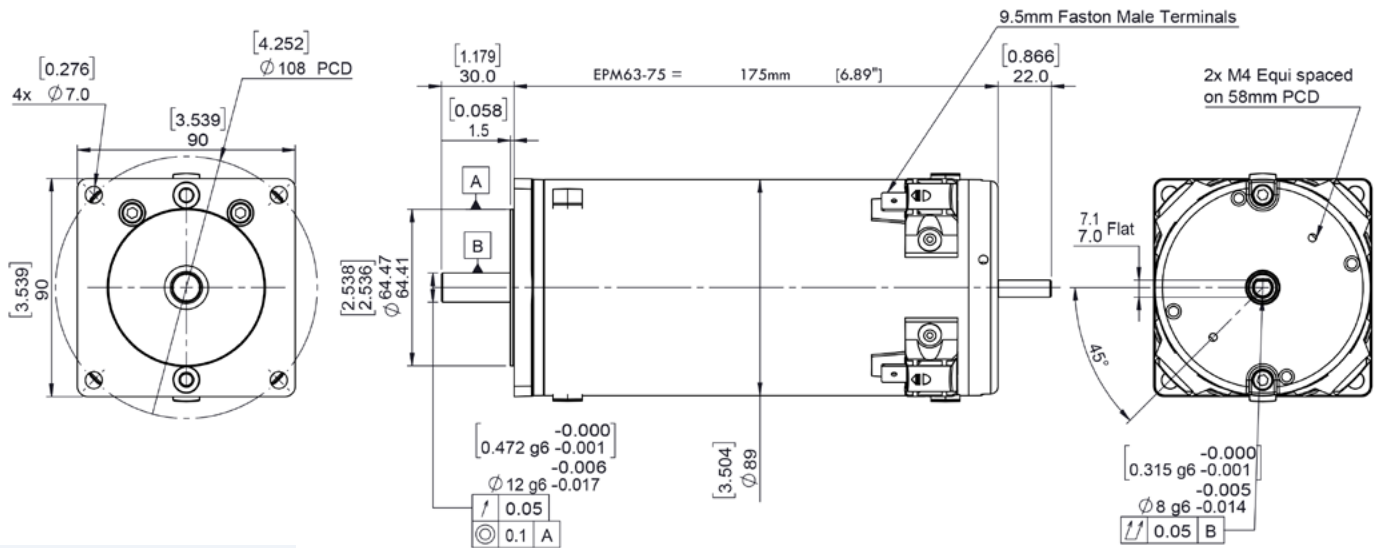


# EPM63-75 PMDC motor

Ø90 mm frame // 75 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>	283	283	283	283
3 Nominal voltage	<b>V</b>	12	24	40	48
4 No load speed	<b>rpm</b>	3564	3973	3913	3973
5 No load current	<b>A</b>	3.40	1.70	1.00	0.85
6 Nominal speed	<b>rpm</b>	3000	3000	3000	3000
7 Nominal continuous torque (S1)	<b>Nm</b>	0.9	0.9	0.9	0.9
8 Nominal continuous current (S1)	<b>A</b>	25.8	13.2	7.8	6.6
9 Max. intermittent torque (S2 - 15 minutes)	<b>Nm</b>	1.50	1.50	1.50	1.50
10 Stall current	<b>A</b>	178.0	88.0	51.3	44.0
11 Stall torque	<b>Nm</b>	5.5	5.3	5.2	5.3
12 Stack length	<b>mm</b>	75	75	75	75
13 Maximum efficiency	<b>%</b>	67	79	79	80
14 Terminal resistance	<b>Ω</b>	0.067	0.272	0.780	1.090
15 Terminal inductance	<b>mH</b>	-	-	-	-
16 Speed constant	<b>rpm/V</b>	288.0	160.0	94.4	80.0
17 Torque constant	<b>Nm/A</b>	0.031	0.061	0.100	0.120
18 Speed torque gradient	<b>rpm/Nm</b>	649	755	755	755
19 Rotor inertia	<b>Kgcm<sup>2</sup></b>	2.83 x 10 <sup>-4</sup>	2.83 x 10 <sup>-4</sup>	2.83 x 10 <sup>-4</sup>	2.83 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>	4.00
24 IP rating		IP44
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

### Compatible products

Gearbox	+L mm	Brake	+L mm	Controller
GB9	138	2.0 Nm	32.2	SC 50/15
GB12	110			ESCON
GB80	80			EPOS
		Encoder	+L mm	
		Optical	9	
		Magnetic	12	

+L mm = approximate added length\*

### Compatible products key

Product name	Standard combination
Product name	Modular combination

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