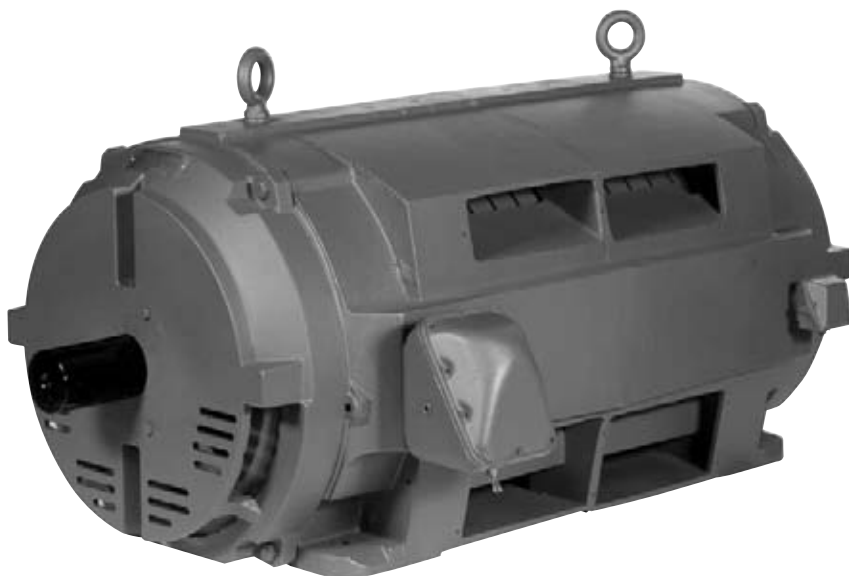


E-LINE

LARGE AC MOTORS

E-Line Duty Master
Large AC Motors

Reliance has been supplying Large Frame A-C motors to industry for more than 50 years. For the last three decades, the E-LINE has served as the platform for high reliability due to key construction features rarely found in such a wide variety of frame sizes, enclosures and voltages.



E-Line Features Include:

- 300 through 1500 HP
- Rigid Cast-Iron Frames for consistent design and long life.
- Cast-Iron End Brackets with concentric rabbeted frame fits to hold true alignment.
- Shafts designed and sized for 10X rated motor torque.
- C5 grade lamination steel
- Matched Stators and Rotors to reduce current densities for longer life and better efficiency.
- A renowned Class F/H form wound stator winding insulation system that is backed by IEEE-429 laboratory motorette testing and over 20 years of unequalled field service, that can routinely pass water immersion testing, and survive the harshest environments.
- The famous Reliance PLS grease lubrication system for anti-friction bearing motors.
- When selected, sleeve bearings are supplied with split bearing and bracket construction, as well as dual one piece tapered oil rings with a bull's eye window to view them in operation, anti-rotation locking devices, an oil level sight gauge and air pressure equalization ports.

E-Line Configurations:

- ODP, WP-I, WP-II, TEFC, TEFC-XP, TEAAC, TEWAC, DPFV, PIPO and other enclosures,
- 380, 400, 415, 440, 460, 575, 2300, 4000, 4160, 4800, 6000, 6300, 6600 and other voltages

- 2, 4, 6, 8, 10, 12, & 14 pole designs,
- 50 hertz, 60 Hertz, and Variable Frequency (inverter duty) designs
- High Energy Efficiency (EE) and Premium Energy Efficiency (LXE) designs
- Standard, Low Noise and Super Low Noise enclosures
- NEMA, IEEE-841 and API-541 vibration compliant designs
- Cast Aluminum and Fabricated Copper rotor designs
- Ball/Ball, Roller/Ball and Hydrodynamic Sleeve Bearing configurations

These user selectable features are just the basic parameters and hundreds of various modifications and options are also available. The E-LINE follows NEMA standards for frame sizes and it includes the following frame/enclosure combinations:

- 5006, 5008, 5010, 5012, 5808, 5810, 5812 frames for ODP, WP-I & WP-II enclosures
- 5808, 5810, 5812 for TEAAC and TEWAC motor enclosures
- 5010, 5012, & 5810 for TEFC enclosures (currently available only as Vertical P-base or XP-Explosion Proof designs)
- NEMA derivative 7111 frame for ODP, WP-I and WP-II in larger HP sizes

Reliance verifies that quality is built into the motors our customers specify, with testing of electrical components and finished motors that exceed both minimum industry

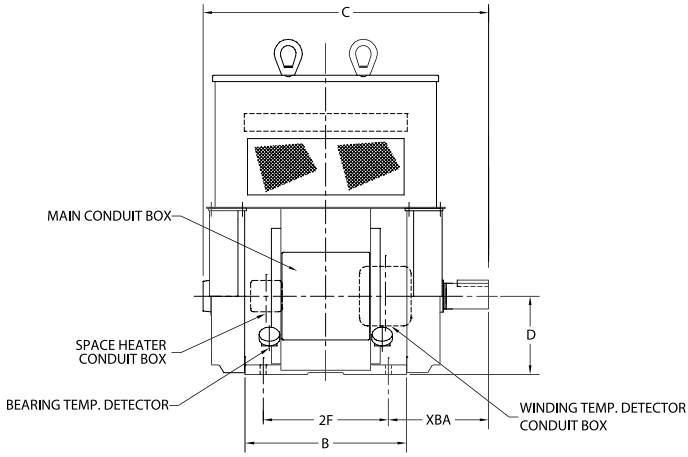
standards and customer requirements. E-LINE motors receive the benefit of testing:

