



SERIES C123 LOCKING ASSEMBLY

CLIMAX Series C123 is shown in a typical application under a straight-sided spur gear. Note that the gear will move axially – left to right in this illustration – during installation.


C123

Metric

CLIMAX Part No.	Shaft Size (mm)							M _t (ft.-lbs)	F _{ax} (lbs.F)	P _s (psi)	P _h (psi)	D _n *	Locking Screws		
	d	D	L	L ₁	L ₂	L ₃	Qty.						Size	M _a (ft.-lbs)	
C123M-14X32	14	0.551	1.260	0.551	0.709	0.846	1.004	50	2,191	19,127	8,368	1.521	4	M4 x 12	3
C123M-15X32	15	0.591	1.260	0.551	0.709	0.846	1.004	54	2,191	17,852	8,368	1.521	4	M4 x 12	3
C123M-16X32	16	0.630	1.260	0.551	0.709	0.846	1.004	57	2,191	16,736	8,368	1.521	4	M4 x 12	3
C123M-18X47	18	0.709	1.850	0.669	0.886	1.122	1.358	185	6,265	35,037	13,418	2.517	5	M6 x 20	10
C123M-19X47	19	0.748	1.850	0.669	0.886	1.122	1.358	195	6,265	33,193	13,418	2.517	5	M6 x 20	10
C123M-20X47	20	0.787	1.850	0.669	0.886	1.122	1.358	206	6,265	31,533	13,418	2.517	5	M6 x 20	10
C123M-22X47	22	0.866	1.850	0.669	0.886	1.122	1.358	226	6,265	28,667	13,418	2.517	5	M6 x 20	10
C123M-24X50	24	0.945	1.969	0.669	0.886	1.122	1.358	296	7,518	31,533	15,136	2.793	6	M6 x 20	10
C123M-25X50	25	0.984	1.969	0.669	0.886	1.122	1.358	308	7,518	30,272	15,136	2.793	6	M6 x 20	10
C123M-28X55	28	1.102	2.165	0.669	0.886	1.122	1.358	345	7,518	27,028	13,760	2.970	6	M6 x 20	10
C123M-30X55	30	1.181	2.165	0.669	0.886	1.122	1.358	370	7,518	25,227	13,760	2.970	6	M6 x 20	10
C123M-32X60	32	1.260	2.362	0.669	0.886	1.122	1.358	526	10,024	31,533	16,818	3.499	8	M6 x 20	10
C123M-35X60	35	1.378	2.362	0.669	0.886	1.122	1.358	576	10,024	28,830	16,818	3.499	8	M6 x 20	10
C123M-38X65	38	1.496	2.559	0.669	0.886	1.122	1.358	625	10,024	26,554	15,524	3.667	8	M6 x 20	10
C123M-40X65	40	1.575	2.559	0.669	0.886	1.122	1.358	658	10,024	25,227	15,524	3.667	8	M6 x 20	10
C123M-42X75	42	1.654	2.953	0.787	1.043	1.358	1.673	1,117	16,206	33,016	18,489	4.569	7	M8 x 25	26
C123M-45X75	45	1.772	2.953	0.787	1.043	1.358	1.673	1,196	16,206	30,815	18,489	4.569	7	M8 x 25	26
C123M-48X80	48	1.890	3.150	0.787	1.043	1.358	1.673	1,276	16,206	28,889	17,333	4.728	7	M8 x 25	26
C123M-50X80	50	1.969	3.150	0.787	1.043	1.358	1.673	1,329	16,206	27,733	17,333	4.728	7	M8 x 25	26
C123M-55X85	55	2.165	3.346	0.787	1.043	1.358	1.673	1,671	18,521	28,814	18,644	5.200	8	M8 x 25	26
C123M-60X90	60	2.362	3.543	0.787	1.043	1.358	1.673	1,823	18,521	26,413	17,608	5.357	8	M8 x 25	26
C123M-65X95	65	2.559	3.740	0.787	1.043	1.358	1.673	2,222	20,836	27,429	18,767	5.831	9	M8 x 25	26
