

EJL SERIES Right-angle Worm

EJL 055 1-Stage Specifications

Frame Size	055							
Ratio	Unit	Note	3.125	5.2	7.25	10.25	14.5	
Nominal Output Torque	[Nm]	*1	52	60	65	76	71	
Maximum Acceleration Torque	[Nm]	*1	83	103	111	132	115	
Emergency Stop Torque	[Nm]	--	307	307	307	307	307	
No Load Running Torque	[Nm]	*2	1.24	1.15	1.15	0.96	0.96	
Nominal Input Speed	[rpm]	*1	4,000					
Maximum Continuous Input Speed	[rpm]	*1	4,000					
Maximum Cyclic Input Speed	[rpm]	--	6,000					
Maximum Radial Load	[N]	*3	7,000					
Maximum Axial Load	[N]	*4	4,800					
Moment of Inertia	[kgcm ²]	--	1.1	0.75	0.53	0.45	0.38	
Efficiency	[%]	*5	93	93	91	88	85	
Torsional Rigidity	[Nm/arcmin]	--	20					
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	70					
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	8.9					

*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 055 1-Stage Specifications

Frame Size	055							
Ratio	Unit	Note	19.5	30	45	60	90	
Nominal Output Torque	[Nm]	*1	77	83	83	82	76	
Maximum Acceleration Torque	[Nm]	*1	123	130	130	128	117	
Emergency Stop Torque	[Nm]	--	307	307	307	286	263	
No Load Running Torque	[Nm]	*2	0.80	0.82	0.75	0.61	0.66	
Nominal Input Speed	[rpm]	*1	4,000					
Maximum Continuous Input Speed	[rpm]	*1	4,000					
Maximum Cyclic Input Speed	[rpm]	--	6,000					
Maximum Radial Load	[N]	*3	7,000					
Maximum Axial Load	[N]	*4	4,800					
Moment of Inertia	[kgcm ²]	--	0.31	0.34	0.28	0.26	0.12	
Efficiency	[%]	*5	83	75	69	63	55	
Torsional Rigidity	[Nm/arcmin]	--	20					
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	70					
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	8.9					

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

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

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