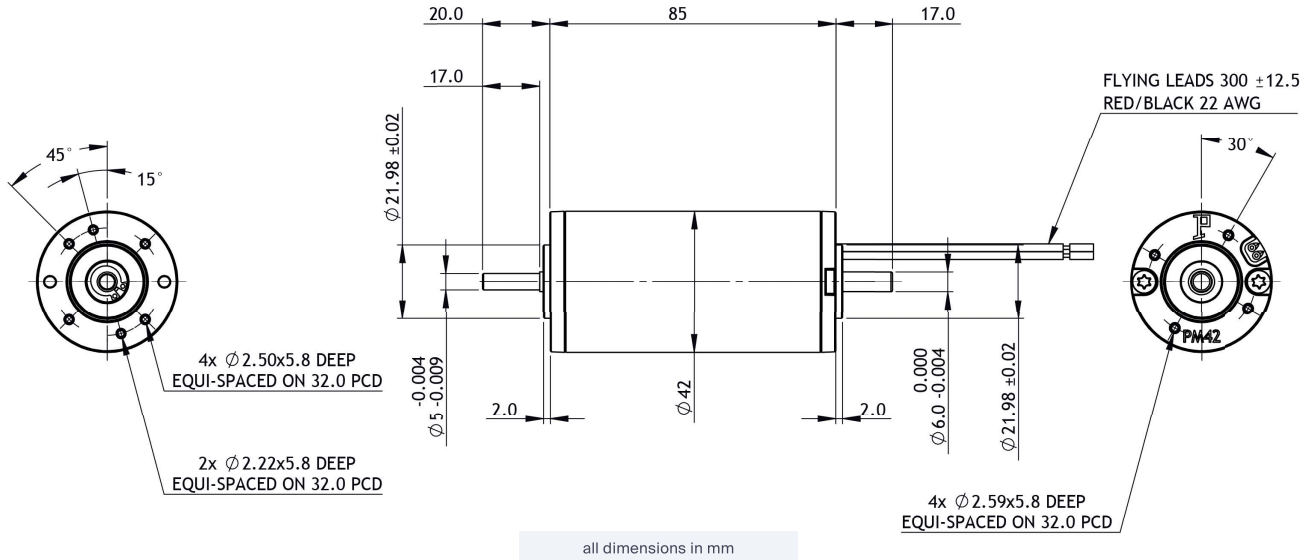




# BRx42-40 PMDC motor

Ø42 mm frame // 34 mm stack

# PARVALUX



Part number key	
Modular	#####
Standard	#####
Special	#####

**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	W	20	20	20
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	4128	4064	4064
5 No load current	A	0.22	0.11	0.05
6 Nominal speed	rpm	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.057	0.057	0.057
8 Nominal continuous current (S1)	A	2.16	1.06	0.53
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.09	0.09	0.09
10 Stall current	A	9.6	4.64	2.3
11 Stall torque	Nm	0.27	0.27	0.27
12 Stack length	mm	34	34	34
13 Maximum efficiency	%	77	77	77
14 Terminal resistance - phase to phase	Ω	1.250	5.170	20.800
15 Terminal inductance - phase to phase	mH	-	-	-
16 Speed constant	rpm/V	340	165	84
17 Torque constant	Nm/A	0.03	0.06	0.12
18 Speed torque gradient	rpm/Nm	15200	15200	15200
19 Rotor inertia	gcm <sup>2</sup>	110	110	110

Thermal data		Modular system	
20 Ambient temperature	°C	40	
<b>Mechanical data</b>			
21 Radial load [distance from flange]	N [mm]	350 [15]	
<b>Other data</b>			
22 Number of poles		2	
23 Weight	Kg	0.5	
24 IP rating		IP54	
25 Enclosure		Enclosed	
26 Insulation Class		F	
27 Reversible		Yes	

**Brake**

N/A

+L mm -

**Gearbox**

PG42 32 - 60

PG52 53 - 100

+L mm = added length

**Encoder**

Optical

+L mm 9

**Controller**

SC 50/15

ESCON

EPOS

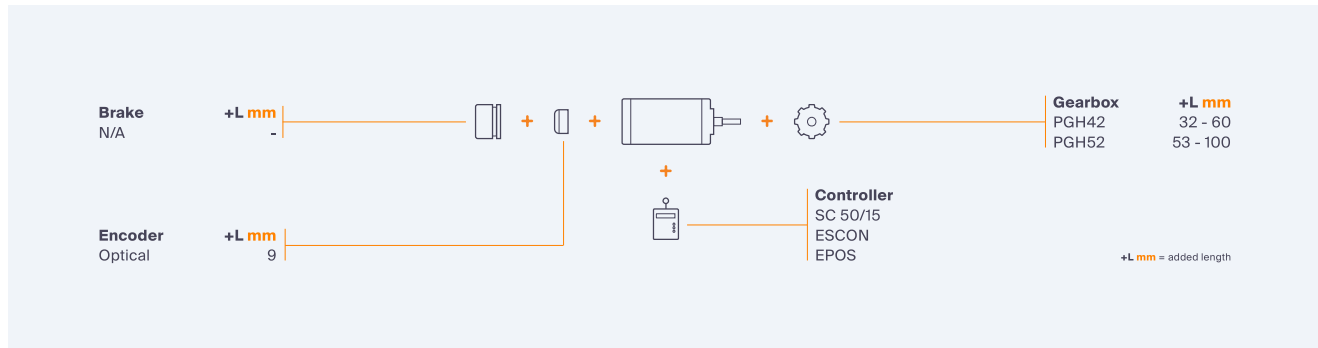
# BRx42 Product Overview

PARVALUX

PMDC motor // Ø42 mm frame

## Compatible products

The BRx42 can be combined with Parvalux encoders, controllers, and gear heads to offer a complete application solution.



PGH42		
1 Gearbox ratio	:1	15 - 1470
2 Output speed <sup>1</sup>	rpm	2 - 200
3 Continuous torque	Nm	Up to 14
4 Intermittent torque	Nm	Up to 21
5 Gearbox efficiency	%	Up to 90

<sup>1</sup> Based on a 3000 rpm input speed



PGH52		
1 Gearbox ratio	:1	4 - 684
2 Output speed <sup>1</sup>	rpm	4 - 750
3 Continuous torque	Nm	Up to 24
4 Intermittent torque	Nm	Up to 36
5 Gearbox efficiency	%	Up to 90

<sup>1</sup> Based on a 3000 rpm input speed