

EJS 050 1-Stage Specifications

Frame Size	050					
Ratio	--	5	7.5	10	15	20
Nominal Output Torque	[Nm]	77	96	108	130	129
Maximum Acceleration Torque	[Nm]	104	130	144	172	168
Emergency Stop Torque	[Nm]	155	193	216	260	258
No Load Running Torque *1	[Nm]	0.74				
Nominal Input Speed	[rpm]	2,000				
Maximum Continuous Input Speed	[rpm]	3,000				
Maximum Cyclic Input Speed	[rpm]	3,000				
Maximum Radial Load *2	[N]	5,340				
Maximum Axial Load *3	[N]	5,340				
Moment of Inertia ($\leq \varnothing 19$)	[kgcm ²]	2.54	2.18	2.05	1.96	1.93
Efficiency *4	[%]	92	91	90	88	85
Torsional Rigidity	[Nm/arcmin]	10.4				
Maximum Torsional Backlash (Standard)	[Arc-min]	≤ 15				
Maximum Torsional Backlash (Low)	[Arc-min]	≤ 6				
Noise Level *5	dB [A]	≤ 80				
Weight *6	[kg]	16				
Ambient Temperature	[°C]	-23 ~ 93				
Permitted Housing Temperature	[°C]	100				
Service Life	[Hours]	20,000				
Protection Class	--	IP 69K				
Lubrication	--	Synthetic Food Grade Oil				
Mounting Position	--	Any				

*1) Torque at no load applied to the input shaft at 2,000 rpm

*2) The maximum radial load the gearbox can accept

*3) The maximum axial load the gearbox can accept

*4) The efficiency at the nominal output torque rating

*5) Measured with no load applied to the input shaft at 2,000 rpm

*6) Weight may vary slightly between models

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Frame Size	050					
Ratio	--	25	30	40	50	60
Nominal Output Torque	[Nm]	129	123	117	113	109
Maximum Acceleration Torque	[Nm]	168	161	154	148	142
Emergency Stop Torque	[Nm]	258	246	234	226	218
No Load Running Torque *1	[Nm]	0.74				
Nominal Input Speed	[rpm]	2,000				
Maximum Continuous Input Speed	[rpm]	3,000				
Maximum Cyclic Input Speed	[rpm]	3,000				
Maximum Radial Load *2	[N]	5,340				
Maximum Axial Load *3	[N]	5,340				
Moment of Inertia ($\leq \varnothing 19$)	[kgcm ²]	1.92	1.91	1.90	1.90	1.89
Efficiency *4	[%]	84	80	76	73	70
Torsional Rigidity	[Nm/arcmin]	10.4				
Maximum Torsional Backlash (Standard)	[Arc-min]	≤ 15				
Maximum Torsional Backlash (Low)	[Arc-min]	≤ 6				
Noise Level *5	dB [A]	≤ 80				
Weight *6	[kg]	16				
Ambient Temperature	[°C]	-23 ~ 93				
Permitted Housting Temperature	[°C]	100				
Service Life	[Hours]	20,000				
Protection Class	--	IP 69K				
Lubrication	--	Synthetic Food Grade Oil				
Mounting Position	--	Any				

*1) Torque at no load applied to the input shaft at 2,000 rpm

*2) The maximum radial load the gearbox can accept

*3) The maximum axial load the gearbox can accept

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