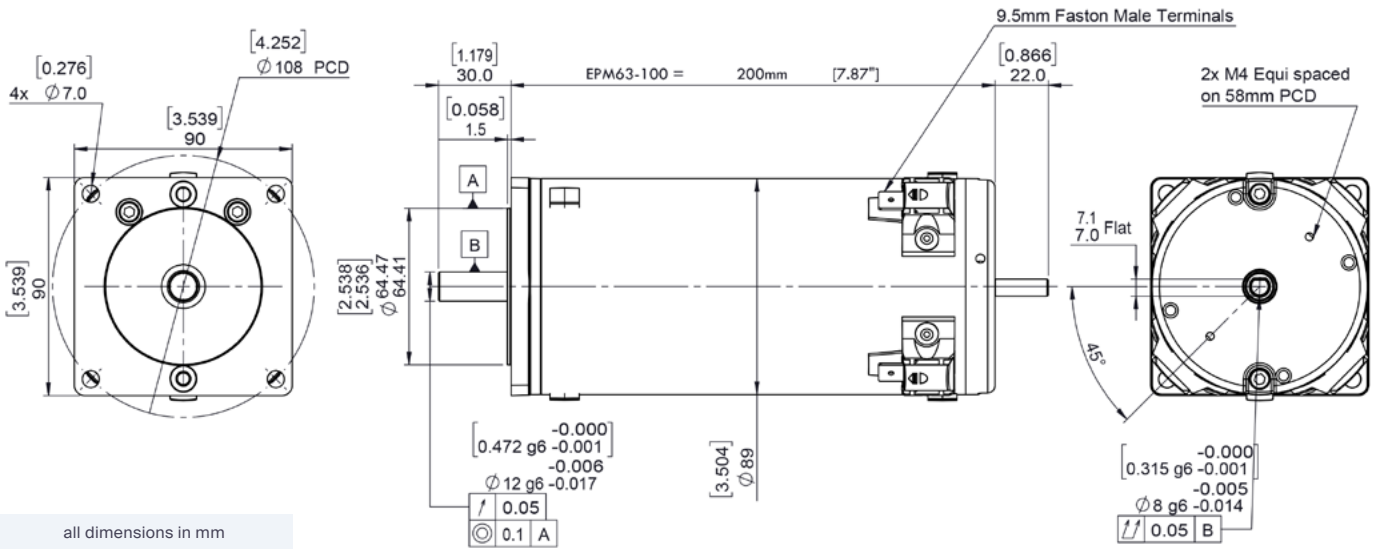
EPM63-100 PMDC motor

Ø90 mm frame // 100 mm stack

parvalux by maxon



all dimensions in mm

Part number key		
Modular	######	
Standard	######	
Calculated data	######	

Available on request: Custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors

All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found on our website

	Technical data					
1	Part number		-	-	-	-
2	Nominal power	W	377	377	377	377
3	Nominal voltage	V	12	24	40	48
4	No load speed	rpm	4771	3895	3819	3895
5	No load current	A	5.20	1.90	1.10	0.94
6	Nominal speed	rpm	3000	3000	3000	3000
7	Nominal continuous torque (S1)	Nm	1.2	1.2	1.2	1.2
8	Nominal continuous current (S1)	A	54.6	22.3	13.1	11.1
9	Max. intermittent torque (S3)	Nm	1.90	1.90	1.90	1.90
10	Stall current	A	194	134	77	67
11	Stall torque	Nm	4.6	7.7	7.5	7.7
12	Stack length	mm	100	100	100	100
13	Maximum efficiency	%	73	78	78	78
14	Terminal resistance - phase to phase	Ω	0.062	0.300	0.520	0.720
15	Terminal inductance - phase to phase	mH	-	-	-	-
16	Speed constant	rpm/V	393	158	93	79
17	Torque constant	Nm/A	0.024	0.060	0.100	0.120
18	Speed torque gradient	rpm/Nm	1041	509	509	509
19	Rotor inertia	gcm²	9.64×10^{-4}	9.64×10^{-4}	9.64×10^{-4}	9.64×10^{-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	4.50
24	IP rating		IP44
25	Enclosure		Enclosed
26	Insulation Class		F
27	Reversible		Yes

Modular system

Brake	+L mm
2.0 Nm	32.2

Gearbox	+L mm
GB4/41	110
GB12	110
GB9	138
PGS62	44 - 90
PGS71	49 - 99

+L mm = approximate added length*

Encoder	+L mm
Optical	9
Magnetic	12

Controller
SC 50/15
ESCON
EPOS

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