

Severe Duty - TEFC Motors

SD100 / RGZEESD

The SD100 and RGZEESD series of severe duty TEFC motors meets or exceeds NEMA Premium® efficiency standards to significantly reduce operating costs and pay for themselves in a short period of time through energy savings. They are ideal for use in chemical processing, mining, foundry, pulp and paper, waste management and petro/chemical applications.

Performance Specifications

- 1 to 20 HP – SD100
- 25 to 400 HP – RGZEESD
- 1.15 service factor, 40°C ambient
- 3600, 1800 or 1200 RPM
- 3-phase, 60 Hz; 208-230/460 and 575 volt operation – SD100
- 3-phase, 60 Hz; 230/460 volt operation under 25 HP, 460 volt 25 HP and above, 200 & 575 volt available - RGZEESD
- Meets or exceeds NEMA Premium® efficiency standards
- Class F insulation, Class B temperature rise @ 1.0SF
- NEMA design B, continuous duty
- 143T to 256T frame – SD100
- 284T to S449 frame – RGZEESD

Features for Long Life

Frame & End Shields – Cast iron construction for exceptional structural integrity & corrosion resistance, equipped with integrally cast feet and condensation T-drains. Lifting eyebolts are included with motors > 75 lbs.

Rotor – The SD100 motors use Siemens exclusive, leading edge, die cast copper rotor design which provides industry leading efficiencies, exceeding NEMA Premium. The RGZEESD motors, which meet the NEMA Premium efficiency levels, have a die cast aluminum rotor. Each rotor assembly is dynamically balanced for extended bearing life, and includes a high-strength carbon steel (C1045) shaft for maximum rotor performance.

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.

Insulation – Proprietary inverter-rated Class F non-hygroscopic insulation system with NEMA Class B temperature rise @ 1.0SF provides an extra margin of thermal life. Varnish system application ensures maximum wire penetration to provide protection from moisture, corrosion and electrical shock. This insulation system meets or exceeds NEMA MG1-2006, Part 31 making all motors suitable for operation with variable frequency drives.

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

Bearings – Regreasable, oversized double shielded (SD100) / single shielded (RGZEESD) with cast iron inner caps. Alemite grease fittings on the inlets and pipe plugs on the relief ports for ease of routine maintenance. All motors are equipped with drive end and opposite drive end shaft V-ring slingers for added bearing protection. Provisions for Inpro/Seal® bearing isolators are standard on both ends.

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, polycarbonate fan, zinc-plated hardware, epoxy enamel paint and stainless steel nameplate resist rust and corrosion.

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



Specifications table begins on the next page →

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SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
Horizontal, Foot Mounted												
