



## Performance Overview

There are three sizes of LMC motors: LEM-130, LEM-170 and LEM-200. Each of these has a series of variants. Below is the performance data for our main production motors:

### LEM-130:

	No Load Current	Torque Constant	Speed Constant	Armature Resistance DC	Armature Inductance @ 15kHz	Armature Inertia	Peak Power	Peak Efficiency	Peak Current	Rated Power	Rated Speed	Rated Voltage	Rated Current	Rated Torque
Motor	A	Nm/A	Rpm/V	mΩ	μH	Kgm <sup>2</sup>	kW	%	A	kW	Rpm	V	A	Nm
95	6	0.0631	138	32.5	14	0.0116	3	82	100	2.27	4968	36	75	4.35
95S	6	0.0631	138	32.5	14	0.0117	4	88	100	3.02	6624	48	75	4.35

### LEM-170:

	No Load Current	Torque Constant	Speed Constant	Armature Resistance DC	Armature Inductance @ 15kHz	Armature Inertia	Peak Power	Peak Efficiency	Peak Current	Rated Power	Rated Speed	Rated Voltage	Rated Current	Rated Torque
Motor	A	Nm/A	Rpm/V	mΩ	μH	Kgm <sup>2</sup>	kW	%	A	kW	Rpm	V	A	Nm
126	18	0.055	140	185	8	0.0234	7	76	400	4.30	3360	24	240	12.2
127	5	0.12	68	24	23	0.0236	16	89	400	5.54	3264	48	140	16.2
D127	4	0.134	62	21	15	0.0236	21	90	400	7.10	3720	60	140	18.2

### LEM-200:

	No Load Current	Torque Constant	Speed Constant	Armature Resistance DC	Armature Inductance @ 15kHz	Armature Inertia	Peak Power	Peak Efficiency	Peak Current	Rated Power	Rated Speed	Rated Voltage	Rated Current	Rated Torque
Motor	A	Nm/A	Rpm/V	mΩ	μH	Kgm <sup>2</sup>	kW	%	A	kW	Rpm	V	A	Nm
95	6	0.113	81	21.5	22	0.0238	18	92	400	6	3888	48	175	19
126	10	0.0737	105	175	6	0.0234	7.59	83	400	5.06	2520	24	270	19.2
127	5	0.15	54	22.5	23	0.0236	16.08	89	400	8.55	2592	48	215	31.5
D95B	6	0.14	76	20.5	11	0.0238	28.50	92	400	15.00	6000	72	200	30.0
D126	5	0.0748	100	138	5	0.0234	11.14	81	400	6.91	3600	36	250	18.3
D127	4	0.17	50	17.5	13	0.0236	25.38	92	400	12.56	3600	72	200	33.3
D135	3.5	0.185	45	16.75	16	0.0236	29.04	93	400	14.39	3780	84	200	36.4
D135 RAG	7.36	0.207	42	16.95	16	0.0238	34.32	93	400	16.84	4032	96	200	39.9
D135 RAGS	7.45	0.21	40	16.95	16	0.0238	36.00	93	400	18.00	4400	110	200	42.0

