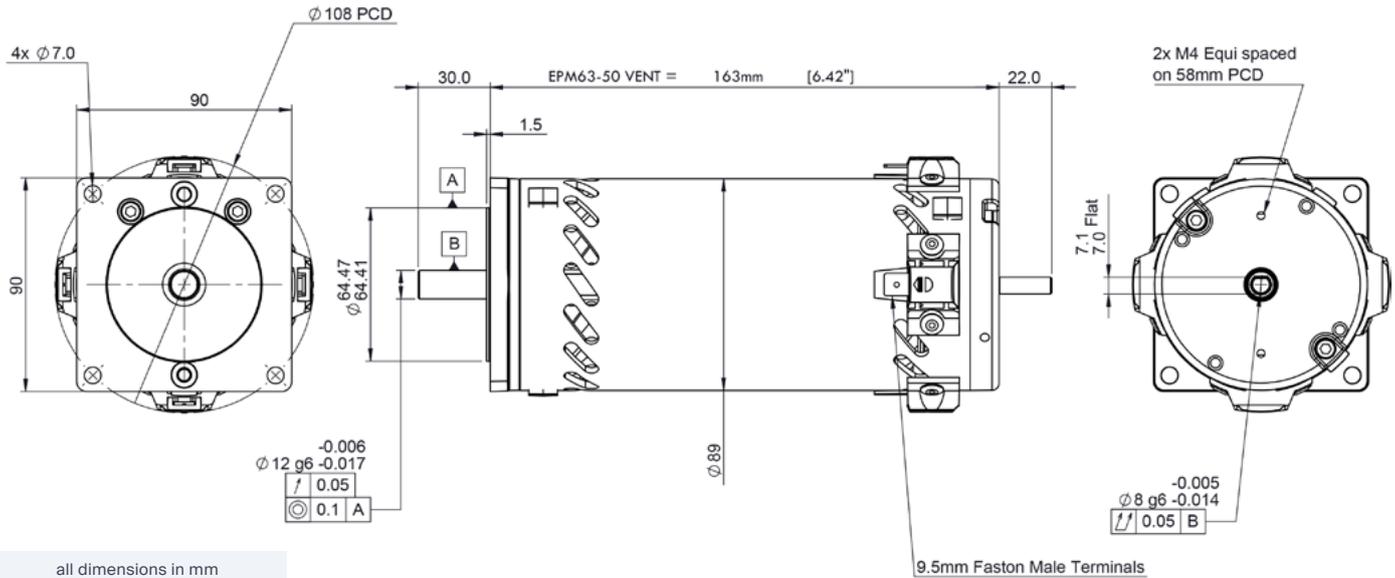


# EPM63-50 Ventilated PMDC motor

Ø89 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	<b>W</b>	327	327	327	327
3 Nominal voltage	<b>V</b>	12	24	40	48
4 No load speed	<b>rpm</b>	4548	3992	3881	3854
5 No load current	<b>A</b>	5.50	2.60	1.50	1.04
6 Nominal speed	<b>rpm</b>	3000	3000	3000	3000
7 Nominal continuous torque (S1)	<b>Nm</b>	1.04	1.04	1.04	1.04
8 Nominal continuous current (S1)	<b>A</b>	46.0	20.0	11.4	7.0
9 Max. intermittent torque (S2 - 15 minutes)	<b>Nm</b>	1.60	1.60	1.60	1.60
10 Stall current	<b>A</b>	156.0	83.0	47.0	38.7
11 Stall torque	<b>Nm</b>	3.8	4.8	4.7	4.6
12 Stack length	<b>mm</b>	50	50	50	50
13 Maximum efficiency	<b>%</b>	69	70	70	70
14 Terminal resistance	<b>Ω</b>	0.08	0.29	0.85	1.24
15 Terminal inductance	<b>mH</b>	-	-	-	-
16 Speed constant	<b>rpm/V</b>	371	159	93	77
17 Torque constant	<b>Nm/A</b>	0.025	0.059	0.100	0.123
18 Speed torque gradient	<b>rpm/Nm</b>	1200	831	831	831
19 Rotor inertia	<b>Kgcm<sup>2</sup></b>	6.13 x 10 <sup>-4</sup>			

## Thermal data

20 Ambient temperature	<b>°C</b>	40
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## Mechanical data

21 Radial load [distance from flange]	<b>N [mm]</b>	200 [15]
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## Other data

22 Number of poles		4
23 Weight	<b>Kg</b>	3.10
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	Key
SC 50/15	Standard combination
ESCON	<b>Modular combination</b>
EPOS	

+L mm = approximate added length\*

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