1	3600	143T	208-230/460	SD100	Ball	1LE23111AA114AA3	453	SD2	2.6	87.5	80	✓
1	3600	143T	575	SD100	Ball	1LE23111AA113AA3	453	SD2	2.08	87.5	80	✓
1	3600	143T	230/460	RGZEESD	Ball	1LE29721AA116AA3	410	SA-7EXSD	1.3	82.5	58	✓
1	3600	143T	575	RGZEESD	Ball	1LE29721AA113AA3	410	SA-7EXSD	1.04	82.5	58	✓
1	1800	143T	208-230/460	SD100	Ball	1LE23111AB214AA3	423	SD2	1.5	86.5	81	✓
1	1800	143T	575	SD100	Ball	1LE23111AB213AA3	423	SD2	1.2	86.5	81	✓
1	1800	143T	230/460	RGZEESD	Ball	1LE29721AB216AA3	384	SA-7EXSD	1.5	85.5	62	✓
1	1800	143T	575	RGZEESD	Ball	1LE29721AB213AA3	384	SA-7EXSD	1.2	85.5	62	✓
1	1200	145T	208-230/460	SD100	Ball	1LE23111AC314AA3	525	SD2	1.6	84	81	✓
1	1200	145T	575	SD100	Ball	1LE23111AC313AA3	525	SD2	1.28	84	81	✓
1.5	3600	143T	208-230/460	SD100	Ball	1LE23111AA214AA3	453	SD2	1.9	87.5	80	✓
1.5	3600	143T	575	SD100	Ball	1LE23111AA213AA3	453	SD2	1.52	87.5	80	✓
1.5	3600	143T	230/460	RGZEESD	Ball	1LE29721AA216AA3	410	SA-7EXSD	1.9	85.5	60	✓
1.5	3600	143T	575	RGZEESD	Ball	1LE29721AA213AA3	410	SA-7EXSD	1.52	85.5	60	✓
1.5	1800	145T	208-230/460	SD100	Ball	1LE23111AB314AA3	469	SD2	2.1	87.5	81	✓
1.5	1800	145T	575	SD100	Ball	1LE23111AB313AA3	469	SD2	1.68	87.5	81	✓
1.5	1800	145T	230/460	RGZEESD	Ball	1LE29721AB316AA3	426	SA-7EXSD	2.2	86.5	65	✓
1.5	1800	145T	575	RGZEESD	Ball	1LE29721AB313AA3	426	SA-7EXSD	1.76	86.5	65	✓
1.5	1200	182T	208-230/460	SD100	Ball	1LE23111CC114AA3	592	SD2	2.4	87.5	117	✓
1.5	1200	182T	575	SD100	Ball	1LE23111CC113AA3	592	SD2	1.92	87.5	117	✓
2	3600	145T	208-230/460	SD100	Ball	1LE23111AA314AA3	542	SD2	2.6	88.5	80	✓
2	3600	145T	575	SD100	Ball	1LE23111AA313AA3	542	SD2	2.08	88.5	80	✓
2	3600	145T	230/460	RGZEESD	Ball	1LE29721AA316AA3	491	SA-7EXSD	2.4	86.5	67	✓
2	3600	145T	575	RGZEESD	Ball	1LE29721AA313AA3	491	SA-7EXSD	1.92	86.5	67	✓
2	1800	145T	208-230/460	SD100	Ball	1LE23111AB414AA3	517	SD2	2.8	87.5	81	✓
2	1800	145T	575	SD100	Ball	1LE23111AB413AA3	517	SD2	2.24	87.5	81	✓
2	1800	145T	230/460	RGZEESD	Ball	1LE29721AB416AA3	469	SA-7EXSD	2.8	86.5	69	✓
2	1800	145T	575	RGZEESD	Ball	1LE29721AB413AA3	469	SA-7EXSD	2.24	86.5	69	✓
2	1200	184T	208-230/460	SD100	Ball	1LE23111CC314AA3	662	SD2	3	88.5	127	✓
2	1200	184T	575	SD100	Ball	1LE23111CC313AA3	662	SD2	2.4	88.5	127	✓
3	3600	182T	208-230/460	SD100	Ball	1LE23111CA114AA3	610	SD2	3.8	89.5	121	✓
3	3600	182T	575	SD100	Ball	1LE23111CA113AA3	610	SD2	3.04	89.5	121	✓
3	3600	182T	230/460	RGZEESD	Ball	1LE29721CA116AA3	553	SA-7EXSD	3.6	86.5	82	✓
3	3600	182T	575	RGZEESD	Ball	1LE29721CA113AA3	553	SA-7EXSD	2.88	86.5	82	✓
3	1800	182T	208-230/460	SD100	Ball	1LE23111CB114AA3	572	SD2	4	90.2	125	✓
3	1800	182T	575	SD100	Ball	1LE23111CB113AA3	572	SD2	3.2	90.2	125	✓
3	1800	182T	230/460	RGZEESD	Ball	1LE29721CB116AA3	519	SA-7EXSD	4	89.5	113	✓
3	1800	182T	575	RGZEESD	Ball	1LE29721CB113AA3	519	SA-7EXSD	3.2	89.5	113	✓
3	1200	213T	208-230/460	SD100	Ball	1LE23112AC114AA3	807	SD2	4.3	90.2	170	✓
3	1200	213T	575	SD100	Ball	1LE23112AC113AA3	807	SD2	3.44	90.2	170	✓

