

Severe Duty - TEFC Multi-Speed Motors

RGZESD

High efficiency severe duty multi-speed motors are ideal for both indoor and outdoor applications, and in severe duty operating atmospheres such as fans, pumps & blowers which require more than one base speed. They meet or exceed NEMA and CSA standards and the operational standards for severe operating environments.

Stator/Windings – Manufactured with premium electrical grade steel laminations and copper electrical magnet wire to lower losses for improved efficiencies. A unique stator core design lowers flux density while increasing cooling capacity. Large conductor cross section reduces resistance and lowers stator losses.



3
YEAR
WARRANTY

Lubrication – A specially formulated, high temperature tested, polyurea based grease is used to provide more than four times the lubrication life of other polyurea greases.

Oversized Conduit Box – Cast iron construction that is larger than industry standards, diagonally-split, neoprene gasketed and rotatable in 90° increments for quick and easy connections. Includes a ground lug and non-wicking, clearly and permanently marked leads.

Corrosion Resistance – Cast iron construction, zinc-plated hardware, epoxy enamel paint and stainless steel nameplate resist rust and corrosion.

Modifiable – All Siemens motors are available with a wide variety of modifications to meet your specific motor needs.



Performance Specifications

- 1 to 250 HP
- 1.15 service factor, 40°C ambient
- 1 winding, 1800/900 RPM, variable torque
- 3 phase, 60 Hz; 460 volt; 200, 230 & 575 volt available
- Meets or exceeds NEMA efficiency standards
- Class F insulation, Class B temperature rise
- NEMA Design B, Continuous Duty
- 143T through 449T frame

Insulation – Proprietary inverter-rated NEMA Class F non-hygroscopic insulation system with Class B temperature rise, provides an extra margin of thermal life. Varnish system application ensures maximum wire penetration to provide protection from moisture, corrosion and electrical shock.

Cooling – A bi-directional, non-sparking fan is locked and keyed to the shaft. Its low-inertia design reduces windage losses, improves airflow, reduces noise and provides dependable cooling. Cast iron fan covers are provided on all frame sizes.

Bearings – Regreasable, oversized single shielded with cast iron inner caps. Alemite grease fittings on the inlets and pipe plugs on the relief ports for ease of routine maintenance. For added bearing protection, 143T-256T frames have a drive end shaft seal and 284T-449T frames have a drive end shaft V-ring slinger.

Features for Long Life

Frame & End Shields – Cast iron construction for exceptional structural integrity with condensation T-drains. Lifting eyebolts are included for frames 213T to 449T.

Rotor – A unique offset rotor bar design provides improved efficiency while larger bars and end rings reduce resistance for lower rotor losses. Each die cast aluminum rotor assembly is dynamically balanced for extended bearing life, and includes a high-strength carbon steel (C1045) shaft for maximum rotor performance.

Specifications table begins on the next page →

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RGZESD - 1 Winding Variable Torque

Stock/Modifiable

HP Continuous		RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	Weight (lbs.)	Stock
High	Low										
1	0.25	1800/900	143T	460	RGZESD	Ball	1LE29611AM240AA3	521	SA-7MM	50	✓
1.5	0.37	1800/900	145T	460	RGZESD	Ball	1LE29611AM340AA3	559	SA-7MM	60	✓
2	0.5	1800/900	182T	460	RGZESD	Ball	1LE29611CM140AA3	641	SA-7MM	90	✓
3	0.75	1800/900	184T	460	RGZESD	Ball	1LE29611CM340AA3	711	SA-7MM	105	✓
5	1.2	1800/900	184T	460	RGZESD	Ball	1LE29611CM440AA3	800	SA-7MM	105	✓
5	1.2	1800/900	213T	460	RGZESD	Ball	1LE29612AM140AA3	831	SA-7MM	135	✓
7.5	1.9	1800/900	213T	460	RGZESD	Ball	1LE29612AM740AA3	1080	SA-7MM	135	✓
7.5	1.9	1800/900	215T	460	RGZESD	Ball	1LE29612AM240AA3	1125	SA-7MM	160	✓
10	2.5	1800/900	215T	460	RGZESD	Ball	1LE29612AM840AA3	1300	SA-7MM	160	✓
10	2.5	1800/900	254T	460	RGZESD	Ball	1LE29612BM140AA3	1356	SA-7MM	245	✓
15	3.7	1800/900	254T	460	RGZESD	Ball	1LE29612BM740AA3	1680	SA-7MM	245	✓
15	3.7	1800/900	256T	460	RGZESD	Ball	1LE29612BM240AA3	1786	SA-7MM	285	✓
20	5	1800/900	256T	460	RGZESD	Ball	1LE29612BM840AA3	2120	SA-7MM	285	✓
20	5	1800/900	284T	460	RGZESD	Ball	1LE29612CM140AA3	2226	SA-7MM	375	✓
25	6.2	1800/900	284T	460	RGZESD	Ball	1LE29612CM740AA3	2540	SA-7MM	375	✓
25	6.2	1800/900	286T	460	RGZESD	Ball	1LE29612CM240AA3	2643	SA-7MM	430	✓
30	7.5	1800/900	286T	460	RGZESD	Ball	1LE29612CM840AA3	2975	SA-7MM	430	✓
30	7.5	1800/900	324T	460	RGZESD	Ball	1LE29613AM140AA3	3081	SA-7MM	565	✓
40	10	1800/900	326T	460	RGZESD	Ball	1LE29613AM240AA3	4093	SA-7MM	600	✓
50	12	1800/900	364T	460	RGZESD	Ball	1LE29613CM140AA3	5027	SA-7MM	831	✓
60	15	1800/900	365T	460	RGZESD	Ball	1LE29613CM240AA3	7212	SA-7MM	875	✓
75	19	1800/900	405T	460	RGZESD	Ball	1LE29614AM240AA3	9142	SA-7MM	1300	✓
100	25	1800/900	444TS	460	RGZESD	Ball	1LE29614DM140AA3	10331	SA-7MM	1625	
125	31	1800/900	445TS	460	RGZESD	Ball	1LE29614DM240AA3	13162	SA-7MM	1900	
150	37	1800/900	447TS	460	RGZESD	Ball	1LE29614DM340AA3	15887	SA-7MM	2280	
200	50	1800/900	449TS	460	RGZESD	Ball	1LE29614DM540AA3	19103	SA-7MM	2600	
250	62.5	1800/900	449TS	460	RGZESD	Ball	1LE29614DM640AA3	26378	SA-7MM	2600	

Notes:
1. Available in RGZZESD designs. Contact factory for pricing.

Speeds	Lines			Conn.
	L1	L2	L3	
Low Speed	T1	T2	T3	T4 T5 T6 Open
High Speed	T6	T4	T5	T1 T2 T3 Together

