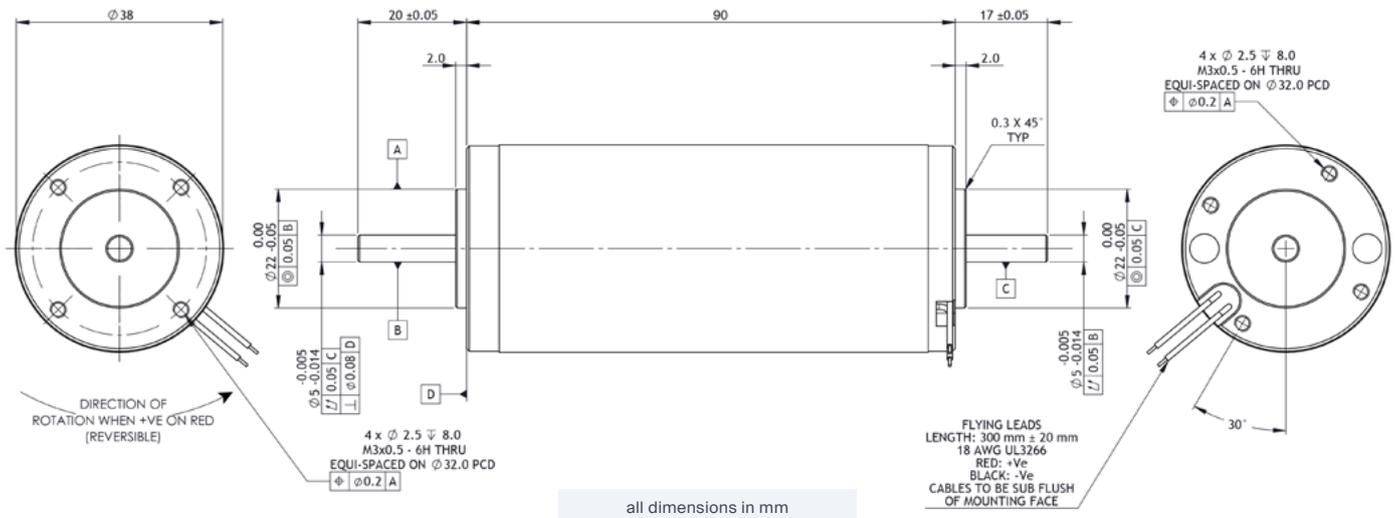


RE38-40 PMDC rare-earth magnet motor

Ø38 mm frame // 40 mm stack

parvalux
by **maxon**



Part number key

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

Technical data

1 Part number		857664	857665
2 Nominal power	W	40	40
3 Nominal voltage	V	24	48
4 No load speed	rpm	4065	3856
5 No load current	A	0.23	0.12
6 Nominal speed	rpm	3200	3200
7 Nominal continuous torque (S1)	Nm	0.12	0.12
8 Nominal continuous current (S1)	A	2.20	1.11
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.18	0.18
10 Stall current	A	10.7	5.9
11 Stall torque	Nm	0.63	0.68
12 Stack length	mm	40	40
13 Maximum efficiency	%	0.77	0.77
14 Terminal resistance - phase to phase	Ω	1.72	6.86
15 Terminal inductance - phase to phase	mH	1.616	6.919
16 Speed constant	rpm/V	170.7	81.6
17 Torque constant	Nm/A	0.06	0.12
18 Speed torque gradient	rpm/Nm	6533	5830
19 Rotor inertia	Kgcm ²	1.3×10^{-5}	1.3×10^{-5}

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	60 [20]
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Other data

22 Number of poles		2
23 Weight	Kg	0.40
24 IP rating		IP50
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Modular system

Gearbox	+L mm	Brake	+L mm	Controller
PGx42	370 - 81.0	N/A	-	SC 50/15
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