C123M-70X110	70	2.756	4.331	0.945	1.201	1.594	1.988	3,491	30,403	30,970	19,708	6.927	8	M10 x 30	51
C123M-75X115	75	2.953	4.528	0.945	1.201	1.594	1.988	3,741	30,403	28,906	18,852	7.075	8	M10 x 30	51
C123M-80X120	80	3.150	4.724	0.945	1.201	1.594	1.988	3,990	30,403	27,099	18,066	7.229	8	M10 x 30	51
C123M-85X125	85	3.346	4.921	0.945	1.201	1.594	1.988	4,769	34,204	28,693	19,511	7.829	9	M10 x 30	51
C123M-90X130	90	3.543	5.118	0.945	1.201	1.594	1.988	5,050	34,204	27,099	18,761	7.978	9	M10 x 30	51
C123M-95X135	95	3.740	5.315	0.945	1.201	1.594	1.988	5,923	38,004	28,525	20,073	8.588	10	M10 x 30	51
C123M-100X145	100	3.937	5.709	1.024	1.299	1.772	2.244	7,448	45,406	29,886	20,611	9.363	8	M12 x 35	89
C123M-110X155	110	4.331	6.102	1.024	1.299	1.772	2.244	8,193	45,406	27,169	19,281	9.648	8	M12 x 35	89
C123M-120X165	120	4.724	6.496	1.024	1.299	1.772	2.244	10,055	51,081	28,018	20,377	10.585	9	M12 x 35	89
C123M-130X180	130	5.118	7.087	1.339	1.614	2.165	2.717	14,652	68,706	26,602	19,212	11.183	9	M14 x 40	140
C123M-140X190	140	5.512	7.480	1.339	1.614	2.165	2.717	15,779	68,706	24,701	18,201	11.487	9	M14 x 40	140
C123M-150X200	150	5.906	7.874	1.339	1.614	2.165	2.717	18,784	76,340	25,616	19,212	12.425	10	M14 x 40	140
C123M-160X210	160	6.299	8.268	1.339	1.614	2.165	2.717	22,040	83,974	26,417	20,127	13.378	11	M14 x 40	140
C123M-170X225	170	6.693	8.858	1.732	2.008	2.559	3.110	25,547	91,608	20,959	15,836	12.794	12	M14 x 40	140
C123M-180X235	180	7.087	9.252	1.732	2.008	2.559	3.110	27,050	91,608	19,794	15,162	13.137	12	M14 x 40	140
C123M-190X250	190	7.480	9.843	1.732	2.008	2.559	3.110	35,690	114,510	23,441	17,815	14.961	15	M14 x 40	140
C123M-200X260	200	7.874	10.236	1.732	2.008	2.559	3.110	37,569	114,510	22,269	17,130	15.283	15	M14 x 40	140
C123M-220X285	220	8.661	11.220	1.969	2.244	2.874	3.504	45,638	126,459	19,674	15,187	15.943	12	M16 x 45	218
C123M-240X305	240	9.449	12.008	1.969	2.244	2.874	3.504	62,234	158,073	22,543	17,739	18.216	15	M16 x 45	218
C123M-260X325	260	10.236	12.795	1.969	2.244	2.874	3.504	80,904	189,688	24,971	19,977	20.618	18	M16 x 45	218
C123M-280X355	280	11.024	13.976	2.362	2.638	3.346	4.055	92,692	201,803	20,557	16,214	20.381	16	M18 x 50	299
C123M-300X375	300	11.811	14.764	2.362	2.638	3.346	4.055	111,726	227,028	21,585	17,268	22.123	18	M18 x 50	299

All dimensions are shown in inches unless stated otherwise. All dimensions and capacities are subject to change without notice.

* Minimum hub outside diameter based on a Pressure Reduction Factor of C=1.0 and hub material with tensile yield point ≥ 45,000 psi. For details refer to page 8.