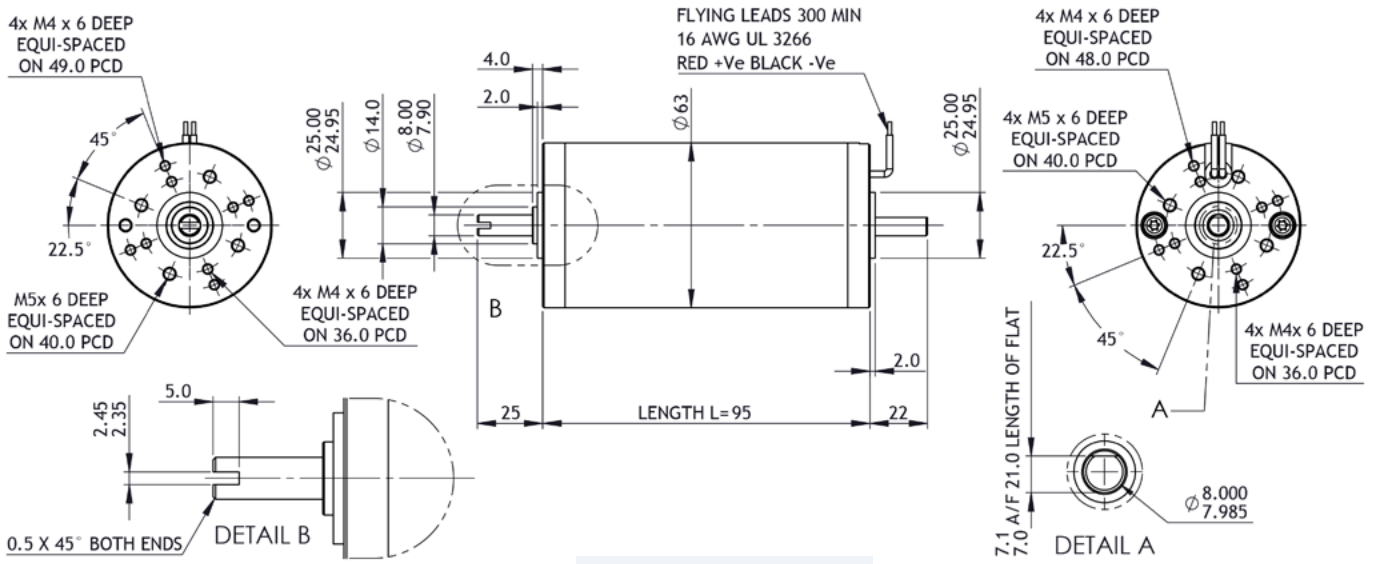
BRx63-25 PMDC motor

Ø63 mm frame // 25 mm stack

parvalux by maxon



all dimensions in mm

Part number key	
Modular	######
Standard	######
Calculated data	######

	Technical data				
1	Part number		781083	781084	781085
2	Nominal power	W	47	57	57
3	Nominal voltage	V	12	24	48
4	No load speed	rpm	3488	3591	3621
5	No load current	A	0.6	0.30	0.15
6	Nominal speed	rpm	2500	3000	3000
7	Nominal continuous torque (S1)	Nm	0.18	0.18	0.18
8	Nominal continuous current (S1)	A	6.0	3.0	1.6
9	Max. intermittent torque (S2 - 15 minutes)	Nm	0.30	0.30	0.30
10	Stall current	A	19.4	11.8	6.9
11	Stall torque	Nm	0.6	0.7	0.8
12	Stack length	mm	25	25	25
13	Maximum efficiency	%	67	84	84
14	Terminal resistance - phase to phase	Ω	1.260	1.649	5.130
15	Terminal inductance - phase to phase	mH	0.5016	2.204	8.520
16	Speed constant	rpm/V	298.1	151.7	76.5
17	Torque constant	Nm/A	0.03	0.06	0.12
18	Speed torque gradient	rpm/Nm	6269	5656	5037
19	Rotor inertia	Kgcm²	7.4 x 10^{-5}	7.4 x 10^{-5}	7.4 x 10^{-5}

	Thermal data		
20	Ambient temperature	°C	40

	Mechanical data		
21	Radial load [distance from flange]	N [mm]	150 [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
GB28	88.0
GB80	80.0
PGx52	50.0 - 85.0

Brake	+L mm
1.5 Nm	28.2

Encoder	+L mm
Incr. 5-pin	9.0
Incr. 10-pin	9.0
Diff. 10-pin	12.0

Controller
SC 50/15

Key
Standard combination
Modular combination

+L mm = approximate added length*

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

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additional information available on request