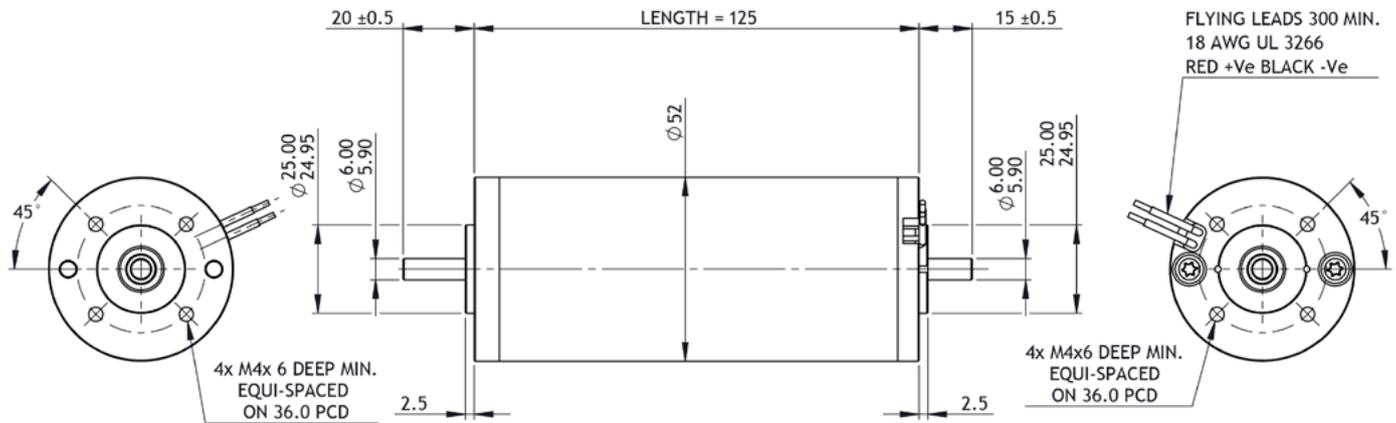


BRx52-58 PMDC motor

Ø52 mm frame // 58 mm stack

parvalux
by **maxon**



all dimensions in mm

Part number key

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

Technical data

		787111	787113	787114
1 Part number		787111	787113	787114
2 Nominal power	W	48	69	69
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3513	3840	3838
5 No load current	A	0.60	0.40	0.16
6 Nominal speed	rpm	2850	3000	3000
7 Nominal continuous torque (S1)	Nm	0.16	0.22	0.22
8 Nominal continuous current (S1)	A	5.5	3.9	2.2
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.35	0.35	0.35
10 Stall current	A	23.6	19.0	9.5
11 Stall torque	Nm	0.7	1.1	1.0
12 Stack length	mm	58	58	58
13 Maximum efficiency	%	73	80	80
14 Terminal resistance - phase to phase	Ω	0.570	0.937	3.420
15 Terminal inductance - phase to phase	mH	0.385	1.272	5.217
16 Speed constant	rpm/V	300.4	161.8	80.8
17 Torque constant	Nm/A	0.031	0.056	0.100
18 Speed torque gradient	rpm/Nm	5166	3805	4411
19 Rotor inertia	Kgcm²	5.7 x 10 ⁻⁶	5.7 x 10 ⁻⁶	5.7 x 10 ⁻⁶

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

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

22 Number of poles		2
23 Weight	Kg	1.16
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