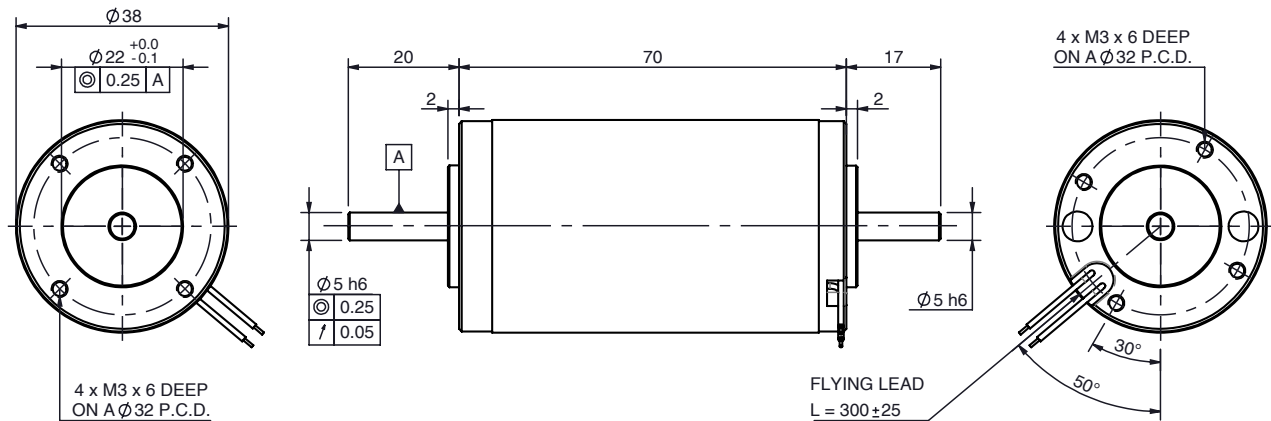


RE38-25

PMDC motor

Ø38 mm frame // 25 mm stack

parvaluxby **maxon**

all dimensions in mm

Part number key

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

Please see our customisation options page for details on the modifications available on our products.
Advice and guidance on these options are available from your local sales engineer.

Technical data

1 Part number		857662	857663
2 Nominal power	W	24	24
3 Nominal voltage	V	24	48
4 No load speed	rpm	4090	4175
5 No load current	A	0.2	0.1
6 Nominal speed	rpm	3250	3250
7 Nominal continuous torque (S1)	Nm	0.07	0.07
8 Nominal continuous current (S1)	A	1.37	0.70
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.11	0.11
10 Stall current	A	764	3.83
11 Stall torque	Nm	0.41	0.41
12 Stack length	mm	25	25
13 Maximum efficiency	%	0.78	0.77
14 Terminal resistance	Ω	2.53	9.91
15 Terminal inductance	mH	2.29	9.15
16 Speed constant	rpm/V	173.6	87.9
17 Torque constant	Nm/A	0.05	0.11
18 Speed torque gradient	rpm/Nm	10197	10541
19 Rotor inertia	gcm ²	9.5 x 10 ⁻⁶	9.5 x 10 ⁻⁶

Thermal data

20 Ambient temperature	°C	40
------------------------	----	----

Mechanical data

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

Other data

22 Number of poles		2
23 Weight	Kg	0.30
24 IP rating		IP50
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Compatible products

Gearbox	Page #	Brake	Page #	Controller	Page #
PGx42	74	N/A	-	SC 50/15	82
GB56	69			EPOS	265
				ESCON	274
		Encoder	Page #		
		Incr. 5-pin	78		
		Incr. 10-pin	78		
		Diff. 10-pin	79		

Key

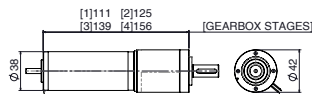
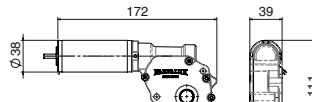
Standard combination

Modular combination

RE38-25 combinations

Quickview - combination drawing and technical data

parvalux
by **maxon**

Combination drawing		Technical data						
RE38-25-PG42		Gear material ¹		Bronze	Bronze	Bronze	Bronze	Bronze
		Gear ratio [stages] ²	:1	4.3 [1]	19 [2]	66 [3]	150 [4]	353 [4]
		Speed	rpm	755.8	171.1	49.2	21.7	9.2
		Nominal torque	Nm	0.3	1.1	3.3	6.7	11.3
		Intermittent torque	Nm	0.4	1.7	5.2	10.6	16.9
RE38-25-GB56		Gear material ¹		Comp.	Comp.	Comp.	Comp.	Comp.
		Gear ratio [stages] ²	:1	4	30	70	4	30
		Speed	rpm	108.3	81.3	67.7	54.2	46.4
		Nominal torque	Nm	1.2	1.5	1.7	1.8	1.8
		Intermittent torque	Nm	1.9	2.4	2.6	2.8	2.8

Key

Standard combination / standard gear ratio

Modular combination / modular gear ratio

Notes

¹ Comp. = Composite gears

² Full gear ratio options displayed on individual gearbox datasheets

- Technical data displayed above calculated based on **RE38-25 48V 3250 rpm** motor. Intermittent torque displayed based on S2 - 15 minute duty cycle.
- Simplified drawings displayed above show overall envelope size of the combination. Please see individual motor and gearbox datasheets for detailed technical drawings.