

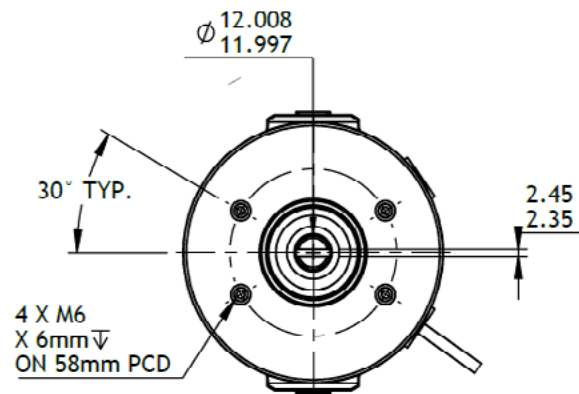
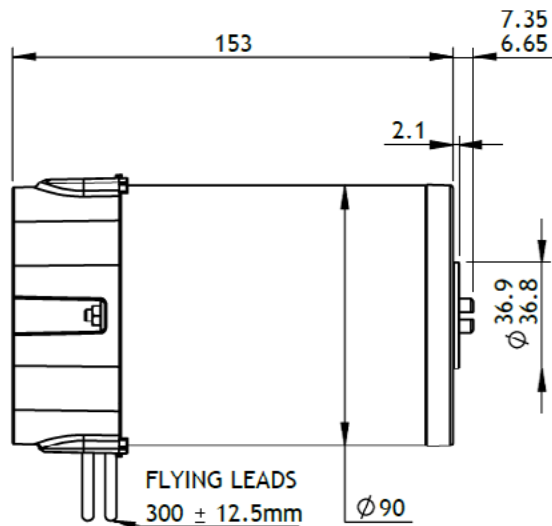
PM90-150

PMDC motor

Ø90 mm frame

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	157	210	210
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3870	3423	3480
5 No load current	A	2.6	1.1	0.6
6 Nominal speed	rpm	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.50	0.67	0.67
8 Nominal continuous current (S1)	A	25.5	10.5	5.7
9 Max. intermittent torque (S2 - 15 minutes)	Nm	1.17	1.17	1.17
10 Stall current	A	83.7	82.1	51.8
11 Stall torque	Nm	2.40	5.61	6.70
12 Stack length	mm	50	50	50
13 Maximum efficiency	%	67	81	80
14 Terminal resistance - phase to phase	Ω	0.112	0.294	0.580
15 Terminal inductance - phase to phase	mH	100.5	504.4	1987.0
16 Speed constant	rpm/V	314.9	139.0	69.1
17 Torque constant	Nm/A	0.030	0.069	0.130
18 Speed torque gradient	rpm/Nm	1509.7	590.0	511.0
19 Rotor inertia	Kgcm ²	6.57 x 10 ⁻⁴	6.57 x 10 ⁻⁴	6.57 x 10 ⁻⁴

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	200 [15]
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Other data

22 Number of poles		2
23 Weight	Kg	3.60
24 IP rating		IP54
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
				Key	
				Controller	Standard combination
				SC 50/15	
				ESCON	Modular combination
				EPOS	

+L mm = approximate added length*

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