- beginning with go/no-go tests of components and materials at our receiving dock
- SPC and Six-Sigma type manufacturing controls
- Three winding surge tests prior to VPI processing
- Rotor balance to levels better-than minimum requirements
- Routine (commercial) tests on rigid, isolated seismic base, including a three phase locked rotor test
- Complete dynamometer testing (when specified) to verify temperature rise and "real" efficiency (Method B)

Reliance knows that the pumps, compressors, fans, conveyors and other equipment use by our customers are critical to their successes, and that the Large A-C motors driving them cannot be taken for granted. You'll find our E-LINE motors have been chosen for their dependability, performance and quality by the most discriminating customers in the world, a reputation that has been earned around the globe due to Reliance's commitment to providing the optimum value for your motor investment.

- ✓ Power
- ✓ Water Treatment
- ✓ Pulp & Paper
- ✓ Aggregate
- Unit Handling
- ✓ Cement
- ✓ Nuclear
- ✓ Petro-Chem
- Food & Beverage
- ✓ Mining
- Entertainment

E-LINE TYPICAL DIMENSIONAL REFERENCE

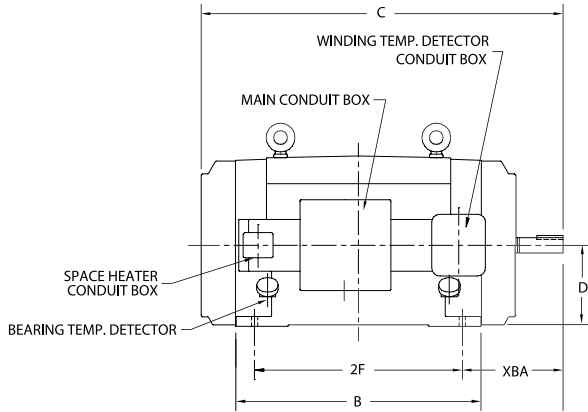


WPII enclosures - Anti-Friction Bearings

Frame	Measured In	C	B	2F	D	XBA	Approx.Wt. Lbs.
E5006	Inches	45.12	25.75	20.00	12.50	15.50	3300
E5008	Inches	50.12	30.75	25.00	12.50	15.50	3900
E5010	Inches	57.12	37.75	32.00	12.50	15.50	4900
E5012	Inches	65.12	45.75	40.00	12.50	15.50	5500
E5808	Inches	58.00	33.50	28.00	14.50	17.00	6700
E5810	Inches	66.00	41.50	36.00	14.50	17.00	7700
E5812	Inches	75.00	50.50	45.00	14.50	17.00	9000
E7111	Inches	86.93	61.00	55.00	17.75	19.31	14,880

Note: Auxiliary conduit boxes shown for reference only.

WPI enclosures - Anti-Friction Bearings



Frame	Measured In	C	B	2F	D	XBA	Approx.Wt. Lbs.
E5006	Inches	43.88	25.00	20.00	12.50	15.50	2900
E5008	Inches	48.88	30.75	25.00	12.50	15.50	3200
E5010	Inches	55.88	37.75	32.00	12.50	15.50	4200
E5012	Inches	63.88	45.75	40.00	12.50	15.50	5200
E5808	Inches	54.88	33.50	28.00	14.50	17.00	5000
E5810	Inches	62.88	41.50	36.00	14.50	17.00	6000
E5812	Inches	71.88	50.50	45.00	14.50	17.00	7000
E7111	Inches	84.31	61.00	55.00	17.75	19.31	11,200

Note: Auxiliary conduit boxes shown for reference only.

TYPICAL HP-FRAME CAPABILITY OF E-LINE WP-II MOTORS (1.0SF @ 4000V)

HP @ 60 Hz	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000
3600							5006	5008	5010	5012	5808	5810	5812	5814	5816	5818	5820	5822	5824	5826	5828	5830	5832	5834	5836	5838	5840	5842	5844	5846	5848	5850	5852	5854	5856	5858	5860	5862	5864	5866	5868	5870	5872	5874	5876	5878	5880	5882	5884	5886	5888	5890	5892	5894	5896	5898	5900	
1800							5006	5008	5010	5012	5808	5810	5812	5814	5816	5818	5820	5822	5824	5826	5828	5830	5832	5834	5836	5838	5840	5842	5844	5846	5848	5850	5852	5854	5856	5858	5860	5862	5864	5866	5868	5870	5872	5874	5876	5878	5880	5882	5884	5886	5888	5890	5892	5894	5896	5898	5900	
1200							5006	5008	5010	5012	5808	5810	5812	5814	5816	5818	5820	5822	5824	5826	5828	5830	5832	5834	5836	5838	5840	5842	5844	5846	5848	5850	5852	5854	5856	5858	5860	5862	5864	5866	5868	5870	5872	5874	5876	5878	5880	5882	5884	5886	5888	5890	5892	5894	5896	5898	5900	
900							5006	5008	5010	5012	5808	5810	5812	5814	5816	5818	5820	5822	5824	5826	5828	5830	5832	5834	5836	5838	5840	5842	5844	5846	5848	5850	5852	5854	5856	5858	5860	5862	5864	5866	5868	5870	5872	5874	5876	5878	5880	5882	5884	5886	5888	5890	5892	5894	5896	5898	5900	
HP @ 60 Hz	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000



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