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.

Highlighted SD100 ratings exceeded NEMA Premium efficiency levels using Siemens copper rotor technology.

Severe Duty - TEFC Motors

SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
Horizontal, Foot Mounted - continued												
5	3600	184T	208-230/460	SD100	Ball	1LE23111CA314AA3	755	SD2	6.2	90.2	123	✓
5	3600	184T	575	SD100	Ball	1LE23111CA313AA3	755	SD2	4.96	90.2	123	✓
5	3600	184T	230/460	RGZEESD	Ball	1LE29721CA316AA3	685	SA-7EXSD	5.7	88.5	95	✓
5	3600	184T	575	RGZEESD	Ball	1LE29721CA313AA3	685	SA-7EXSD	4.56	88.5	95	✓
5	1800	184T	208-230/460	SD100	Ball	1LE23111CB314AA3	669	SD2	6.7	90.2	129	✓
5	1800	184T	575	SD100	Ball	1LE23111CB313AA3	669	SD2	5.36	90.2	129	✓
5	1800	184T	230/460	RGZEESD	Ball	1LE29721CB316AA3	607	SA-7EXSD	6.4	89.5	126	✓
5	1800	184T	575	RGZEESD	Ball	1LE29721CB313AA3	607	SA-7EXSD	5.12	89.5	126	✓
5	1200	215T	208-230/460	SD100	Ball	1LE23112AC214AA3	1137	SD2	6.8	90.2	184	✓
5	1200	215T	575	SD100	Ball	1LE23112AC213AA3	1137	SD2	5.44	90.2	184	✓
7.5	3600	213T	208-230/460	SD100	Ball	1LE23112AA114AA3	912	SD2	8.5	91.7	191	✓
7.5	3600	213T	575	SD100	Ball	1LE23112AA113AA3	912	SD2	6.8	91.7	191	✓
7.5	3600	213T	230/460	RGZEESD	Ball	1LE29722AA116AA3	828	SA-7EXSD	8.6	89.5	146	✓
7.5	3600	213T	575	RGZEESD	Ball	1LE29722AA113AA3	828	SA-7EXSD	6.88	89.5	146	✓
7.5	1800	213T	208-230/460	SD100	Ball	1LE23112AB114AA3	907	SD2	9.5	92.4	198	✓
7.5	1800	213T	575	SD100	Ball	1LE23112AB113AA3	907	SD2	7.6	92.4	198	✓
7.5	1800	213T	230/460	RGZEESD	Ball	1LE29722AB116AA3	823	SA-7EXSD	9.5	91.7	205	✓
7.5	1800	213T	575	RGZEESD	Ball	1LE29722AB113AA3	823	SA-7EXSD	7.6	91.7	205	✓
7.5	1200	254T	208-230/460	SD100	Ball	1LE23112BC114AA3	1512	SD2	10.5	92.4	336	✓
7.5	1200	254T	575	SD100	Ball	1LE23112BC113AA3	1512	SD2	8.4	92.4	336	✓
10	3600	215T	208-230/460	SD100	Ball	1LE23112AA214AA3	1067	SD2	11.5	91.7	196	✓
10	3600	215T	575	SD100	Ball	1LE23112AA213AA3	1067	SD2	9.2	91.7	196	✓
10	3600	215T	230/460	RGZEESD	Ball	1LE29722AA216AA3	968	SA-7EXSD	11.4	90.2	164	✓
10	3600	215T	575	RGZEESD	Ball	1LE29722AA213AA3	968	SA-7EXSD	9.12	90.2	164	✓
10	1800	215T	208-230/460	SD100	Ball	1LE23112AB214AA3	1093	SD2	12.5	92.4	206	✓
10	1800	215T	575	SD100	Ball	1LE23112AB213AA3	1093	SD2	10	92.4	206	✓
10	1800	215T	230/460	RGZEESD	Ball	1LE29722AB216AA3	991	SA-7EXSD	12.5	91.7	222	✓
10	1800	215T	575	RGZEESD	Ball	1LE29722AB213AA3	991	SA-7EXSD	10	91.7	222	✓
10	1200	256T	208-230/460	SD100	Ball	1LE23112BC214AA3	1847	SD2	13.5	92.4	337	✓
10	1200	256T	575	SD100	Ball	1LE23112BC213AA3	1847	SD2	10.8	92.4	337	✓
15	3600	254T	208-230/460	SD100	Ball	1LE23112BA114AA3	1465	SD2	17	92.4	309	✓
15	3600	254T	575	SD100	Ball	1LE23112BA113AA3	1465	SD2	13.6	92.4	309	✓
15	3600	254T	230/460	RGZEESD	Ball	1LE29722BA116AA3	1329	SA-7EXSD	17	91	251	✓
15	3600	254T	575	RGZEESD	Ball	1LE29722BA113AA3	1329	SA-7EXSD	13.6	91	251	✓
15	1800	254T	208-230/460	SD100	Ball	1LE23112BB114AA3	1440	SD2	19	93	297	✓
15	1800	254T	575	SD100	Ball	1LE23112BB113AA3	1440	SD2	15.2	93	297	✓
15	1800	254T	230/460	RGZEESD	Ball	1LE29722BB116AA3	1306	SA-7EXSD	19	92.4	315	✓
15	1800	254T	575	RGZEESD	Ball	1LE29722BB113AA3	1306	SA-7EXSD	15.2	92.4	315	✓
15	1200	284T	230/460	RGZEESD	Ball	1LE29722CC116AA3	2222	SA-7EXSD	21	91.7	400	✓
15	1200	284T	575	RGZEESD	Ball	1LE29722CC113AA3	2222	SA-7EXSD	16.8	91.7	400	✓

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.

Highlighted SD100 ratings exceeded NEMA Premium efficiency levels using Siemens copper rotor technology.

