

Hazardous Duty - P-Base Motors

Vertical Solid Shaft - In-Line Thrust

Class I, Group D, Division 1

RGZZVILESD

P-base in-line vertical solid shaft high efficiency explosion-proof motors are UL® listed for use in Class I, Group D, Division 1 hazardous areas and are ideal for applications such as centrifugal and turbine pumps.

Performance Specifications

- 3 to 250 HP
- 1.0 service factor, 40°C ambient
- T2D temperature code
- Continuous thrust:
 - Up: 785 to 3,735 lbs.
 - Down: 735 to 1,550 lbs.
 - Radial: 930 to 2,140 lbs.
- 3600, 1800, 1200, or 900 RPM
- 3 phase, 60 Hz; 230/460 volt operation under 25 HP, 460 volt 25 HP and above; 200 & 575 volt available
- Class F insulation, Class B temperature rise
- NEMA design B, continuous duty
- 182LP through 449LP frame

Features for Long Life

Frame & End Shields – These motors feature a cast iron frame and end shields for exceptional structural integrity. A drive end sintered condensation drain, drip cover and lifting lugs are included.

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.

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, also lowering stator losses.

Insulation – Proprietary Class F non-hygroscopic insulation system with NEMA 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. Two series-connected normally closed Class B thermostats are supplied as standard.

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, drive end is open ball bearing (182LP – 256LP frames), double-shielded ball bearing (284LP – 449LP frames); opposite drive end is a duplex angular contact thrust bearing (143LP – 449LP frames) with cast iron caps. Alemite grease fittings on the inlets, and pipe plugs on the relief ports for ease of routine maintenance. Thrust limits are based on an L10 life of 2 years.



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 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.



Specifications table begins on the next page →

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Stock/Modifiable

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HP	RPM	Frame	Voltage	Type	Cont. Thrust 2 Yr. Life Min.			Part Number	List Price \$	Multiplier Symbol	FL Amps 460V	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
					Up (lbs)	Down (lbs)	Rad. (lbs)							
3	3600	182LP	230/460	RGZZVILESD	785	735	930	1PC28611DA416TG3	1450	SA-7EN	3.6	85.5	130	✓
3	1800	182LP	230/460	RGZZVILESD	980	910	1160	1PC28611DB416TG3	1418	SA-7EN	3.9	86.5	135	✓
3	1200	213LP	230/460	RGZZVILESD	1115	1055	1320	1PC28612AC516TG3	1667	SA-7EN	4	86.5	175	✓
5	3600	184LP	230/460	RGZZVILESD	785	735	930	1PC28611DA516TG3	1671	SA-7EN	5.8	86.5	135	✓
5	1800	184LP	230/460	RGZZVILESD	980	910	1160	1PC28611DB516TG3	1505	SA-7EN	6.5	86.5	135	✓
5	1200	215LP	230/460	RGZZVILESD	1120	1050	1320	1PC28612AC616TG3	2270	SA-7EN	6.8	87.5	195	✓
7.5	3600	213LP	230/460	RGZZVILESD	785	735	930	1PC28612AA516TG3	1989	SA-7EN	8.8	87.5	175	✓
7.5	1800	213LP	230/460	RGZZVILESD	980	910	1160	1PC28612AB516TG3	2038	SA-7EN	9.5	88.5	175	✓
7.5	1200	254LP	230/460	RGZZVILESD	1350	1240	1600	1PC28612BC516TG3	2619	SA-7EN	9.8	88.5	295	✓
10	3600	215LP	230/460	RGZZVILESD	790	730	930	1PC28612AA616TG3	2237	SA-7EN	12	88.5	195	✓
10	1800	215LP	230/460	RGZZVILESD	985	905	1160	1PC28612AB616TG3	2237	SA-7EN	12.5	88.5	195	✓
10	1200	256LP	230/460	RGZZVILESD	1360	1230	1600	1PC28612BC616TG3	3269	SA-7EN	13	88.5	365	✓
15	3600	254LP	230/460	RGZZVILESD	945	855	1100	1PC28612BA516TG3	2509	SA-7EN	17	88.5	295	✓
15	1800	254LP	230/460	RGZZVILESD	1185	1075	1400	1PC28612BB516TG3	2956	SA-7EN	18.7	90.2	295	✓
15	1200	284LPH	230/460	RGZZVILESD	1975	1785	2120	1PC28612EC116TG3	4136	SA-7EN	20	89.5	410	✓
20	3600	256LP	230/460	RGZZVILESD	950	850	1100	1PC28612BA616TG3	3073	SA-7EN	23	88.5	365	✓
20	1800	256LP	230/460	RGZZVILESD	1200	1060	1400	1PC28612BB616TG3	3254	SA-7EN	26	90.2	365	✓
20	1200	286LPH	230/460	RGZZVILESD	1990	1770	2120	1PC28612EC416TG3	4753	SA-7EN	26	90.2	460	✓
25	3600	284LPH	460	RGZZVILESD	1460	1320	1475	1PC28612EA112TG3	3660	SA-7EN	29	90.2	410	✓
25	1800	284LPH	460	RGZZVILESD	1725	1535	1850	1PC28612EB112TG3	3993	SA-7EN	29	91.7	410	✓
25	1200	324LP	460	RGZZVILESD	2010	1750	1875	1PC28613AC512TG3	5598	SA-7EN	33	91	589	✓
30	3600	286LPH	460	RGZZVILESD	1470	1310	1475	1PC28612EA412TG3	3907	SA-7EN	34	90.2	460	✓
30	1800	286LPH	460	RGZZVILESD	1740	1520	1850	1PC28612EB412TG3	4333	SA-7EN	35	91.7	460	✓
30	1200	326LP	460	RGZZVILESD	2035	1725	1875	1PC28613AC612TG3	6143	SA-7EN	39	91	589	✓
40	3600	324LP	460	RGZZVILESD	1490	1290	1600	1PC28613AA512TG3	5440	SA-7EN	45	92.4	589	✓
40	1800	324LP	460	RGZZVILESD	1770	1490	1650	1PC28613AB512TG3	5190	SA-7EN	47	92.4	589	✓
40	1200	364LP	460	RGZZVILESD	2540	2140	2120	1PC28613CC512TG3	8068	SA-7EN	52	92.4	865	✓
50	3600	326LP	460	RGZZVILESD	1505	1275	1600	1PC28613AA612TG3	6008	SA-7EN	55	92.4	589	✓
50	1800	326LP	460	RGZZVILESD	1785	1475	1650	1PC28613AB612TG3	5834	SA-7EN	58	92.4	589	✓
50	1200	365LP	460	RGZZVILESD	2560	2120	2120	1PC28613CC612TG3	9104	SA-7EN	66	92.4	915	✓
60	3600	364LP	460	RGZZVILESD	1840	1510	1475	1PC28613CA512TG3	7757	SA-7EN	68	92.4	865	✓
60	1800	364LP	460	RGZZVILESD	2330	2060	1850	1PC28613CB512TG3	7370	SA-7EN	71	92.4	865	✓
60	1200	404LP	460	RGZZVILESD	2620	2060	2120	1PC28614AC512TG3	10268	SA-7EN	74	93	1290	✓

