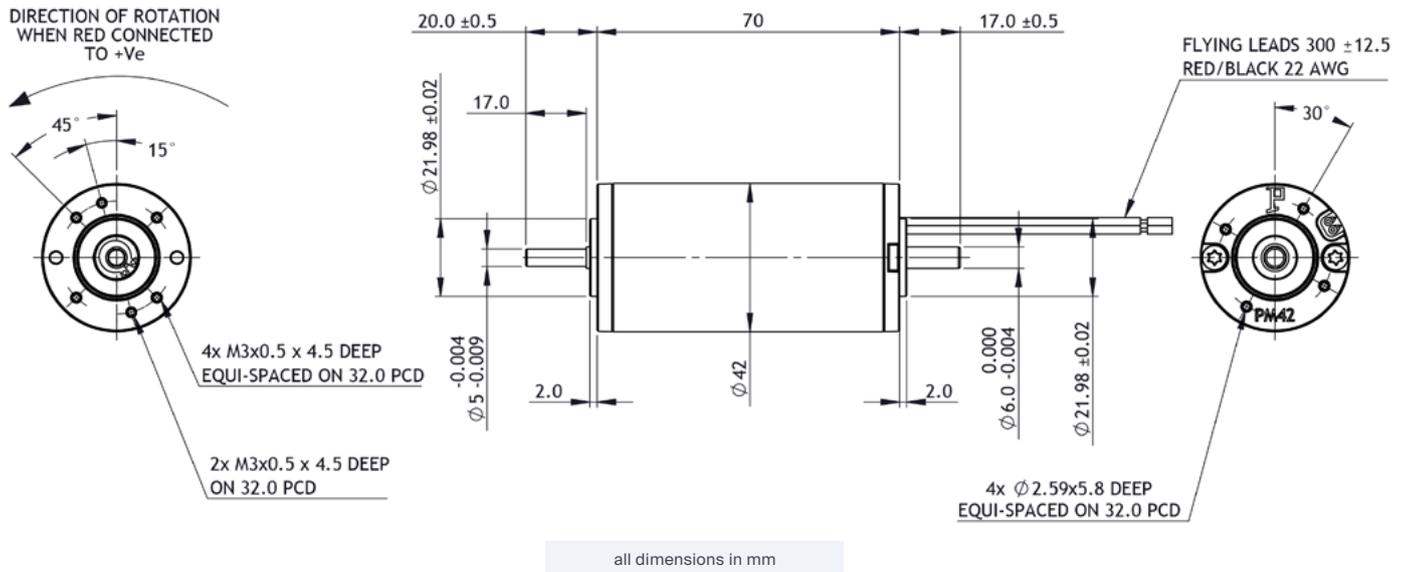


# BRx42-25 PMDC motor

Ø42 mm frame // 19 mm stack

**parvalux**  
by **maxon**



## Part number key

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

## Technical data

1 Part number		781076	781077
2 Nominal power	<b>W</b>	12	12
3 Nominal voltage	<b>V</b>	12	24
4 No load speed	<b>rpm</b>	4091	4006
5 No load current	<b>A</b>	0.280	0.150
6 Nominal speed	<b>rpm</b>	3000	3000
7 Nominal continuous torque (S1)	<b>Nm</b>	0.038	0.038
8 Nominal continuous current (S1)	<b>A</b>	1.60	0.78
9 Max. intermittent torque (S2 - 15 minutes)	<b>Nm</b>	0.06	0.06
10 Stall current	<b>A</b>	5.30	2.78
11 Stall torque	<b>Nm</b>	0.13	0.14
12 Stack length	<b>mm</b>	19	19
13 Maximum efficiency	<b>%</b>	71	71
14 Terminal resistance	<b>Ω</b>	2.09	7.02
15 Terminal inductance	<b>mH</b>	1.555	7.258
16 Speed constant	<b>rpm/V</b>	354.6	175.1
17 Torque constant	<b>Nm/A</b>	0.03	0.05
18 Speed torque gradient	<b>rpm/Nm</b>	32623	29121
19 Rotor inertia	<b>Kgcm<sup>2</sup></b>	1.0 x 10 <sup>-5</sup>	1.0 x 10 <sup>-5</sup>

## Thermal data

20 Ambient temperature	<b>°C</b>	40
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## Mechanical data

21 Radial load [distance from flange]	<b>N [mm]</b>	60 [15]
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## Other data

22 Number of poles		2
23 Weight	<b>Kg</b>	0.39
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

## Modular system

<b>Gearbox</b>	<b>+L mm</b>	<b>Brake</b>	<b>+L mm</b>	<b>Controller</b>
PGx42	370 - 81.0	N/A	-	SC 50/15
<b>Encoder</b>	<b>+L mm</b>	<b>Key</b>		
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