Introduction

HIGH EFFICIENT
General Purpose

HIGH EFFICIENT
Severe Duty

HIGH EFFICIENT
Multi Speed

HIGH EFFICIENT
Hazardous Duty

HIGH EFFICIENT
Definite Purpose

HIGH EFFICIENT
P-Base Vertical

NEMA PREMIUM
General Purpose

NEMA PREMIUM
Severe Duty

Severe Duty - TEFC Motors

SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
Horizontal, Foot Mounted - continued												
20	3600	256T	208-230/460	SD100	Ball	1LE23112BA214AA3	1814	SD2	23	92.4	333	✓
20	3600	256T	575	SD100	Ball	1LE23112BA213AA3	1814	SD2	18	92.4	333	✓
20	3600	256T	230/460	RGZEESD	Ball	1LE29722BA216AA3	1646	SA-7EXSD	23	91	275	✓
20	3600	256T	575	RGZEESD	Ball	1LE29722BA213AA3	1646	SA-7EXSD	18.4	91	275	✓
20	1800	256T	208-230/460	SD100	Ball	1LE23112BB214AA3	1793	SD2	25	93.6	341	✓
20	1800	256T	575	SD100	Ball	1LE23112BB213AA3	1793	SD2	20	93.6	341	✓
20	1800	256T	230/460	RGZEESD	Ball	1LE29722BB216AA3	1627	SA-7EXSD	24	93	340	✓
20	1800	256T	575	RGZEESD	Ball	1LE29722BB213AA3	1627	SA-7EXSD	19.2	93	340	✓
20	1200	286T	230/460	RGZEESD	Ball	1LE29722CC216AA3	2707	SA-7EXSD	27	91.7	465	✓
20	1200	286T	575	RGZEESD	Ball	1LE29722CC213AA3	2707	SA-7EXSD	21.6	91.7	465	✓
25	3600	284TS	460	RGZEESD	Ball	1LE29722DA112AA3	2029	SA-7EXSD	29	91.7	415	✓
25	3600	284TS	575	RGZEESD	Ball	1LE29722DA113AA3	2029	SA-7EXSD	23.2	91.7	415	✓
25	1800	284TS	460	RGZEESD	Ball	1LE29722DB112AA3	1936	SA-7EXSD	30	93.6	445	✓
25	1800	284T	460	RGZEESD	Ball	1LE29722CB112AA3	1936	SA-7EXSD	30	93.6	445	✓
25	1800	284TS	575	RGZEESD	Ball	1LE29722DB113AA3	1936	SA-7EXSD	24	93.6	445	✓
25	1800	284T	575	RGZEESD	Ball	1LE29722CB113AA3	1936	SA-7EXSD	24	93.6	445	✓
25	1200	324T	460	RGZEESD	Ball	1LE29723AC112AA3	3189	SA-7EXSD	33	93	640	✓
25	1200	324T	575	RGZEESD	Ball	1LE29723AC113AA3	3189	SA-7EXSD	26.4	93	640	✓
30	3600	286TS	460	RGZEESD	Ball	1LE29722DA212AA3	2369	SA-7EXSD	34	91.7	430	✓
30	3600	286TS	575	RGZEESD	Ball	1LE29722DA213AA3	2369	SA-7EXSD	27.2	91.7	430	✓
30	1800	286TS	460	RGZEESD	Ball	1LE29722DB212AA3	2253	SA-7EXSD	35	93.6	465	✓
30	1800	286T	460	RGZEESD	Ball	1LE29722CB212AA3	2253	SA-7EXSD	35	93.6	465	✓
30	1800	286TS	575	RGZEESD	Ball	1LE29722DB213AA3	2253	SA-7EXSD	28	93.6	465	✓
30	1800	286T	575	RGZEESD	Ball	1LE29722CB213AA3	2253	SA-7EXSD	28	93.6	465	✓
30	1200	326T	460	RGZEESD	Ball	1LE29723AC212AA3	3778	SA-7EXSD	39	93	675	✓
30	1200	326T	575	RGZEESD	Ball	1LE29723AC213AA3	3778	SA-7EXSD	31.2	93	675	✓
40	3600	324TS	460	RGZEESD	Ball	1LE29723BA112AA3	3125	SA-7EXSD	45	93.6	575	✓
40	3600	324TS	575	RGZEESD	Ball	1LE29723BA113AA3	3125	SA-7EXSD	36	93.6	575	✓
40	1800	324TS	460	RGZEESD	Ball	1LE29723BB112AA3	2992	SA-7EXSD	46	94.1	666	✓
40	1800	324T	460	RGZEESD	Ball	1LE29723AB112AA3	2992	SA-7EXSD	46	94.1	666	✓
40	1800	324TS	575	RGZEESD	Ball	1LE29723BB113AA3	2992	SA-7EXSD	36.8	94.1	666	✓
40	1800	324T	575	RGZEESD	Ball	1LE29723AB113AA3	2992	SA-7EXSD	36.8	94.1	666	✓
40	1200	364T	460	RGZEESD	Ball	1LE29723CC112AA3	5123	SA-7EXSD	49	94.1	863	✓
40	1200	364T	575	RGZEESD	Ball	1LE29723CC113AA3	5123	SA-7EXSD	39.2	94.1	863	✓
50	3600	326TS	460	RGZEESD	Ball	1LE29723BA212AA3	4043	SA-7EXSD	55	93.6	610	✓
50	3600	326TS	575	RGZEESD	Ball	1LE29723BA213AA3	4043	SA-7EXSD	44	93.6	610	✓
50	1800	326TS	460	RGZEESD	Ball	1LE29723BB212AA3	3675	SA-7EXSD	58	94.5	700	✓
50	1800	326T	460	RGZEESD	Ball	1LE29723AB212AA3	3675	SA-7EXSD	58	94.5	700	✓
50	1800	326TS	575	RGZEESD	Ball	1LE29723BB213AA3	3675	SA-7EXSD	46.4	94.5	700	✓
50	1800	326T	575	RGZEESD	Ball	1LE29723AB213AA3	3675	SA-7EXSD	46.4	94.5	700	✓
50	1200	365T	460	RGZEESD	Ball	1LE29723CC212AA3	5882	SA-7EXSD	62	94.1	900	✓
50	1200	365T	575	RGZEESD	Ball	1LE29723CC213AA3	5882	SA-7EXSD	49.6	94.1	900	✓

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.

Highlighted SD100 ratings exceeded NEMA Premium efficiency levels using Siemens copper rotor technology.

