



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		775328	775329	775330	775331	775332	775333
2 Nominal power	W	101	101	101	101	101	101
3 Nominal voltage	V	12	24	40	48	110	220
4 No load speed	rpm	4004	4012	3804	3844	3627	3957
5 No load current	A	0.60	0.40	0.28	0.23	0.12	0.05
6 Nominal speed	rpm	3000	3000	3000	3000	3000	3000
7 Nominal continuous torque (S1)	Nm	0.32	0.32	0.32	0.32	0.32	0.32
8 Nominal continuous current (S1)	A	12.3	5.6	3.3	1.2	1.2	0.7
9 Max. intermittent torque (S2 - 15 minutes)	Nm	0.53	0.53	0.53	0.53	0.53	0.53
10 Stall current	A	470	220	170	140	6.4	2.5
11 Stall torque	Nm	1.3	1.3	1.8	1.8	1.9	1.3
12 Stack length	mm	44	44	44	44	44	44
13 Maximum efficiency	%	76	81	82	82	80	74
14 Terminal resistance	Ω	0.1	0.7	2.4	1.2	17.2	50.0
15 Terminal inductance	mH	-	-	-	-	-	-
16 Speed constant	rpm/V	321	162	93	77	33	18
17 Torque constant	Nm/A	0.03	0.06	0.10	0.12	0.30	0.52
18 Speed torque gradient	rpm/Nm	3149	3061	2142	2165	1914	3051
19 Rotor inertia	gcm²	1260	1260	1260	1260	1260	1260

Thermal data

20 Ambient temperature	°C	40
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Mechanical data

21 Radial load [distance from flange]	N [mm]	150 [15]
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Other data

22 Number of poles		2
23 Weight	Kg	1.6
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	1.5 Nm	258	SC 50/15	262
GB28	218	2.0 Nm	259	EPOS	265
GB58	219	Power-On	261	ESCON	274
M Box	222				
GB80	224	Encoder	Page #		
MWS	230	Incr. 5-pin	254		
GB36	231	Incr. 10-pin	254		
LIW	242	Diff. 10-pin	255		
PGx52	249	Magnetic	256		
LIS	244			Key	
LWS	236			Standard combination	
				Modular combination	

PM11 combinations

Quickview - combination drawing and technical data

parvalux
by **maxon**

Combination drawing		Technical data							
PM11-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	1.0	3.0	2.0	0.9	4.5	3.0
		Intermittent torque	Nm	1.7	4.8	3.2	1.5	7.2	4.8
PM11-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	-	-	-	3.6	5.0	5.0
		Intermittent torque	Nm	-	-	-	6.0	8.0	8.0
PM11-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	1.1	3.6	4.0	-	-	-
		Intermittent torque	Nm	1.8	6.0	8.0	-	-	-
PM11-M-Box		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	4	30	72	4	30	72
		Speed	rpm	750.0	100.0	41.7	750.0	100.0	41.7
		Nominal torque	Nm	1.1	6.7	5.0	0.9	5.9	8.0
		Intermittent torque	Nm	1.8	11.1	8.0	1.6	9.7	12.0
PM11-GB80		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	4	30	72	-	-	-
		Speed	rpm	750.0	100.0	41.7	-	-	-
		Nominal torque	Nm	1.1	6.7	5.0	-	-	-
		Intermittent torque	Nm	1.8	11.1	8.0	-	-	-
PM11-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	5.8	22.0	45.0	-	-	-
		Intermittent torque	Nm	9.0	22.0	45.0	-	-	-
PM11-LW		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	36	400	1200	36	400	1200
		Speed	rpm	83.3	7.5	2.5	83.3	7.5	2.5
		Nominal torque	Nm	8.5	28.0	28.0	8.5	45.0	45.0
		Intermittent torque	Nm	14.1	28.0	28.0	14.1	45.0	45.0
PM11-PGxS2		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio [stages] ²	:1	-	-	-	3.9 [1]	44 [2]	172 [3]
		Speed	rpm	-	-	-	769.2	68.2	17.4
		Nominal torque	Nm	-	-	-	1.2	13.0	30.0
		Intermittent torque	Nm	-	-	-	2.0	21.5	45.0
PM11-LS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	6	50	115	-	-	-
		Speed	rpm	500.0	60.0	26.1	-	-	-
		Nominal torque	Nm	1.5	12.3	28.3	-	-	-
		Intermittent torque	Nm	2.4	20.4	46.9	-	-	-
PM11-LWS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	-	-	-	48	672	3450
		Speed	rpm	-	-	-	62.5	4.5	0.9
		Nominal torque	Nm	-	-	-	10.4	100.0	100.0
		Intermittent torque	Nm	-	-	-	17.3	100.0	100.0

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 **PM10 220V 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.

→ *PM11-GB36 will provide the same technical data as the PM11-MWS. Please see individual motor and gearbox datasheets for detailed technical drawings.