

Centurion MSM and LSM Servo Motors

Centurion MSM medium inertia and LSM low inertia servo motors offer very high torque in a compact package solving applications including indexing, palletizing, robotics, packaging, and labeling, to name a few.

Rugged construction in a cost-effective package enhances your equipment reliability. With UL, cUL and CE markings MSM and LSM motors are ready for worldwide application.

High-energy neodymium rare earth permanent magnet rotors deliver high acceleration while the unique stator assembly provides superior heat transfer for reliable operation.

High torque and low cogging are the result of the eight pole motor design (compared to typical 4 or 6 pole designs) used in the LSM family.



Available options:

Fan-over or liquid-cooled versions for extreme load conditions.

Incremental encoder standard. Single-turn or multi-turn absolute high-resolution encoder available for high inertia mismatch or no-homing applications.

Connectorized motor power interface standard, terminal box for motor power connection optional. Holding brake available for vertical axes.

Feature	Benefit
High Acceleration	High energy neodymium magnet rotors provide high acceleration/deceleration in minimum package size
Overload Protection	Temperature sensors built into windings allow intelligent shut down in overload conditions
Thermal Capacity	Unique stator design provides optimal thermal transfer allowing successful automation of high hit rate, demanding applications
High Radial Load Rating	Use direct mount pinions and belt pulleys for cost-effective application
Easy Installation	Standard cable sets simplify machine design, build and commissioning
Feedback Flexibility	Incremental encoder standard, high resolution and multi-turn absolute encoder available
IEC Form Factor	Machine design simplified using standard gearboxes and mounting plates
IP65 Packaging	Industrial packaging insures reliable operation in harsh environments
Agency Approval	UL, cUL and CE Mark allow worldwide application
Reliability	Maintenance-free design manufactured in ISO9000 facility
CAD Drawings	Use available CAD (.DXF) drawings for easy design into your machine

Sheffield Automation – G&L Controls

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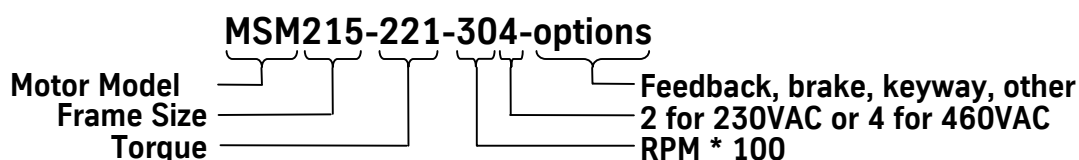


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MSM and LSM Servo Motor Specifications

Motor Model Number	Maximum Motor Speed (RPM)	Motor Continuous Torque (in-lb)	Peak Torque (in-lb)	Motor Inertia (in-lb-s ²)	Continuous Current (Peak of Sine Amps)	Amplifier
MSM100-6-604	6000/3000	6	34	0.0013	2.0	DSA014-460/ DSA007-230
MSM100-14-604	6000/3000	14	71	0.0019	3.4	DSA014-460/ DSA015-230
MSM115-34-404	4000/3000	34	106	0.0050	4.5	DSA014-460/ DSA015-230
MSM115-62-404	4000/2000	62	195	0.0090	7.8	DSA022-460/ DSA030-230
MSM115-89-404	4000/2000	89	283	0.0139	10.9	DSA022-460/ DSA130-230
MSM165-93-204	2000/1000	93	301	0.0198	6.2	DSA014-460/ DSA030-230
MSM165-146-304	3000/1500	146	478	0.0319	13.6	DSA046-460/ DSA130-230
MSM215-221-304	3000	221	620	0.0655	20.5	DSA046-460
MSM215-319-304	3000	319	885	0.0956	28.7	DSA068-460
MSM215-407-304	3000	407	1133	0.1248	36.6	DSA094-460
MSM215-505-304	3000	505	1416	0.1549	45.5	DSA094-460
LSM54-3-602	6000	3	12	0.0000029	1.0	DSA 007
LSM63-6-602	6000	6	25	0.00011	2.1	DSA 007
LSM63-12-602	6000	12	50	0.00017	4.1	DSA 015
LSM75-21-602	6000	21	78	0.00029	5.5	DSA 030
LSM100-22-454	4500/2250	22	97	0.0011	3.3	DSA014-460/ DSA015-230
LSM75-29-602	6000	29	117	0.00039	8.3	DSA 030
LSM100-35-454	4500/2250	35	142	0.0013	5.0	DSA014-460/ DSA015-230
LSM100-46-454	4500/2250	46	142	0.0015	6.4	DSA14-460/ DSA030-230
LSM130-78-454	4500/2250	78	336	0.0036	10.7	DSA022-460/ DSA130-230
LSM130-102-304	3000/1500	102	460	0.0049	9.6	DSA022-460/ DSA030-230
LSM165-119-454	4500	119	451	0.0081	16.4	DSA046-460
LSM165-173-304	3000	173	664	0.0113	16.5	DSA046-460
LSM165-221-454	4500	221	885	0.0146	30.3	DSA068-460
LSM215-301-304	3000	301	929	0.0376	30.4	DSA068-460
LSM215-451-204	2000	451	1398	0.0531	29.7	DSA068-460
LSM215-589-204	2000	589	1859	0.0681	38.9	DSA094-460

Motor Model Number System



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