Severe Duty - TEFC Motors

SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
Horizontal, Foot Mounted- continued												
60	3600	364TS	460	RGZEESD	Ball	1LE29723DA112AA3	5318	SA-7EXSD	68	93.6	717	✓
60	3600	364TS	575	RGZEESD	Ball	1LE29723DA113AA3	5318	SA-7EXSD	54.4	93.6	717	✓
60	1800	364TS	460	RGZEESD	Ball	1LE29723DB112AA3	5272	SA-7EXSD	68	95	930	✓
60	1800	364T	460	RGZEESD	Ball	1LE29723CB112AA3	5272	SA-7EXSD	68	95	930	✓
60	1800	364TS	575	RGZEESD	Ball	1LE29723DB113AA3	5272	SA-7EXSD	54.4	95	930	✓
60	1800	364T	575	RGZEESD	Ball	1LE29723CB113AA3	5272	SA-7EXSD	54.4	95	930	✓
60	1200	404T	460	RGZEESD	Ball	1LE29724AC112AA3	6892	SA-7EXSD	74	94.5	1100	✓
60	1200	404T	575	RGZEESD	Ball	1LE29724AC113AA3	6892	SA-7EXSD	59.2	94.5	1100	✓
75	3600	365TS	460	RGZEESD	Ball	1LE29723DA212AA3	6678	SA-7EXSD	85	94.1	815	✓
75	3600	365TS	575	RGZEESD	Ball	1LE29723DA213AA3	6678	SA-7EXSD	68	94.1	815	✓
75	1800	365TS	460	RGZEESD	Ball	1LE29723DB212AA3	6683	SA-7EXSD	85	95.4	1000	✓
75	1800	365T	460	RGZEESD	Ball	1LE29723CB212AA3	6683	SA-7EXSD	85	95.4	1000	✓
75	1800	365TS	575	RGZEESD	Ball	1LE29723DB213AA3	6683	SA-7EXSD	68	95.4	1000	✓
75	1800	365T	575	RGZEESD	Ball	1LE29723CB213AA3	6683	SA-7EXSD	68	95.4	1000	✓
75	1200	405T	460	RGZEESD	Ball	1LE29724AC212AA3	8114	SA-7EXSD	93	94.5	1150	✓
75	1200	405T	575	RGZEESD	Ball	1LE29724AC213AA3	8114	SA-7EXSD	74.4	94.5	1150	✓
100	3600	405TS	460	RGZEESD	Ball	1LE29724BA212AA3	8949	SA-7EXSD	108	94.1	1100	✓
100	3600	405TS	575	RGZEESD	Ball	1LE29724BA213AA3	8949	SA-7EXSD	86.4	94.1	1100	✓
100	1800	405TS	460	RGZEESD	Ball	1LE29724BB212AA3	8257	SA-7EXSD	113	95.4	1160	✓
100	1800	405T	460	RGZEESD	Ball	1LE29724AB212AA3	8257	SA-7EXSD	113	95.4	1160	✓
100	1800	405TS	575	RGZEESD	Ball	1LE29724BB213AA3	8257	SA-7EXSD	90.4	95.4	1160	✓
100	1800	405T	575	RGZEESD	Ball	1LE29724AB213AA3	8257	SA-7EXSD	90.4	95.4	1160	✓
100	1200	444TS	460	RGZEESD	Ball	1LE29724DC112AA3	11090	SA-7EXSD	117	95	1545	✓
100	1200	444T	460	RGZEESD	Roller	1LE29724CC112AA3	11090	SA-7EXSD	117	95	1545	✓
100	1200	B444T	460	RGZEESD	Ball	1LE29724EC112AA3	11090	SA-7EXSD	117	95	1545	✓
100	1200	444TS	575	RGZEESD	Ball	1LE29724DC113AA3	11090	SA-7EXSD	93.6	95	1545	✓
100	1200	444T	575	RGZEESD	Roller	1LE29724CC113AA3	11090	SA-7EXSD	93.6	95	1545	✓
100	1200	B444T	575	RGZEESD	Ball	1LE29724EC113AA3	11090	SA-7EXSD	93.6	95	1545	✓
125	3600	444TS	460	RGZEESD	Ball	1LE29724DA112AA3	11697	SA-7EXSD	138	95	1454	✓
125	3600	444TS	575	RGZEESD	Ball	1LE29724DA113AA3	11697	SA-7EXSD	110.4	95	1454	✓
125	1800	444TS	460	RGZEESD	Ball	1LE29724DB112AA3	10870	SA-7EXSD	143	95.4	1600	✓
125	1800	444T	460	RGZEESD	Roller	1LE29724CB112AA3	10870	SA-7EXSD	143	95.4	1600	✓
125	1800	B444T	460	RGZEESD	Ball	1LE29724EB112AA3	10870	SA-7EXSD	143	95.4	1600	✓
125	1800	444TS	575	RGZEESD	Ball	1LE29724DB113AA3	10870	SA-7EXSD	114.4	95.4	1600	✓
125	1800	444T	575	RGZEESD	Roller	1LE29724CB113AA3	10870	SA-7EXSD	114.4	95.4	1600	✓
125	1800	B444T	575	RGZEESD	Ball	1LE29724EB113AA3	10870	SA-7EXSD	114.4	95.4	1600	✓
125	1200	445TS	460	RGZEESD	Ball	1LE29724DC212AA3	13621	SA-7EXSD	144	95	1720	✓
125	1200	445T	460	RGZEESD	Roller	1LE29724CC212AA3	13621	SA-7EXSD	144	95	1720	✓
125	1200	B445T	460	RGZEESD	Ball	1LE29724EC212AA3	13621	SA-7EXSD	144	95	1720	✓
125	1200	445TS	575	RGZEESD	Ball	1LE29724DC213AA3	13621	SA-7EXSD	115.2	95	1720	✓
125	1200	445T	575	RGZEESD	Roller	1LE29724CC213AA3	13621	SA-7EXSD	115.2	95	1720	✓
125	1200	B445T	575	RGZEESD	Ball	1LE29724EC213AA3	13621	SA-7EXSD	115.2	95	1720	✓

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.

