

HARSH ENVIRONMENT

MOTORS

Extra Tough XEX for Harsh Environments

Reliance XEX motors were developed to last longer in severe atmospheres associated with Paper Making, Petrochemical Processing, Metals Conversion and other tough manufacturing environments. XEX motors run year after year in these demanding applications with minimum expensive downtime. Decades of dependable operation have made XEX the motor of choice for harsh environments of all kinds.



Features:

- Enclosure IP Code: Totally Enclosed-IP54
- Definitions: Premium efficient extra-tough motors that exceed EPA efficiency levels.
- Warranty: 36 months from date of Manufacture / 24 From date of Installation
- Nameplate Certifications: "CE, CSA, UR, IEEE45/ABS

Electrical Characteristics:

- Phase 3
- Frequency 60hz
- Ambient 40 degree C
- Duty Cycle Continuous
- Insulation Class F
- Service factor 1.15
- Temperature Rise Class B

Application Information:

- Extra Tough Duty motors are built with the rugged cast iron construction of the Mill & Chemical Duty motors plus additional key features for long life in moist, contaminated environments such as chemical plants, petroleum refineries and paper mills.

Construction Features 140T Frames:

- Materials: Cast iron frame, conduit box, fan shroud and end shields.
- Conduit Box: Oversized, Top mounted with F1 & F2 lead outlets.
- Bearing Type: Double shielded regreasable ball bearings with grease relief fittings.
- Bearing Protection: Non-metallic V-ring shaft slinger on both ends of the motor,
- Shaft Material: High Strength Carbon Steel shaft
- Nameplate Material: Stainless steel
- Drain type & location: T-drain in drive end shield. Weep hole in opposite drive end shield.

Construction Features 180T-449T Frames:

- Materials: Cast Iron frame, end shields, conduit box, fan cover and inner caps.
- Conduit Box: F1 location, Diagonally split, neoprene gasketed, rotatable in 90 degree increments and NPT threaded lead hole. UL listed clamp type ground lug in box.
- Bearing Type: Regreasable, open ball bearings with PLS.

- Bearing Protection: Non-metallic V-ring shaft slinger on drive end.
- Shaft Material: High strength carbon steel
- Nameplate Material: Stainless steel
- Drain type & location: Stainless Steel T-drains mounted in both end shields.

Additional Features:

- The motor's stator and rotor are completely epoxy coated for corrosion protection.
- Extra Tough motors are provided with alemite grease fittings for easy bearing maintenance.
- Silicone rubber sealed fits provide superior protection against contaminants entering the motor body.
- PLS (Positive Lubrication System) Patented lubrication system that assures lubrication throughout the bearing.
- Inverter capable per NEMA MG1-1998, Part 31, Section IV.

