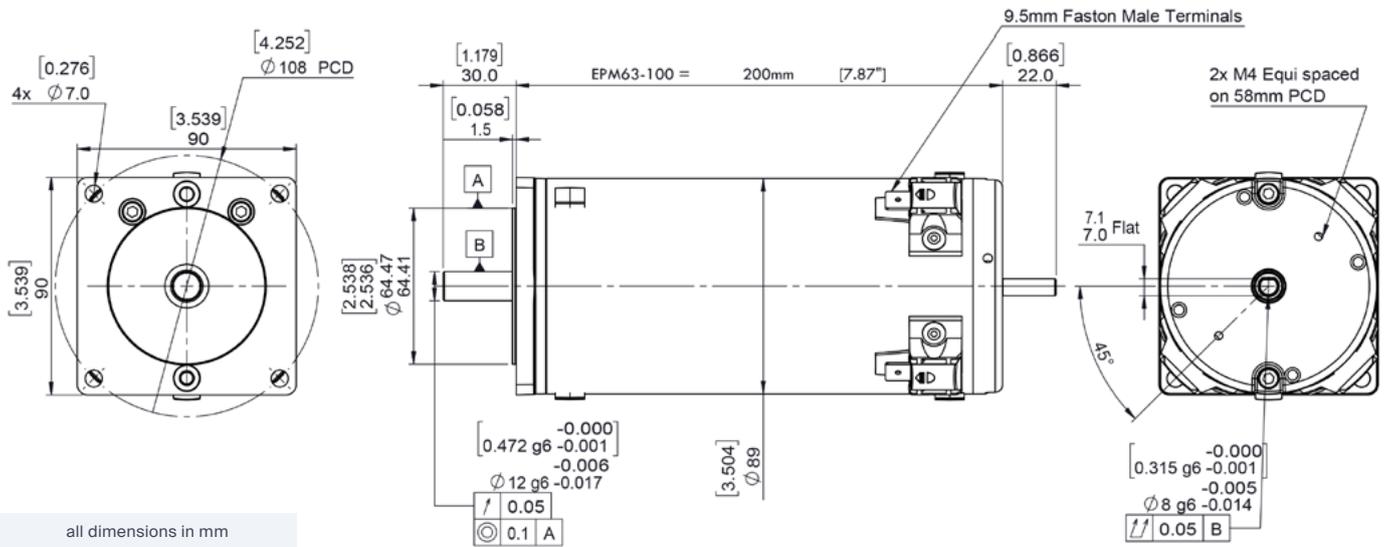


EPM63-100 PMDC motor

Ø89 mm frame // 100 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	377	377	377	377
3 Nominal voltage	V	12	24	40	48
4 No load speed	rpm	4771	3895	3819	3895
5 No load current	A	5.20	1.90	1.10	0.94
6 Nominal speed	rpm	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	1.2	1.2	1.2	1.2
8 Nominal continuous current (S1)	A	54.6	22.3	13.1	11.1
9 Max. intermittent torque (S2 - 15 minutes)	Nm	1.90	1.90	1.90	1.90
10 Stall current	A	194	134	77	67
11 Stall torque	Nm	4.6	7.7	7.5	7.7
12 Stack length	mm	100	100	100	100
13 Maximum efficiency	%	73	78	78	78
14 Terminal resistance	Ω	0.062	0.300	0.520	0.720
15 Terminal inductance	mH	-	-	-	-
16 Speed constant	rpm/V	393	158	93	79
17 Torque constant	Nm/A	0.024	0.060	0.100	0.120
18 Speed torque gradient	rpm/Nm	1041	509	509	509
19 Rotor inertia	gcm²	9.64 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 4.50
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