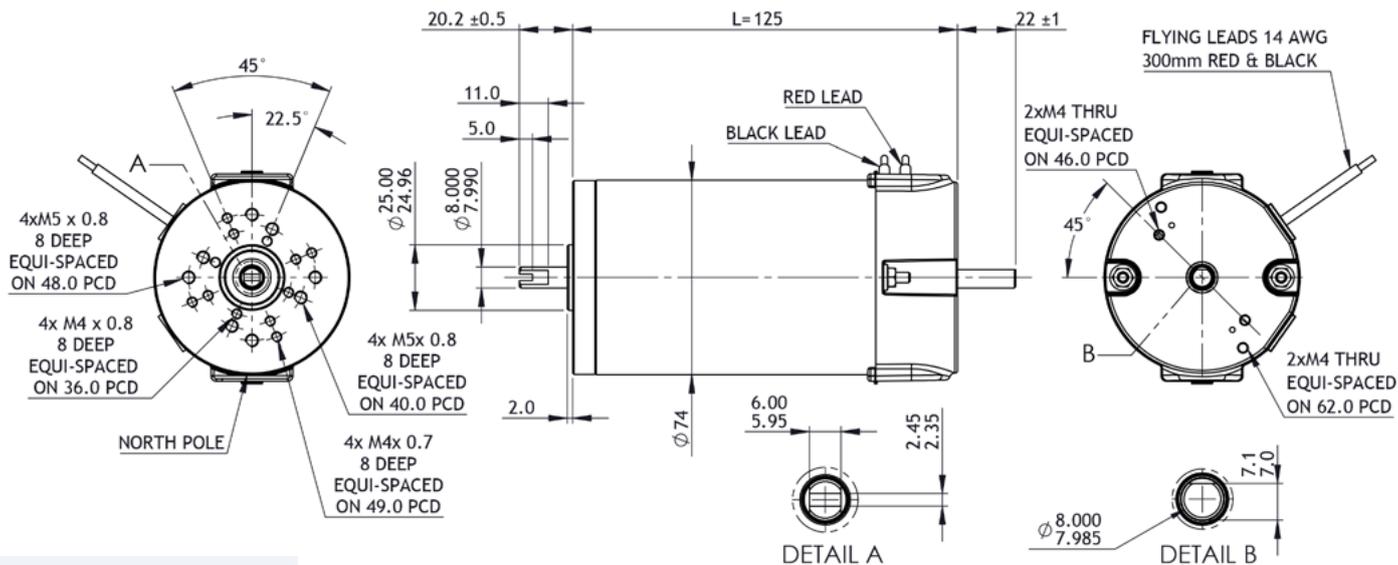


BRx70-40 PMDC motor

Ø70 mm frame // 40 mm stack

parvalux

by maxon



all dimensions in mm

Part number key

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

Technical data

1 Part number		781092	781093	781094
2 Nominal power	W	79	79	79
3 Nominal voltage	V	12	24	48
4 No load speed	rpm	3340	3433	3167
5 No load current	A	1.50	0.80	0.28
6 Nominal speed	rpm	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.25	0.25	0.25
8 Nominal continuous current (S1)	A	9.2	4.7	2.1
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.42	0.42	0.42
10 Stall current	A	59.2	33.5	18.7
11 Stall torque	Nm	1.8	2.1	2.4
12 Stack length	mm	40	40	40
13 Maximum efficiency	%	71	78	78
14 Terminal resistance - phase to phase	Ω	0.13	0.44	1.86
15 Terminal inductance - phase to phase	mH	0.253	1.235	5.060
16 Speed constant	rpm/V	280.1	145.0	66.6
17 Torque constant	Nm/A	0.03	0.06	0.13
18 Speed torque gradient	rpm/Nm	1944	1784	1415
19 Rotor inertia	Kgcm²	1.83 x 10 ⁻⁴	1.83 x 10 ⁻⁴	1.83 x 10 ⁻⁴

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	200 [15]
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Other data

22 Number of poles		2
23 Weight	Kg	1.85
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Modular system

Gearbox	+L mm	Brake	+L mm	Controller
GB12	110.0	1.5 Nm	28.2	SC 50/15
GB80	80.0			
PGx70	58.0 - 80.0			
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