

# ER-SERIES Circulute 3000 cycloidal reducer

## Rating Table - 3000 rpm Input, Single Reduction, Precision Backlash (less than 6 arc-min)

Frame Size	Ratio	Units	Notes	11	17	29	35	47	59	71
<b>B03</b>	Input	[kW]	--	1.430	1.160	0.710	0.560	0.390	0.320	0.250
	Nominal Output Torque	[Nm]	*1	45.000	56.300	59.200	56.600	52.800	54.000	51.400
	Emergency Stopping Torque	[Nm]	*2	112	141	148	141	132	135	128
	Torsional Rigidity	[Nm/arc-min]	--	3.000	4.700	5.000	5.400	5.400	5.400	5.400
	Moment of Inertia	[kg-cm <sup>2</sup> ]	--	0.716	0.969	0.927	0.927	0.927	0.927	0.927
<b>B07</b>	Input	[kW]	--	1.900	1.540	0.950	0.750	0.520	0.430	0.340
	Nominal Output Torque	[Nm]	*1	60.000	75.000	78.900	75.400	78.200	79.900	76.100
	Emergency Stopping Torque	[Nm]	*2	150	188	197	189	196	200	190
	Torsional Rigidity	[Nm/arc-min]	--	3.000	4.700	5.000	5.400	5.400	5.400	5.400
	Moment of Inertia	[kg-cm <sup>2</sup> ]	--	0.716	0.969	0.927	0.927	0.927	0.927	0.927
<b>C03</b>	Input	[kW]	--	2.910	2.690	1.690	1.550	1.080	0.860	0.710
	Nominal Output Torque	[Nm]	*1	91.700	131	140	155	145	145	144
	Emergency Stopping Torque	[Nm]	*2	229	328	350	388	362	362	361
	Torsional Rigidity	[Nm/arc-min]	--	6.200	11.200	11.900	12.600	12.600	12.600	12.600
	Moment of Inertia	[kg-cm <sup>2</sup> ]	--	3.118	3.412	4.171	4.129	4.086	4.086	4.086
<b>C07</b>	Input	[kW]	--	3.880	3.590	2.250	2.060	1.430	1.140	0.950
	Nominal Output Torque	[Nm]	*1	122	175	187	207	214	214	214
	Emergency Stopping Torque	[Nm]	*2	306	437	467	517	536	536	535
	Torsional Rigidity	[Nm/arc-min]	--	6.200	11.200	11.900	12.600	12.600	12.600	12.600
	Moment of Inertia	[kg-cm <sup>2</sup> ]	--	3.118	3.412	4.171	4.129	4.086	4.086	4.086
<b>D03</b>	Input	[kW]	--	6.830	5.380	3.400	3.010	2.240	1.720	1.360
	Nominal Output Torque	[Nm]	*1	215	262	282	302	302	290	277
	Emergency Stopping Torque	[Nm]	*2	538	654	705	754	754	725	693
	Torsional Rigidity	[Nm/arc-min]	--	17.800	23.000	25.200	27.400	27.400	27.400	27.400
	Moment of Inertia	[kg-cm <sup>2</sup> ]	--	7.752	10.996	12.007	11.754	11.754	11.754	11.501
<b>D07</b>	Input	[kW]	--	9.110	7.170	4.530	4.010	2.990	2.290	1.820
	Nominal Output Torque	[Nm]	*1	287	349	376	402	447	430	411
	Emergency Stopping Torque	[Nm]	*2	718	872	940	1,010	1,120	1,070	1,030
	Torsional Rigidity	[Nm/arc-min]	--	17.800	23.000	25.200	27.400	27.400	27.400	27.400
	Moment of Inertia	[kg-cm <sup>2</sup> ]	--	7.752	10.996	12.007	11.754	11.754	11.754	11.501

\*1) The reducer can continuously sustain this torque value without overheating

\*2) The reducer can sustain this torque value for 1000 cycles without failure

\*3) Acceleration torque is 1.5 times the nominal output torque