

PBL70-80 combinations

Quickview - combination drawing and technical data

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by **maxon**

Combination drawing		Technical data							
PBL70-80-GB80		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	15	30	60	-	-	-
		Speed	rpm	300	150	75	-	-	-
		Nominal torque	Nm	8.0	8.0	6.0	-	-	-
		Intermittent torque	Nm	13.0	13.0	10.0	-	-	-
PBL70-80-L-Box		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	5	30	60	5	30	60
		Speed	rpm	900	150	75	900	150	75
		Nominal torque	Nm	4.0	15.0	15.0	3.7	17.2	19.0
		Intermittent torque	Nm	6.9	15.0	15.0	6.5	22.0	22.0
PBL70-80-LIW		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	36	400	1200	36	400	1200
		Speed	rpm	125	11	4	125	11	4
		Nominal torque	Nm	23.4	28.0	28.0	23.4	45.0	45.0
		Intermittent torque	Nm	28.0	28.0	28.0	41.0	45.0	45.0
PBL70-80-PGX70		Gear material ¹	Comp.	Comp.	Comp.	Steel	Steel	Steel	
		Gear ratio [stages] ²	:1	-	-	-	3.9 [1]	21 [2]	44 [2]
		Speed	rpm	-	-	-	1154	214	102
		Nominal torque	Nm	-	-	-	3.3	17.0	30.0
		Intermittent torque	Nm	-	-	-	5.7	29.8	37.5
PBL70-80-GB12		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	15	30	60	15	30	60
		Speed	rpm	300	150	75	300	150	75
		Nominal torque	Nm	11.0	19.0	20.0	9.9	17.2	26.4
		Intermittent torque	Nm	19.2	32.0	32.0	17.3	30.0	46.2
PBL70-80-LIS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio [stages] ²	:1	6	50	115	-	-	-
		Speed	rpm	750	90	39	-	-	-
		Nominal torque	Nm	4.1	33.9	74.0	-	-	-
		Intermittent torque	Nm	7.1	51.0	100.0	-	-	-
PBL70-80-LWS		Gear material ¹	Comp.	Comp.	Comp.	Bronze	Bronze	Bronze	
		Gear ratio ²	:1	48	672	3450	-	-	-
		Speed	rpm	94	7	1	-	-	-
		Nominal torque	Nm	28.7	100.0	100.0	-	-	-
		Intermittent torque	Nm	45.0	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 **PBL70-80 48V 4500 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.