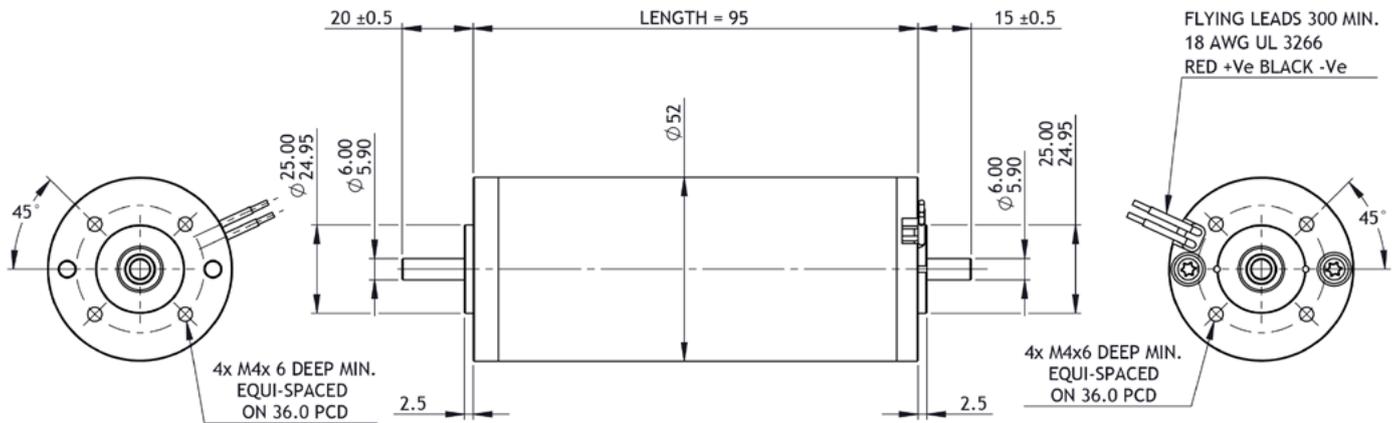


# BRx52-30 PMDC motor

Ø52 mm frame // 30 mm stack

**parvalux**  
by **maxon**



all dimensions in mm

## Part number key

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

## Technical data

1 Part number		787108	787109	787110
2 Nominal power	<b>W</b>	28	28	28
3 Nominal voltage	<b>V</b>	12	24	48
4 No load speed	<b>rpm</b>	3853	3561	3547
5 No load current	<b>A</b>	0.80	0.51	0.20
6 Nominal speed	<b>rpm</b>	3000	3000	3000
7 Nominal continuous torque (S1)	<b>Nm</b>	0.09	0.09	0.09
8 Nominal continuous current (S1)	<b>A</b>	3.4	1.7	0.9
9 Max. intermittent torque (S2 - 15 minutes)	<b>Nm</b>	0.15	0.15	0.15
10 Stall current	<b>A</b>	16.2	9.8	5.0
11 Stall torque	<b>Nm</b>	0.43	0.50	0.56
12 Stack length	<b>mm</b>	30	30	30
13 Maximum efficiency	<b>%</b>	76	78	71
14 Terminal resistance - phase to phase	<b>Ω</b>	0.43	1.93	6.69
15 Terminal inductance - phase to phase	<b>mH</b>	0.675	2.713	11.390
16 Speed constant	<b>rpm/V</b>	332.4	154.9	76.7
17 Torque constant	<b>Nm/A</b>	0.03	0.060	0.120
18 Speed torque gradient	<b>rpm/Nm</b>	7585	7250	6692
19 Rotor inertia	<b>Kgcm<sup>2</sup></b>	2.33 x 10 <sup>-5</sup>	2.33 x 10 <sup>-5</sup>	2.33 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>	90 [15]
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## Other data

22 Number of poles		2
23 Weight	<b>Kg</b>	0.85
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>
N/A	-	N/A	-	SC 50/15

<b>Encoder</b>	<b>+L mm</b>
Incremental	9

## Compatible products key

Product name	Standard combination
Product name	Modular combination

+L mm = approximate added length\*

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