

EJL SERIES Right-angle Worm

EJL 090 1-Stage Specifications

Frame Size	090						
Ratio	Unit	Note	5.2	7.25	10.25	14.5	19.5
Nominal Output Torque	[Nm]	*1	271	306	314	314	367
Maximum Acceleration Torque	[Nm]	*1	460	490	528	504	584
Emergency Stop Torque	[Nm]	--	1,543	1,543	1,543	1,543	1,543
No Load Running Torque	[Nm]	*2	2.97	2.62	2.33	1.99	1.76
Nominal Input Speed	[rpm]	*1	3,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	15,800				
Maximum Axial Load	[N]	*4	13,000				
Moment of Inertia	[kgcm ²]	--	8.5	6	3.8	3.2	2.5
Efficiency	[%]	*5	94	94	92	88	87
Torsional Rigidity	[Nm/arcmin]	--	75				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	75				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	33.8				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 090 1-Stage Specifications

Frame Size	090					
Ratio	Unit	Note	30	45	60	90
Nominal Output Torque	[Nm]	*1	362	385	364	332
Maximum Acceleration Torque	[Nm]	*1	572	599	559	505
Emergency Stop Torque	[Nm]	--	1,543	1,255	1,230	1,114
No Load Running Torque	[Nm]	*2	1.79	1.43	1.65	1.70
Nominal Input Speed	[rpm]	*1	3,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	15,800			
Maximum Axial Load	[N]	*4	13,000			
Moment of Inertia	[kgcm ²]	--	2.6	1.9	1.7	1
Efficiency	[%]	*5	80	76	72	64
Torsional Rigidity	[Nm/arcmin]	--	75			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10			
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1			
Noise Level	dB [A]	*6	75			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	33.8			

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