Introduction

HIGH EFFICIENT
General Purpose

HIGH EFFICIENT
Severe Duty

HIGH EFFICIENT
Multi-Speed

HIGH EFFICIENT
Hazardous Duty

HIGH EFFICIENT
Definite Purpose

HIGH EFFICIENT
P-Base Vertical

NEMA PREMIUM
General Purpose

NEMA PREMIUM
Severe Duty

Severe Duty - TEFC Motors

SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
Horizontal, Foot Mounted - continued												
150	3600	445TS	460	RGZEESD	Ball	1LE29724DA212AA3	14052	SA-7EXSD	164	95	1615	✓
150	3600	445TS	575	RGZEESD	Ball	1LE29724DA213AA3	14052	SA-7EXSD	131.2	95	1615	
150	1800	445TS	460	RGZEESD	Ball	1LE29724DB212AA3	12637	SA-7EXSD	170	95.8	1710	✓
150	1800	445T	460	RGZEESD	Roller	1LE29724CB212AA3	12637	SA-7EXSD	170	95.8	1710	✓
150	1800	B445T	460	RGZEESD	Ball	1LE29724EB212AA3	12637	SA-7EXSD	170	95.8	1710	✓
150	1800	445TS	575	RGZEESD	Ball	1LE29724DB213AA3	12637	SA-7EXSD	136	95.8	1710	✓
150	1800	445T	575	RGZEESD	Roller	1LE29724CB213AA3	12637	SA-7EXSD	136	95.8	1710	✓
150	1800	B445T	575	RGZEESD	Ball	1LE29724EB213AA3	12637	SA-7EXSD	136	95.8	1710	✓
150	1200	447TS	460	RGZEESD	Ball	1LE29724DC312AA3	15240	SA-7EXSD	172	95.8	1995	✓
150	1200	447T	460	RGZEESD	Roller	1LE29724CC312AA3	15240	SA-7EXSD	172	95.8	1995	✓
150	1200	B447T	460	RGZEESD	Ball	1LE29724EC312AA3	15240	SA-7EXSD	172	95.8	1995	✓
150	1200	447TS	575	RGZEESD	Ball	1LE29724DC313AA3	15240	SA-7EXSD	137.6	95.8	1995	✓
150	1200	447T	575	RGZEESD	Roller	1LE29724CC313AA3	15240	SA-7EXSD	137.6	95.8	1995	✓
150	1200	B447T	575	RGZEESD	Ball	1LE29724EC313AA3	15240	SA-7EXSD	137.6	95.8	1995	✓
200	3600	447TS	460	RGZEESD	Ball	1LE29724DA312AA3	17776	SA-7EXSD	216	95.4	1890	✓
200	3600	447TS	575	RGZEESD	Ball	1LE29724DA313AA3	17776	SA-7EXSD	172.8	95.4	1890	
200	1800	447TS	460	RGZEESD	Ball	1LE29724DB312AA3	15371	SA-7EXSD	226	96.2	2035	✓
200	1800	447T	460	RGZEESD	Roller	1LE29724CB312AA3	15371	SA-7EXSD	226	96.2	2035	✓
200	1800	B447T	460	RGZEESD	Ball	1LE29724EB312AA3	15371	SA-7EXSD	226	96.2	2035	✓
200	1800	447TS	575	RGZEESD	Ball	1LE29724DB313AA3	15371	SA-7EXSD	180.8	96.2	2035	✓
200	1800	447T	575	RGZEESD	Roller	1LE29724CB313AA3	15371	SA-7EXSD	180.8	96.2	2035	✓
200	1800	B447T	575	RGZEESD	Ball	1LE29724EB313AA3	15371	SA-7EXSD	180.8	96.2	2035	✓
200	1200	449TS	460	RGZEESD	Ball	1LE29724DC512AA3	18656	SA-7EXSD	227	95.8	2425	✓
200	1200	449T	460	RGZEESD	Roller	1LE29724CC512AA3	18656	SA-7EXSD	227	95.8	2425	✓
200	1200	B449T	460	RGZEESD	Ball	1LE29724EC512AA3	18656	SA-7EXSD	227	95.8	2425	✓
200	1200	449TS	575	RGZEESD	Ball	1LE29724DC513AA3	18656	SA-7EXSD	181.6	95.8	2425	✓
200	1200	449T	575	RGZEESD	Roller	1LE29724CC513AA3	18656	SA-7EXSD	181.6	95.8	2425	✓
200	1200	B449T	575	RGZEESD	Ball	1LE29724EC513AA3	18656	SA-7EXSD	181.6	95.8	2425	✓
250	3600	449TS	460	RGZEESD	Ball	1LE29724DA512AA3	22419	SA-7EXSD	269	95.8	2272	✓
250	3600	449TS	575	RGZEESD	Ball	1LE29724DA513AA3	22419	SA-7EXSD	215.2	95.8	2272	
250	1800	449TS	460	RGZEESD	Ball	1LE29724DB512AA3	19284	SA-7EXSD	281	96.2	2425	✓
250	1800	449T	460	RGZEESD	Roller	1LE29724CB512AA3	19284	SA-7EXSD	281	96.2	2425	✓
250	1800	B449T	460	RGZEESD	Ball	1LE29724EB512AA3	19284	SA-7EXSD	281	96.2	2425	✓
250	1800	449TS	575	RGZEESD	Ball	1LE29724DB513AA3	19284	SA-7EXSD	224.8	96.2	2425	✓
250	1800	449T	575	RGZEESD	Roller	1LE29724CB513AA3	19284	SA-7EXSD	224.8	96.2	2425	✓
250	1800	B449T	575	RGZEESD	Ball	1LE29724EB513AA3	19284	SA-7EXSD	224.8	96.2	2425	✓
250	1200	449TS	460	RGZEESD	Ball	1LE29724DC612AA3	20301	SA-7EXSD	281	95.8	2390	✓
250	1200	449T	460	RGZEESD	Roller	1LE29724CC612AA3	20301	SA-7EXSD	281	95.8	2390	✓
250	1200	B449T	460	RGZEESD	Ball	1LE29724EC612AA3	20301	SA-7EXSD	281	95.8	2390	✓
250	1200	449TS	575	RGZEESD	Ball	1LE29724DC613AA3	20301	SA-7EXSD	224.8	95.8	2390	✓
250	1200	449T	575	RGZEESD	Roller	1LE29724CC613AA3	20301	SA-7EXSD	224.8	95.8	2390	✓
250	1200	B449T	575	RGZEESD	Ball	1LE29724EC613AA3	20301	SA-7EXSD	224.8	95.8	2390	✓

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.

