EPM63-50 PMDC motor

Ø90 mm frame // 50 mm stack

parvalux by **maxon**

9.5mm Faston Male Terminals

2x M4 Equi spaced on 58mm PCD

EPM63-50 =   150mm   [5.90"]
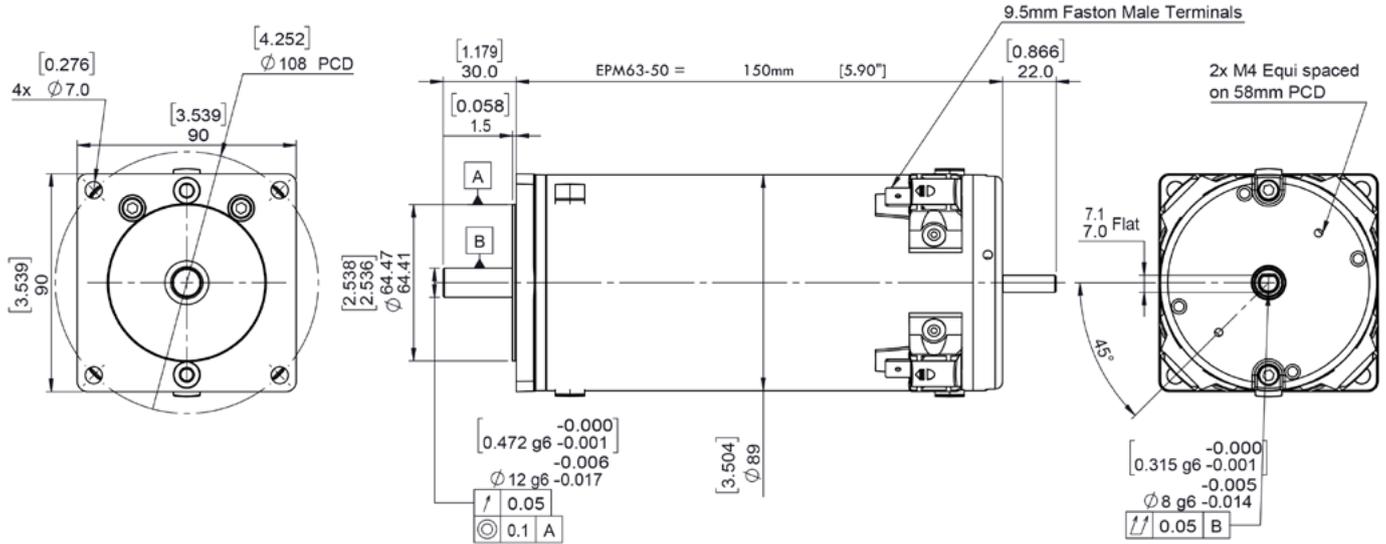
all dimensions in mm

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	220	220	220	220
3	Nominal voltage	V	12	24	40	48
4	No load speed	rpm	3899	3992	3881	3854
5	No load current	A	4.70	2.60	1.50	1.24
6	Nominal speed	rpm	3000	3000	3000	3000
7	Nominal continuous torque (S1)	Nm	0.7	0.7	0.7	0.7
8	Nominal continuous current (S1)	A	28.4	14.5	8.4	7.0
9	Max. intermittent torque (S2 - 15 minutes)	Nm	1.17	1.17	1.17	1.17
10	Stall current	A	115	83	47	39
11	Stall torque	Nm	3.3	4.8	4.7	4.6
12	Stack length	mm	50	50	50	50
13	Maximum efficiency	%	67	70	70	70
14	Terminal resistance	Ω	0.10	0.29	0.85	1.24
15	Terminal inductance	mH	-	-	-	-
16	Speed constant	rpm/V	320	159	93	77
17	Torque constant	Nm/A	0.03	0.06	0.10	0.12
18	Speed torque gradient	rpm/Nm	1200	831	831	831
19	Rotor inertia	Kgcm²	6.13×10^{-4}	6.13×10^{-4}	6.13×10^{-4}	6.13×10^{-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	3.00
24	IP rating		IP44
25	Enclosure		Enclosed
26	Insulation Class		F
27	Reversible		Yes

Compatible products

Gearbox	+L mm
GB9	138
GB12	110
GB80	80

Brake	+L mm
2.0 Nm	32.2

Encoder	+L mm
Optical	9
Magnetic	12

Controller
SC 50/15
ESCON
EPOS

+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