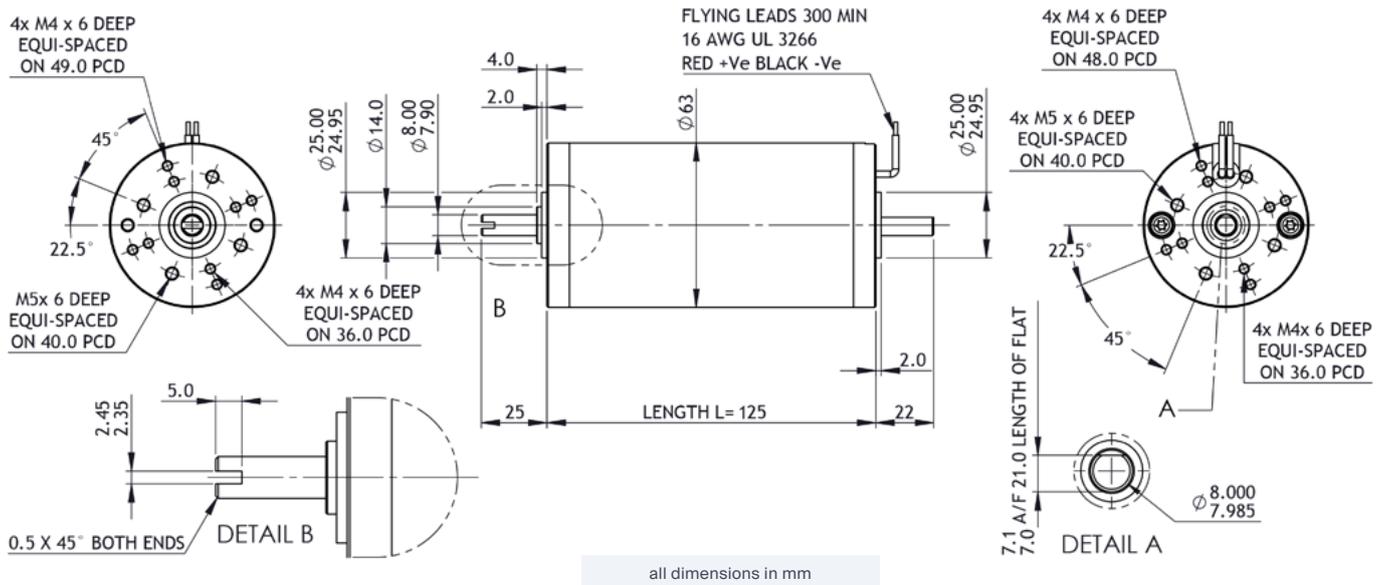


BRx63-55 PMDC motor

Ø63 mm frame // 55 mm stack

parvalux
by **maxon**



Part number key

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

Technical data

1 Part number		781088	781089	781090
2 Nominal power	W	79	85	85
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3665	3617	3613
5 No load current	A	0.70	0.31	0.18
6 Nominal speed	rpm	2800	3000	3000
7 Nominal continuous torque (S1)	Nm	0.27	0.27	0.27
8 Nominal continuous current (S1)	A	9.2	4.7	2.4
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.45	0.45	0.45
10 Stall current	A	38.3	27.9	19.2
11 Stall torque	Nm	1.16	1.65	2.20
12 Stack length	mm	55	55	55
13 Maximum efficiency	%	76	81	85
14 Terminal resistance - phase to phase	Ω	0.745	0.593	2.300
15 Terminal inductance - phase to phase	mH	0.198	0.92	3.60
16 Speed constant	rpm/V	303.1	150.9	75.4
17 Torque constant	Nm/A	0.03	0.06	0.10
18 Speed torque gradient	rpm/Nm	3181	2336	1741
19 Rotor inertia	Kgcm²	9.3 x 10 ⁻⁶	9.3 x 10 ⁻⁶	9.3 x 10 ⁻⁶

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	150 [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
GB28	88.0	1.5 Nm	28.2	SC 50/15
GB80	80.0			
PGx52	500 - 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