Severe Duty - TEFC Motors

SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
Horizontal, Foot Mounted- continued												
300	3600	449TS	460	RGZEESD	Ball	1LE29724DA612AA3	27898	SA-7EXSD	323	95.8	2200	✓
300	3600	449TS	575	RGZEESD	Ball	1LE29724DA613AA3	27898	SA-7EXSD	258.4	95.8	2200	✓
300	1800	449TS	460	RGZEESD	Ball	1LE29724DB612AA3	20445	SA-7EXSD	346	96.2	3130	✓
300	1800	449T	460	RGZEESD	Roller	1LE29724CB612AA3	20445	SA-7EXSD	346	96.2	3130	✓
300	1800	B449T	460	RGZEESD	Ball	1LE29724EB612AA3	20445	SA-7EXSD	346	96.2	3130	✓
300	1800	449TS	575	RGZEESD	Ball	1LE29724DB613AA3	20445	SA-7EXSD	276.8	96.2	3130	✓
300	1800	449T	575	RGZEESD	Roller	1LE29724CB613AA3	20445	SA-7EXSD	276.8	96.2	3130	✓
300	1800	B449T	575	RGZEESD	Ball	1LE29724EB613AA3	20445	SA-7EXSD	276.8	96.2	3130	✓
300	1200	S449LS	460	RGZEESD	Roller	1LE29724FC112AA3	37844	SA-7EXSD	342	95.8	3240	✓
300	1200	S449LS	575	RGZEESD	Roller	1LE29724FC113AA3	37844	SA-7EXSD	273.6	95.8	3240	✓
350	3600	S449SS	460	RGZEESD	Ball ¹	1LE29724GA112AA3	35044	SA-7EXSD	372	95.8	2890	✓
350	3600	S449SS	575	RGZEESD	Ball ¹	1LE29724GA113AA3	35044	SA-7EXSD	297.6	95.8	2890	✓
350	1800	S449SS	460	RGZEESD	Ball	1LE29724GB212AA3	32449	SA-7EXSD	392	96.2	3190	✓
350	1800	S449LS	460	RGZEESD	Roller	1LE29724FB212AA3	32449	SA-7EXSD	392	96.2	3190	✓
350	1800	S449SS	575	RGZEESD	Ball	1LE29724GB213AA3	32449	SA-7EXSD	313.6	96.2	3190	✓
350	1800	S449LS	575	RGZEESD	Roller	1LE29724FB213AA3	32449	SA-7EXSD	313.6	96.2	3190	✓
400	3600	S449SS	460	RGZEESD	Ball ¹	1LE29724GA312AA3	39331	SA-7EXSD	422	95.8	3065	✓
400	3600	S449SS	575	RGZEESD	Ball ¹	1LE29724GA313AA3	39331	SA-7EXSD	337.6	95.8	3065	✓
400	1800	S449SS	460	RGZEESD	Ball	1LE29724GB312AA3	36427	SA-7EXSD	454	96.2	3240	✓
400	1800	S449LS	460	RGZEESD	Roller	1LE29724FB312AA3	36427	SA-7EXSD	454	96.2	3240	✓
400	1800	S449SS	575	RGZEESD	Ball	1LE29724GB313AA3	36427	SA-7EXSD	363.2	96.2	3240	✓
400	1800	S449LS	575	RGZEESD	Roller	1LE29724FB313AA3	36427	SA-7EXSD	363.2	96.2	3240	✓
C-Face, Horizontal, Footless												
1	3600	143TC	208-230/460	SD100	Ball	1LE23111AA114GA3	523	SD2	2.6	87.5	80	✓
1	3600	143TC	575	SD100	Ball	1LE23111AA113GA3	523	SD2	2.08	87.5	80	✓
1	1800	143TC	208-230/460	SD100	Ball	1LE23111AB214GA3	494	SD2	1.5	86.5	81	✓
1	1800	143TC	575	SD100	Ball	1LE23111AB213GA3	494	SD2	1.2	86.5	81	✓
1	1200	145TC	208-230/460	SD100	Ball	1LE23111AC314GA3	595	SD2	1.6	84	81	✓
1	1200	145TC	575	SD100	Ball	1LE23111AC313GA3	595	SD2	1.28	84	81	✓
1.5	3600	143TC	208-230/460	SD100	Ball	1LE23111AA214GA3	523	SD2	1.9	87.5	80	✓
1.5	3600	143TC	575	SD100	Ball	1LE23111AA213GA3	523	SD2	1.52	87.5	80	✓
1.5	1800	145TC	208-230/460	SD100	Ball	1LE23111AB314GA3	540	SD2	2.1	87.5	81	✓
1.5	1800	145TC	575	SD100	Ball	1LE23111AB313GA3	540	SD2	1.68	87.5	81	✓
1.5	1200	182TC	208-230/460	SD100	Ball	1LE23111CC114GA3	696	SD2	2.4	87.5	117	✓
1.5	1200	182TC	575	SD100	Ball	1LE23111CC113GA3	696	SD2	1.92	87.5	117	✓
2	3600	145TC	208-230/460	SD100	Ball	1LE23111AA314GA3	612	SD2	2.6	88.5	80	✓
2	3600	145TC	575	SD100	Ball	1LE23111AA313GA3	612	SD2	2.08	88.5	80	✓
2	1800	145TC	208-230/460	SD100	Ball	1LE23111AB414GA3	587	SD2	2.8	87.5	81	✓
2	1800	145TC	575	SD100	Ball	1LE23111AB413GA3	587	SD2	2.24	87.5	81	✓
2	1200	184TC	208-230/460	SD100	Ball	1LE23111CC314GA3	765	SD2	3	88.5	127	✓
2	1200	184TC	575	SD100	Ball	1LE23111CC313GA3	765	SD2	2.4	88.5	127	✓

