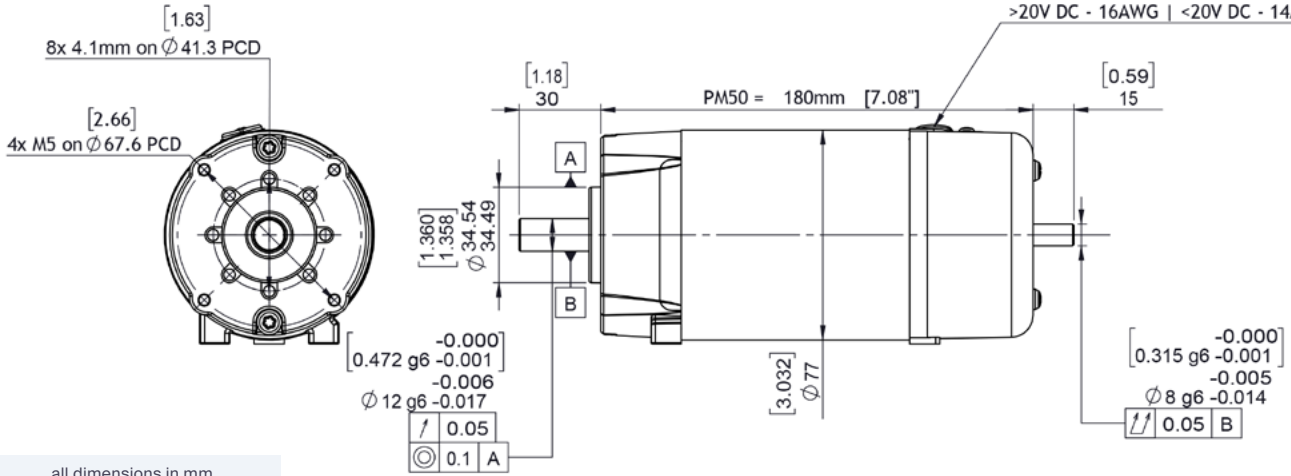


PM50 PMDC motor

Ø76 mm frame // 81 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

		775158	775159	775160	775161	775162	775163
1 Part number		775158	775159	775160	775161	775162	775163
2 Nominal power	W	210	210	210	210	210	210
3 Nominal voltage	V	12	24	40	48	110	220
4 No load speed	rpm	3559	3865	3748	3641	3668	3797
5 No load current	A	2.30	1.30	0.65	0.52	0.27	0.14
6 Nominal speed	rpm	3000	3000	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.67	0.67	0.67	0.67	0.67	0.67
8 Nominal continuous current (S1)	A	22.5	12.3	7.6	6.2	2.5	1.3
9 Max. intermittent torque (S2 - 15 minutes)	Nm	1.17	1.17	1.17	1.17	1.17	1.17
10 Stall current	A	101.0	80.0	51.0	40.4	19.0	8.6
11 Stall torque	Nm	3.3	4.8	4.8	4.7	5.5	4.8
12 Stack length	mm	81	81	81	81	81	81
13 Maximum efficiency	%	74	79	75	75	81	79
14 Terminal resistance - phase to phase	Ω	0.12	0.30	0.78	1.19	5.85	25.50
15 Terminal inductance - phase to phase	mH	-	-	-	-	-	-
16 Speed constant	rpm/V	296	156	88	71	33	17
17 Torque constant	Nm/A	0.336	0.060	0.090	0.120	0.290	0.570
18 Speed torque gradient	rpm/Nm	1079	809	777	777	666	797
19 Rotor inertia	gcm²	4600	4600	4600	4600	4600	4600

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	2.9
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Compatible products

Brake	+L mm	Gearbox	+L mm	Gearbox	+L mm
1.5 Nm	28.2	M	85	LWS	127
2.0 Nm	32.4	GB12	110	LIS	108
		MIW	83	PGS71	49 - 99
		MIS	95	PGS80	52 - 102
		LIW	102		

Encoder	+L mm	Controller
Optical	9	SC 50/15
Magnetic	12	ESCON
		EPOS

+L mm = approximate added length

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