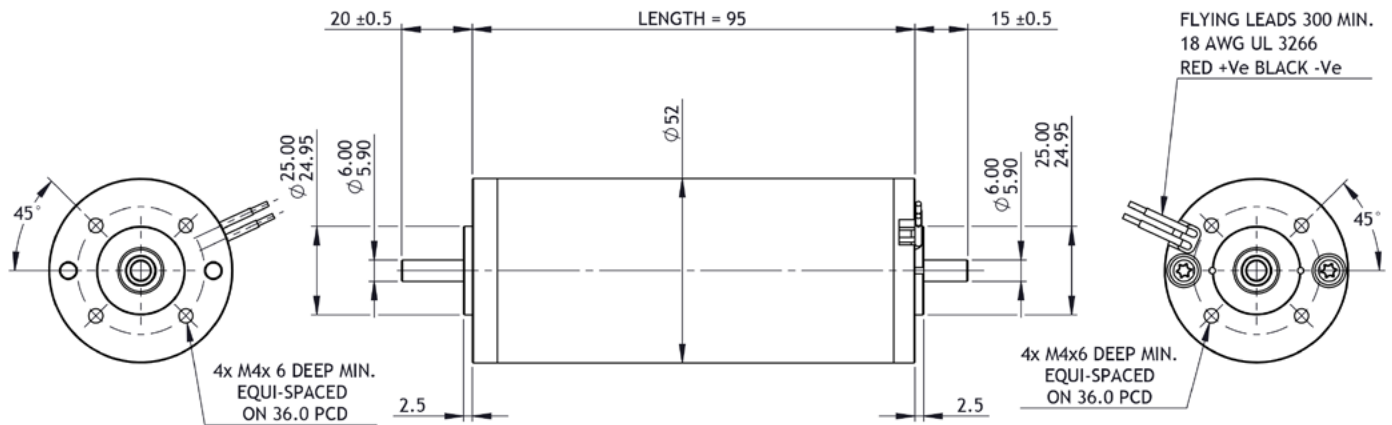


BRx52-30 PMDC motor

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	W	28	28	28
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3853	3561	3547
5 No load current	A	0.80	0.51	0.20
6 Nominal speed	rpm	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.09	0.09	0.09
8 Nominal continuous current (S1)	A	3.4	1.7	0.9
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.15	0.15	0.15
10 Stall current	A	16.2	9.8	5.0
11 Stall torque	Nm	0.43	0.50	0.56
12 Stack length	mm	30	30	30
13 Maximum efficiency	%	76	78	71
14 Terminal resistance - phase to phase	Ω	0.43	1.93	6.69
15 Terminal inductance - phase to phase	mH	0.675	2.713	11.390
16 Speed constant	rpm/V	332.4	154.9	76.7
17 Torque constant	Nm/A	0.03	0.060	0.120
18 Speed torque gradient	rpm/Nm	7585	7250	6692
19 Rotor inertia	Kgcm²	2.33 x 10 ⁻⁵	2.33 x 10 ⁻⁵	2.33 x 10 ⁻⁵

Thermal data

20 Ambient temperature	°C	40
------------------------	-----------	----

Mechanical data

21 Radial load [distance from flange]	N [mm]	90 [15]
---------------------------------------	---------------	---------

Other data

22 Number of poles		2
23 Weight	Kg	0.85
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Modular system

Gearbox	+L mm	Brake	+L mm	Controller
GB80	80.0	N/A	-	SC 50/15
PGx52	50.0 - 85.0			
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