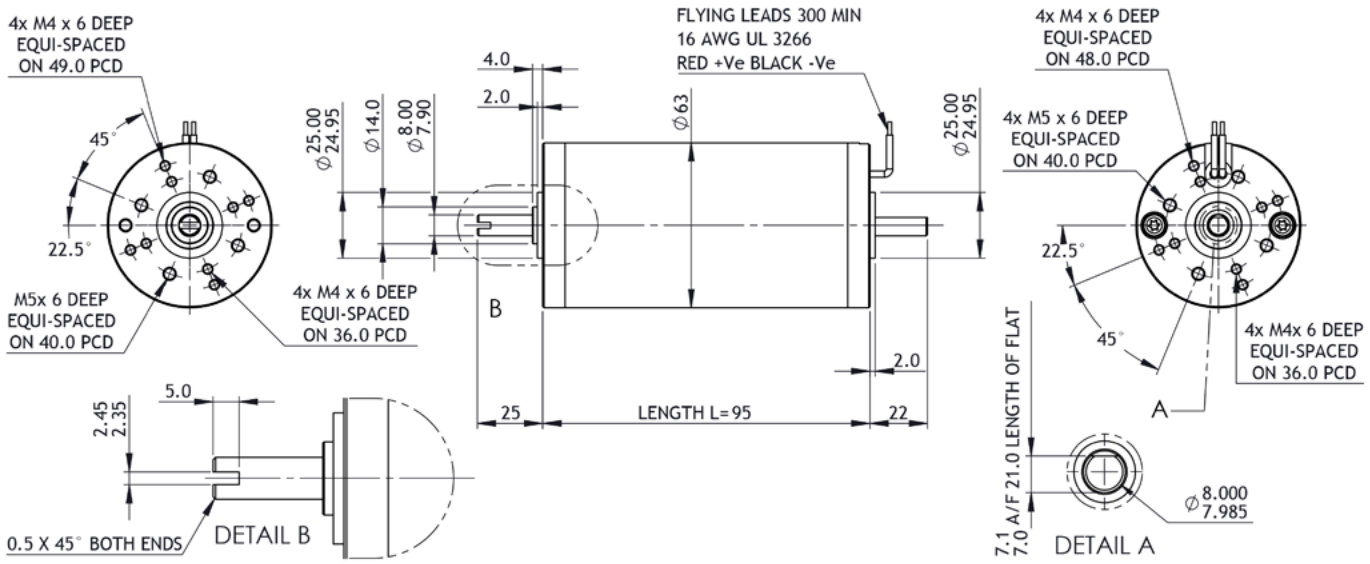
BRx63-25 PMDC motor

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
N/A	-

Brake	+L mm
1.5 Nm	28.2

Controller
SC 50/15

Encoder	+L mm
Incremental	9

+L mm = approximate added length*

Compatible products key	
Product name	Standard combination
Product name	Modular combination

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