Introduction

General Purpose

High Efficient

Severe Duty

High Efficient

Multispeed

High Efficient

Hazardous Duty

High Efficient

Definite Purpose

High Efficient

P-Base Vertical

NEMA PREMIUM

General Purpose

NEMA PREMIUM

Severe Duty

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					Up (lbs)	Down (lbs)	Rad. (lbs)							
75	3600	365LP	460	RGZZVILESD	1850	1500	1475	1PC28613CA612TG3	9450	SA-7EN	85	93	915	✓
75	1800	365LP	460	RGZZVILESD	2345	1945	1850	1PC28613CB612TG3	8857	SA-7EN	87	93	915	✓
75	1200	405LP	460	RGZZVILESD	2660	2020	2120	1PC28614AC612TG3	11636	SA-7EN	93	93.6	1335	
100	3600	405LP	460	RGZZVILESD	1905	1445	1475	1PC28614AA612TG3	11703	SA-7EN	108	93	1335	✓
100	1800	405LP	460	RGZZVILESD	2445	1845	1850	1PC28614AB612TG3	10300	SA-7EN	113	93.6	1335	✓
100	1200	444LP	460	RGZZVILESD	2780	1900	2120	1PC28614JC112TG3	15216	SA-7EN	117	93.6	1740	
125	1800	444LP	460	RGZZVILESD	2530	1760	1850	1PC28614JB112TG3	13170	SA-7EN	143	94.1	1740	
125	1200	445LP	460	RGZZVILESD	2850	1830	2120	1PC28614JC212TG3	18957	SA-7EN	144	93.6	1930	
150	1800	445LP	460	RGZZVILESD	2590	1700	1850	1PC28614JB212TG3	15400	SA-7EN	170	94.5	1930	
150	1200	447LP	460	RGZZVILESD	2945	1735	2120	1PC28614JC312TG3	21772	SA-7EN	170	94.1	2450	
200	1800	447LP	460	RGZZVILESD	2650	1645	1850	1PC28614JB312TG3	20765	SA-7EN	225	94.5	2450	
200	1200	449LP	460	RGZZVILESD	3040	1640	2120	1PC28614JC512TG3	21315	SA-7EN	226	94.1	2650	
250	1800	449LP	460	RGZZVILESD	2710	1590	1850	1PC28614JB512TG3	21661	SA-7EN	281	94.5	2650	
250	1200	449LP	460	RGZZVILESD	3735	1550	2120	1PC28614JC612TG3	22402	SA-7EN	280	94.1	2650	