PM8 PMDC motor

Ø56 mm frame // 24 mm stack

parvalux
by maxon

4x M5 on Ø 41.3 PCD

3x Mounting Feet
M4 x 10 DEEP

25   PM8 = 97mm   15

FLYING LEADS 300mm

PM7/8/9
(47/60/73)

Ø 8 g6 -0.005 / -0.014

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 contact.

Technical data

1	Part number		775295	775296	775297	775298	775299	775300
2	Nominal power	W	25	25	25	25	25	25
3	Nominal voltage	V	12	24	40	48	110	220
4	No load speed	rpm	4317	3812	4099	3936	3849	4229
5	No load current	A	0.60	0.20	0.13	0.11	0.05	0.03
6	Nominal speed	rpm	3000	3000	3000	3000	3000	3000
7	Nominal continuous torque (S1)	Nm	0.078	0.078	0.078	0.078	0.078	0.078
8	Nominal continuous current (S1)	A	3.60	1.90	1.03	0.76	0.34	0.18
9	Max. intermittent torque (S2 - 15 minutes)	Nm	0.11	0.11	0.11	0.11	0.11	0.11
10	Stall current	A	19.0	7.9	5.4	4.1	1.3	0.8
11	Stall torque	Nm	0.5	0.5	0.5	0.4	0.3	0.4
12	Stack length	mm	24	24	24	24	24	24
13	Maximum efficiency	%	68	64	65	71	62	70
14	Terminal resistance	Ω	0.5	2.4	4.7	11.7	72.0	171.0
15	Terminal inductance	mH	-	-	-	-	-	-
16	Speed constant	rpm/V	353	151	97	78	34	18
17	Torque constant	Nm/A	0.026	0.060	0.090	0.120	0.260	0.520
18	Speed torque gradient	rpm/Nm	9131	8230	4593	9980	13485	10916
19	Rotor inertia	gcm²	523	523	523	523	523	523

Thermal data

20	Ambient temperature	°C	40

Mechanical data

21	Radial load [distance from flange]	N [mm]	110 [15]

Other data

22	Number of poles		2
23	Weight	Kg	0.6
24	IP rating		IP54
25	Enclosure		Enclosed
26	Insulation Class		F
27	Reversible		Yes

Compatible products

Gearbox	+L mm
S Box	59
SWS	110
SIW	82
SIS	72
GB28	85
GB36	166
GB56	103
GB58	50

Brake	+L mm
1.5 Nm	28.2

Encoder	+L mm
Optical	9
Magnetic	12

Controller
SC 50/15
ESCON
EPOS

+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