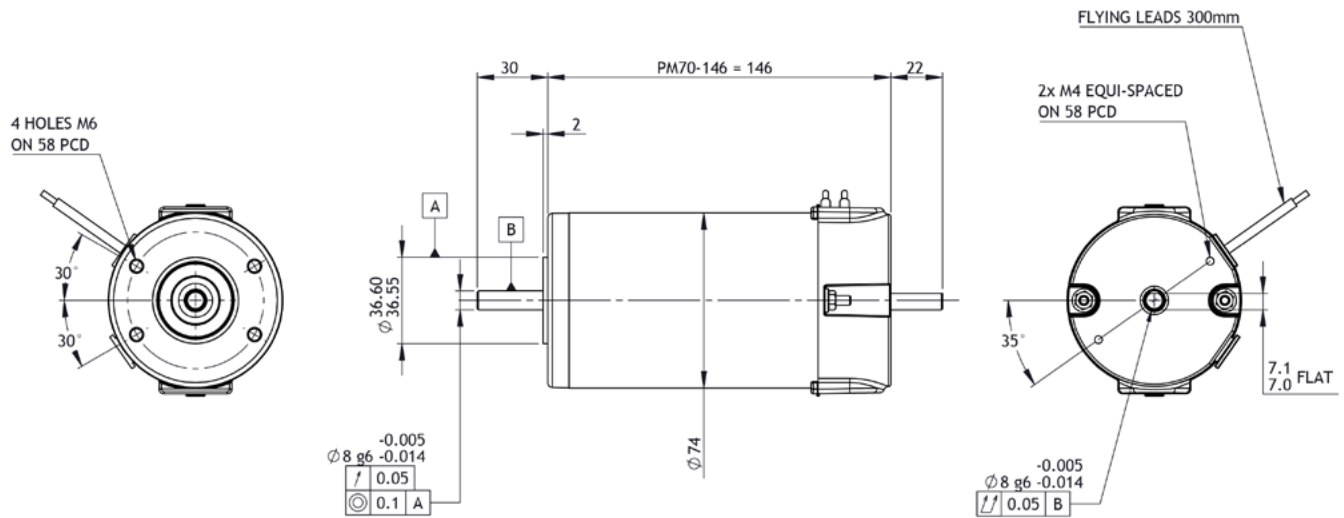


PM70-146 PMDC motor

Ø74 mm frame

parvalux
by **maxon**



all dimensions in mm

Part number key

Modular	#####
Standard	#####
Calculated data	#####

Technical data

1 Part number		-	-	-
2 Nominal power	W	157	157	157
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3970	3580	3310
5 No load current	A	1.80	0.80	0.37
6 Nominal speed	rpm	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.5	0.5	0.5
8 Nominal continuous current (S1)	A	21.0	9.0	4.2
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.88	0.88	0.88
10 Stall current	A	70.7	48.0	28.7
11 Stall torque	Nm	1.8	2.8	3.6
12 Stack length	mm	60	60	60
13 Maximum efficiency	%	72	79	82
14 Terminal resistance - phase to phase	Ω	0.10	0.36	1.51
15 Terminal inductance - phase to phase	mH	0.15	0.81	3.29
16 Speed constant	rpm/V	333.1	150.4	69.1
17 Torque constant	Nm/A	0.026	0.060	0.130
18 Speed torque gradient	rpm/Nm	2423	1383	985
19 Rotor inertia	Kgcm²	2.5 x 10 ⁻⁴	2.5 x 10 ⁻⁴	2.5 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	2.25
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
GB12	110.0	1.5 Nm	28.2	Incr. 5-pin	9.0
GB80	80.0	2.0 Nm	32.4	Incr. 10-pin	9.0
		4.0 Nm	27.7	Diff. 10-pin	12.0
		Power-on	26.4	Magnetic	12.0

Controller	Key
SC 50/15	Standard combination
ESCON	Modular combination
EPOS	

+L mm = approximate added length*

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