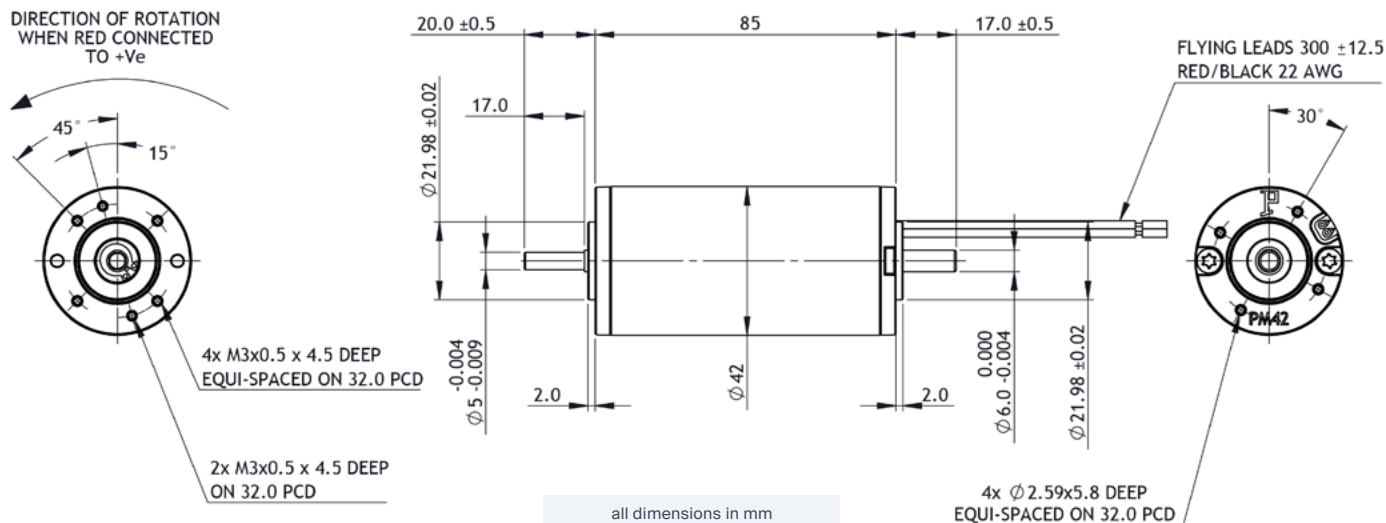


# BRx42-40 PMDC motor

Ø42 mm frame // 34 mm stack

**parvalux**  
by **maxon**



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

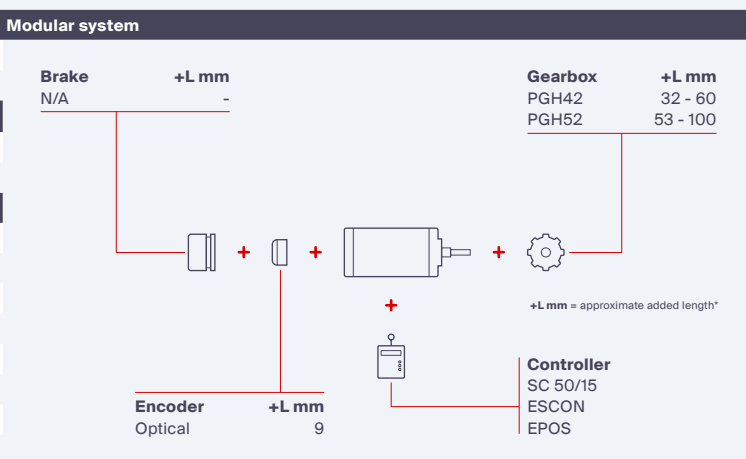
All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found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

Technical data				
1 Part number		781079	781080	781081
2 Nominal power	<b>W</b>	20	20	20
3 Nominal voltage	<b>V</b>	12	24	48
4 No load speed	<b>rpm</b>	4128	4064	4064
5 No load current	<b>A</b>	0.22	0.11	0.05
6 Nominal speed	<b>rpm</b>	3000	3000	3000
7 Nominal continuous torque (S1)	<b>Nm</b>	0.057	0.057	0.057
8 Nominal continuous current (S1)	<b>A</b>	2.16	1.06	0.53
9 Max. intermittent torque (S2 - 15 minutes)	<b>Nm</b>	0.09	0.09	0.09
10 Stall current	<b>A</b>	9.60	4.64	2.30
11 Stall torque	<b>Nm</b>	0.27	0.27	0.27
12 Stack length	<b>mm</b>	34	34	34
13 Maximum efficiency	<b>%</b>	77	77	77
14 Terminal resistance - phase to phase	<b>Ω</b>	1.25	5.17	20.80
15 Terminal inductance - phase to phase	<b>mH</b>	-	-	-
16 Speed constant	<b>rpm/V</b>	340	165	84
17 Torque constant	<b>Nm/A</b>	0.029	0.060	0.120
18 Speed torque gradient	<b>rpm/Nm</b>	15200	15200	15200
19 Rotor inertia	<b>Kgcm<sup>2</sup></b>	1.4 x 10 <sup>-5</sup>	1.4 x 10 <sup>-5</sup>	1.4 x 10 <sup>-5</sup>

Thermal data	
20 Ambient temperature	<b>°C</b> 40

Mechanical data	
21 Radial load [distance from flange]	<b>N [mm]</b> 350 [15]

Other data	
22 Number of poles	2
23 Weight	<b>Kg</b> 0.52
24 IP rating	IP54
25 Enclosure	Enclosed
26 Insulation Class	F
27 Reversible	Yes



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