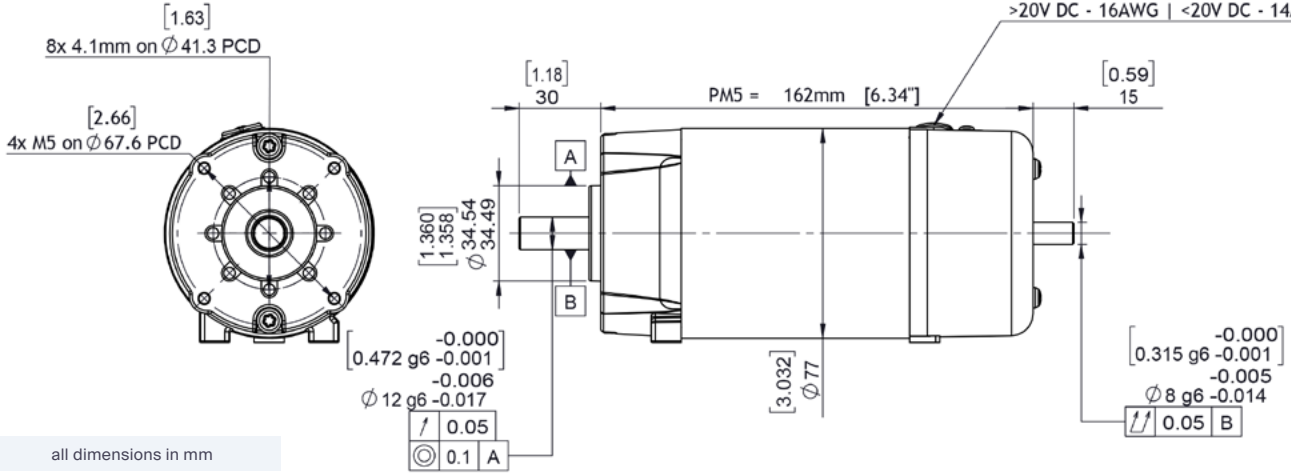


# PM5 PMDC motor

Ø76 mm frame // 69 mm stack

**parvalux**  
by **maxon**

Lead Length - 300mm [11.81"]  
Type - UL3289 / CSA CL 1503 600V 150 °C  
Colour - Red & Black  
>20V DC - 16AWG | <20V DC - 14AWG



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		774940	774941	774942	774943	774944	774945
2 Nominal power	<b>W</b>	170	170	170	170	170	170
3 Nominal voltage	<b>V</b>	12	24	40	48	110	220
4 No load speed	<b>rpm</b>	3602	3869	3789	3748	3511	3726
5 No load current	<b>A</b>	1.80	1.31	0.41	0.77	0.29	0.11
6 Nominal speed	<b>rpm</b>	3000	3000	3000	3000	3000	3000
7 Nominal continuous torque (S1)	<b>Nm</b>	0.54	0.54	0.54	0.54	0.54	0.54
8 Nominal continuous current (S1)	<b>A</b>	18.3	10.6	5.6	4.9	2.1	1.1
9 Max. intermittent torque (S2 - 15 minutes)	<b>Nm</b>	0.70	0.70	0.70	0.70	0.70	0.70
10 Stall current	<b>A</b>	66.0	53.4	36.0	26.0	12.3	1.1
11 Stall torque	<b>Nm</b>	2.1	3.0	3.6	3.3	3.6	3.3
12 Stack length	<b>mm</b>	69	69	69	69	69	69
13 Maximum efficiency	<b>%</b>	73	71	81	75	73	74
14 Terminal resistance - phase to phase	<b>Ω</b>	0.18	0.45	1.13	1.85	8.97	36.00
15 Terminal inductance - phase to phase	<b>mH</b>	-	-	-	-	-	-
16 Speed constant	<b>rpm/V</b>	301	156	91	78	32	16
17 Torque constant	<b>Nm/A</b>	0.033	0.058	0.100	0.130	0.300	0.550
18 Speed torque gradient	<b>rpm/Nm</b>	1723	1284	1048	1146	975	1136
19 Rotor inertia	<b>gcm<sup>2</sup></b>	3250	3250	3250	3250	3250	3250

Thermal data	
20 Ambient temperature	°C 40

Mechanical data	
21 Radial load [distance from flange]	<b>N [mm]</b> 200 [15]

Other data	
22 Number of poles	2
23 Weight	<b>Kg</b> 2.7
24 IP rating	IP54
25 Enclosure	Enclosed
26 Insulation Class	F
27 Reversible	Yes

Compatible products								
<b>Brake</b>	1.5 Nm	<b>+L mm</b> 28.2	<b>Gearbox</b>	M	<b>+L mm</b> 85	<b>Gearbox</b>	LWS	<b>+L mm</b> 127
	2.0 Nm	32.4		GB12	110		LIS	108
				MIW	83		PGS71	49 - 99
				MIS	95		PGS80	52 - 102
				LIW	102			
<b>Encoder</b>	Optical	<b>+L mm</b> 9	+	<b>Controller</b>	SC 50/15			
	Magnetic	12			ESCON			
					EPOS			

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