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.
¹CW rotation facing opposite drive end.

Highlighted SD100 ratings exceeded NEMA Premium efficiency levels using Siemens copper rotor technology.

Severe Duty - TEFC Motors

SD100 / RGZEESD

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps*	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
C-Face, Horizontal, Footless - continued												
3	3600	182TC	208-230/460	SD100	Ball	1LE23111CA114GA3	714	SD2	3.8	89.5	121	✓
3	3600	182TC	575	SD100	Ball	1LE23111CA113GA3	714	SD2	3.04	89.5	121	
3	1800	182TC	208-230/460	SD100	Ball	1LE23111CB114GA3	676	SD2	4	90.2	125	✓
3	1800	182TC	575	SD100	Ball	1LE23111CB113GA3	676	SD2	3.2	90.2	125	
3	1200	213TC	208-230/460	SD100	Ball	1LE23112AC114GA3	911	SD2	4.3	90.2	170	✓
3	1200	213TC	575	SD100	Ball	1LE23112AC113GA3	911	SD2	3.44	90.2	170	
5	3600	184TC	208-230/460	SD100	Ball	1LE23111CA314GA3	859	SD2	6.2	90.2	123	✓
5	3600	184TC	575	SD100	Ball	1LE23111CA313GA3	859	SD2	4.96	90.2	123	
5	1800	184TC	208-230/460	SD100	Ball	1LE23111CB314GA3	773	SD2	6.7	90.2	129	✓
5	1800	184TC	575	SD100	Ball	1LE23111CB313GA3	773	SD2	5.36	90.2	129	
5	1200	215TC	208-230/460	SD100	Ball	1LE23112AC214GA3	1241	SD2	6.8	90.2	184	✓
5	1200	215TC	575	SD100	Ball	1LE23112AC213GA3	1241	SD2	5.44	90.2	184	
7.5	3600	213TC	208-230/460	SD100	Ball	1LE23112AA114GA3	1016	SD2	8.5	91.7	191	✓
7.5	3600	213TC	575	SD100	Ball	1LE23112AA113GA3	1016	SD2	6.8	91.7	191	
7.5	1800	213TC	208-230/460	SD100	Ball	1LE23112AB114GA3	1011	SD2	9.5	92.4	198	✓
7.5	1800	213TC	575	SD100	Ball	1LE23112AB113GA3	1011	SD2	7.6	92.4	198	
7.5	1200	254TC	208-230/460	SD100	Ball	1LE23112BC114GA3	1653	SD2	10.5	92.4	336	✓
7.5	1200	254TC	575	SD100	Ball	1LE23112BC113GA3	1653	SD2	8.4	92.4	336	
10	3600	215TC	208-230/460	SD100	Ball	1LE23112AA214GA3	1171	SD2	11.5	91.7	196	✓
10	3600	215TC	575	SD100	Ball	1LE23112AA213GA3	1171	SD2	9.2	91.7	196	
10	1800	215TC	208-230/460	SD100	Ball	1LE23112AB214GA3	1197	SD2	12.5	92.4	206	✓
10	1800	215TC	575	SD100	Ball	1LE23112AB213GA3	1197	SD2	10	92.4	206	
10	1200	256TC	208-230/460	SD100	Ball	1LE23112BC214GA3	1988	SD2	13.5	92.4	337	✓
10	1200	256TC	575	SD100	Ball	1LE23112BC213GA3	1988	SD2	10.8	92.4	337	
15	3600	254TC	208-230/460	SD100	Ball	1LE23112BA114GA3	1605	SD2	17	92.4	309	✓
15	3600	254TC	575	SD100	Ball	1LE23112BA113GA3	1605	SD2	13.6	92.4	309	
15	1800	254TC	208-230/460	SD100	Ball	1LE23112BB114GA3	1580	SD2	19	93	297	✓
15	1800	254TC	575	SD100	Ball	1LE23112BB113GA3	1580	SD2	15.2	93	297	
20	3600	256TC	208-230/460	SD100	Ball	1LE23112BA214GA3	1955	SD2	23	92.4	333	✓
20	3600	256TC	575	SD100	Ball	1LE23112BA213GA3	1955	SD2	18	92.4	333	
20	1800	256TC	208-230/460	SD100	Ball	1LE23112BB214GA3	1934	SD2	25	93.6	341	✓
20	1800	256TC	575	SD100	Ball	1LE23112BB213GA3	1934	SD2	20	93.6	341	

*FL Amps are at 460V or 575V depending on the voltage rating of the motor.

Highlighted SD100 ratings exceeded NEMA Premium efficiency levels using Siemens copper rotor technology.