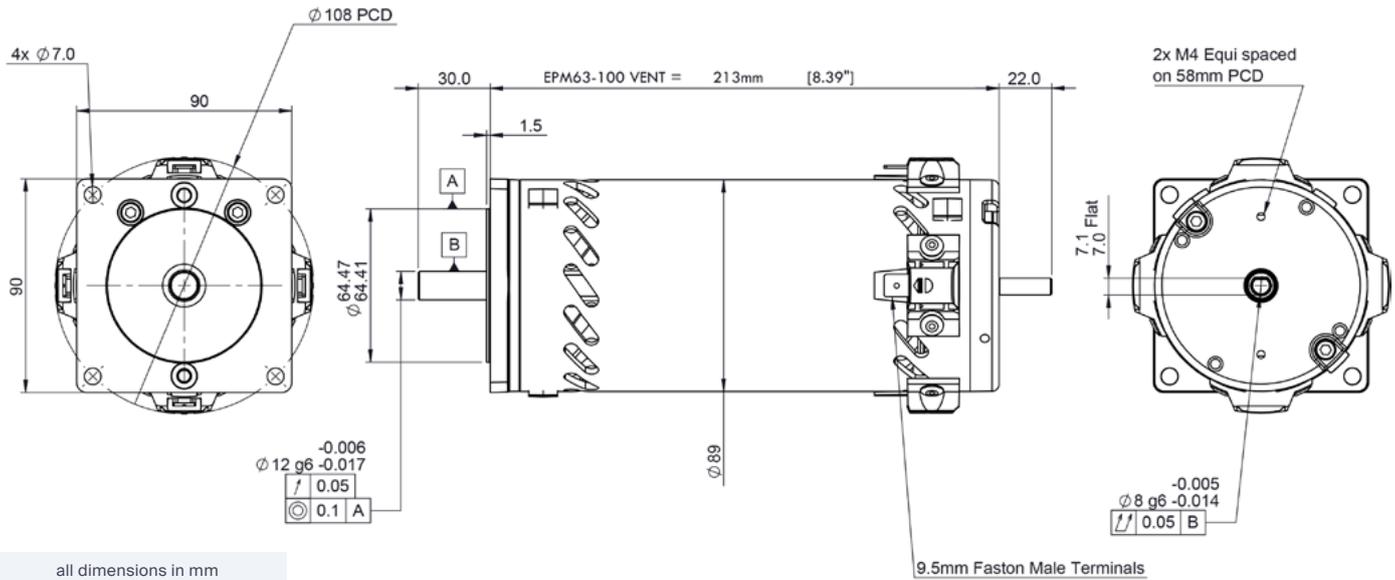


EPM63-100 Ventilated PMDC motor

Ø89 mm frame // 100 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	471	471	471	471
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	1.5	1.5	1.5	1.5
8 Nominal continuous current (S1)	A	67.0	27.5	16.2	13.7
9 Max. intermittent torque (S2 - 15 minutes)	Nm	2.00	2.40	2.40	2.40
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	%	67	78	78	78
14 Terminal resistance	Ω	0.06	0.18	0.52	0.72
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	Kg/cm²	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	4.60
24 IP rating		IP21
25 Enclosure		Ventilated
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

SC 50/15
ESCON
EPOS

Key

Standard combination
Modular combination

+L mm = approximate added length*

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