



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

		775282	775283	775284	775285
1 Part number		775282	775283	775284	775285
2 Nominal power	W	15	15	15	15
3 Nominal voltage	V	12	24	40	48
4 No load speed	rpm	3743	4057	4194	4154
5 No load current	A	0.40	0.28	0.13	0.11
6 Nominal speed	rpm	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.05	0.05	0.05	0.05
8 Nominal continuous current (S1)	A	2.11	1.39	0.75	0.62
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.08	0.08	0.08	0.08
10 Stall current	A	10.0	4.9	2.4	2.0
11 Stall torque	Nm	0.3	0.2	0.2	0.2
12 Stack length	mm	12	12	12	12
13 Maximum efficiency	%	61	47	52	52
14 Terminal resistance	Ω	1.0	4.9	16.7	24.2
15 Terminal inductance	mH	-	-	-	-
16 Speed constant	rpm/V	319	172	112	93
17 Torque constant	Nm/A	0.028	0.043	0.078	0.094
18 Speed torque gradient	rpm/Nm	13959	20491	23482	23483
19 Rotor inertia	gcm²	361	361	361	361

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

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

22 Number of poles		2
23 Weight	Kg	0.5
24 IP rating		IP54
25 Enclosure		Enclosed
26 Insulation Class		F
27 Reversible		Yes

Compatible products

Gearbox	Page #	Brake	Page #	Controller	Page #
S Box	216	N/A	-	SC 50/15	262
GB28	218			EPOS	265
GB58	219			ESCON	274
SWS	220	Encoder	Page #		
PGx42	248	Incr. 5-pin	254		
GB36	231	Incr. 10-pin	254		
		Diff. 10-pin	255		

Key

- Standard combination
- Modular combination**

PM7 combinations

Quickview - combination drawing and technical data

parvalux
by **maxon**

Combination drawing		Technical data							
PM7-S Box		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	4	30	70	4	30	70
		Speed	rpm	750.0	100.0	42.9	750.0	100.0	42.9
		Nominal torque	Nm	0.2	1.0	1.4	0.1	0.9	1.2
		Intermittent torque	Nm	0.3	1.6	2.2	0.2	1.4	2.0
PM7-GB28		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	-	-	-	15	30	60
		Speed	rpm	-	-	-	200.0	100.0	50.0
		Nominal torque	Nm	-	-	-	0.6	1.0	1.4
		Intermittent torque	Nm	-	-	-	0.9	1.6	2.2
PM7-GB58		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	4	15	25	-	-	-
		Speed	rpm	750.0	200.0	120.0	-	-	-
		Nominal torque	Nm	0.2	0.6	0.9	-	-	-
		Intermittent torque	Nm	0.3	0.9	1.4	-	-	-
PM7-SWS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	36	207	1364	-	-	-
		Speed	rpm	83.3	14.5	2.2	-	-	-
		Nominal torque	Nm	1.3	7.3	11.0	-	-	-
		Intermittent torque	Nm	2.0	11.0	11.0	-	-	-
PM7-PGX42		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio [stages] ²	:1	-	-	-	3.5 [1]	353 [4]	936 [4]
		Speed	rpm	-	-	-	857.1	8.5	3.2
		Nominal torque	Nm	-	-	-	0.2	11.3	11.3
		Intermittent torque	Nm	-	-	-	0.3	16.9	16.9
PM7-GB36		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	24	120	1400	-	-	-
		Speed	rpm	125.0	25.0	2.1	-	-	-
		Nominal torque	Nm	0.9	4.4	37.8	-	-	-
		Intermittent torque	Nm	1.5	7.1	45.0	-	-	-

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 **PM7 48V 3000 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.