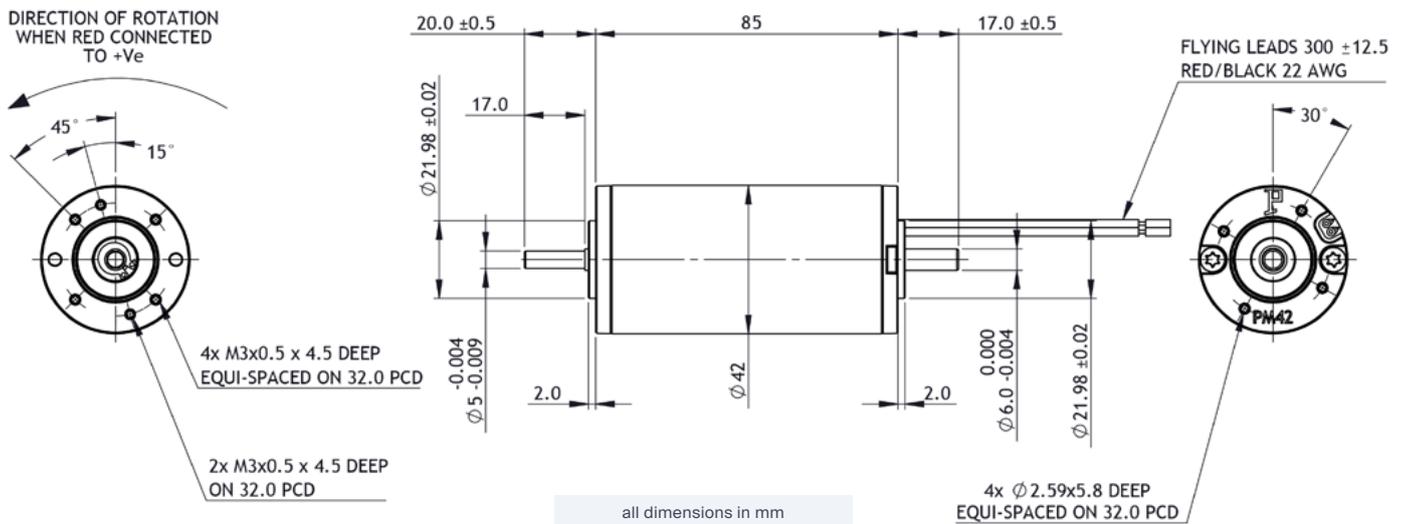


BRx42-40 PMDC motor

Ø42 mm frame // 34 mm stack

parvalux
by **maxon**



Part number key

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

Technical data

1 Part number		781079	781080	781081
2 Nominal power	W	18	18	18
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3925	3931	4054
5 No load current	A	0.20	0.10	0.08
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	2.20	1.06	0.51
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.09	0.09	0.09
10 Stall current	A	8.50	4.79	1.92
11 Stall torque	Nm	0.20	0.26	0.27
12 Stack length	mm	34	34	34
13 Maximum efficiency	%	0.74	0.76	0.85
14 Terminal resistance - phase to phase	Ω	1.51	4.35	17.25
15 Terminal inductance - phase to phase	mH	1.01	4.39	18.29
16 Speed constant	rpm/V	329	164	87.5
17 Torque constant	Nm/A	0.03	0.06	0.12
18 Speed torque gradient	rpm/Nm	17670	14935	18613
19 Rotor inertia	Kgcm²	1.4 x 10 ⁻⁶	1.4 x 10 ⁻⁶	1.4 x 10 ⁻⁶

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	60 [15]
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Other data

22 Number of poles		2
23 Weight	Kg	0.52
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Modular system

Gearbox	+L mm	Brake	+L mm	Controller
PGx42	370 - 81.0	N/A	-	SC 50/15
Encoder	+L mm	Key		
Incr. 5-pin	9.0	Standard combination		
Incr. 10-pin	9.0	Modular combination		
Diff. 10-pin	12.0			

+L mm = approximate added length*

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