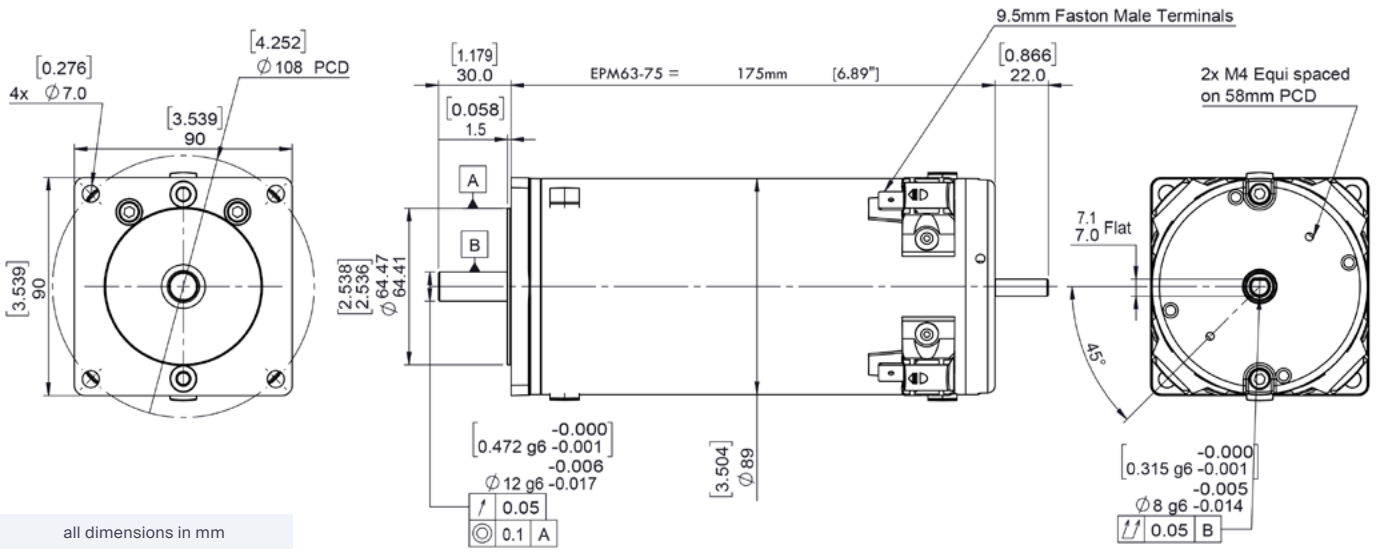
EPM63-75 PMDC motor

Ø89 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	W	283	283	283	283
3	Nominal voltage	V	12	24	40	48
4	No load speed	rpm	3564	3973	3913	3973
5	No load current	A	3.40	1.70	1.00	0.85
6	Nominal speed	rpm	3000	3000	3000	3000
7	Nominal continuous torque (S1)	Nm	0.9	0.9	0.9	0.9
8	Nominal continuous current (S1)	A	25.8	13.2	7.8	6.6
9	Max. intermittent torque (S2 - 15 minutes)	Nm	1.50	1.50	1.50	1.50
10	Stall current	A	178.0	88.0	51.3	44.0
11	Stall torque	Nm	5.5	5.3	5.2	5.3
12	Stack length	mm	75	75	75	75
13	Maximum efficiency	%	67	79	79	80
14	Terminal resistance	Ω	0.067	0.272	0.780	1.090
15	Terminal inductance	mH	-	-	-	-
16	Speed constant	rpm/V	288.0	160.0	94.4	80.0
17	Torque constant	Nm/A	0.031	0.061	0.100	0.120
18	Speed torque gradient	rpm/Nm	649	755	755	755
19	Rotor inertia	Kgcm²	2.83 x 10^{-4}	2.83 x 10^{-4}	2.83 x 10^{-4}	2.83 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	4.00
24	IP rating		IP44
25	Enclosure		Enclosed
26	Insulation Class		F
27	Reversible		Yes

Compatible products

Gearbox	+L mm
GB9	138.0
GB12	110.0
GB80	80.0

Brake	+L mm
1.5 Nm	28.2
2.0 Nm	32.4
4.0 Nm	27.7
Power-on	26.4

Encoder	+L mm
Incr. 5-pin	9.0
Incr. 10-pin	9.0
Diff. 10-pin	12.0
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

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additional information available on request