✓ Aggregate/Cement

Food

✓ Mining

✓ Forest/Paper

✓ Petro/Chem

Unit/Baggage Handling

✓ HVAC/Industrial Air Handling

✓ Environmental/Fluid Power

✓ Automotive

✓ Metals

Nuclear

HP	RPM	Frame Size	FLA	Locked Amps	CODE	NOM eff	MIN eff	Power Factor Full Load	FL Torque LB. FT.	BD Torque LB. FT.	PUTorque LB. FT.	LR Torque LB. FT.
3	3600	182T	3.6	30	K	88.5	87.5	88.3	4.48	16.4	7.84	8.74
	1800	182T	3.8	31	K	88.5	87.5	83.5	8.97	31.4	18.8	19.3
	1200	213T	4.2	31	K	89.5	88.5	74.8	13.4	45.3	22.5	23.9
5	3600	L215T	4.7	25.1	H	85.5	84	70.4	18.3	48.6	29.6	29.6
	1800	L184T	6.1	45	J	88.5	87.5	86.9	15	43	28.6	31.1
	1200	L215T	6.8	46	J	89.5	88.5	76.9	22.5	69.2	36.1	38.3
7.5	3600	254T	7.3	45	J	89.5	88.5	71.6	29.8	94	39	45
	1800	213T	8.5	63	H	90.2	89.5	91.5	11.2	33.6	19.6	20.3
	1200	254T	9.6	61	H	90.2	89.5	81	33.6	90.9	50	56
10	3600	256T	10.5	62	H	90.2	89.5	74.3	44.8	123	50	60
	1800	215T	11.1	81	H	91	90.2	93.6	15	45.3	25.4	27.7
	1200	L215T	11.9	79.9	H	90.2	89.5	87.2	29.9	81.7	48.9	56.9
15	3600	256T	12.5	78	G	91	90.2	82.2	44.8	119	67.2	73.9
	1800	284T	13.6	80	H	90.2	89.5	76	59.4	154	91	96
	1200	254T	16.8	116	G	91.7	91	90.8	22.3	64.7	36.8	41.3
20	3600	254T	18.1	116	G	92.4	91.7	83.9	44.6	123	80.3	93.7
	1800	284T	18.7	110	G	92.4	91.7	81.2	66.7	170	118	135
	1200	286T	20.1	116	G	90.2	89.5	77	89.2	225	135	145
25	3600	256T	22.3	145	G	91.7	91	91.2	29.8	82.8	47.9	56.6
	1800	256T	24	145	G	92.4	91.7	84.3	59.6	160	112	128
	1200	286T	24.8	143	G	92.4	91.7	81.6	89.1	225	153	179
30	3600	324T	26.5	140	G	91	90.2	77.2	119	270	152	160
	1800	284TS	28.1	182	G	93	92.4	89.2	37	101	52	57
	1200	284T	29.7	181	G	93.6	93	84.1	74.1	185	131	152
40	3600	324T	29.8	173	F	93	92.4	84.3	111	257	182	198
	1800	286TS	33.8	215	G	93	92.4	89.1	44.5	125	60.1	66.8
	1200	286T	36.1	217	G	93.6	93	83.1	89.1	250	169	192
50	3600	326T	35.8	216	G	93.6	93	83.7	133	313	228	273
	1800	324TS	45.2	298	G	94.1	93.6	88	59	159	92.1	114
	1200	364T	47.7	287	G	94.1	93.6	83.3	118	290	180	220
60	3600	364T	49.4	290	G	94.1	93.6	80.5	177	430	241	280
	1800	326TS	56.3	372	G	94.1	93.6	88.2	73.8	199	118	147
	1200	326T	58.8	355	G	94.5	94.1	84.2	148	378	240	285
75	3600	365T	61.7	345	F	94.1	93.6	80.6	221	510	295	340
	1800	364TS	66.3	435	G	95	94.5	89.2	88.4	250	115	138
	1200	364T	68	430	G	95	94.5	87	177	445	285	320
100	3600	404T	69	425	G	95	94.5	85.8	265	655	385	422
	1800	365TS	81.9	542	G	95	94.5	90.1	111	313	150	185
	1200	365T	86	542	G	95	94.5	86	221	560	370	425
125	3600	405T	86.9	542	G	95	94.5	85	332	810	520	550
	1800	405TS	107	725	G	95	94.5	91.8	147	406	220	249
	1200	405T	112	725	G	95.4	95	87.4	295	735	400	445
150	3600	444T	115	725	G	95	94.5	85.6	442	1100	620	705
	1800	444TS	140	900	F	95.8	95.4	87.2	183	511	232	240
	1200	444T	139	907	G	95.8	95.4	87.9	368	955	525	544
200	3600	445T	143	907	G	95.4	95	85.8	551	1522	680	756
	1800	445TS	163	1075	F	96.2	95.8	89.8	220	630	290	340
	1200	445T	165	1085	G	96.2	95.8	88.5	441	1165	660	692
250	3600	447T	174	1060	G	96.2	95.8	83.9	661	1480	1090	1500
	1800	447TS	219	1410	G	96.2	95.8	88.7	294	815	390	450
	1200	447T	218	1410	G	96.2	95.8	89.3	589	1525	855	870
300	3600	449T	223	1464	G	96.2	95.8	87.3	884	2280	1242	1357
	1800	449TS	263	1735	F	96.2	95.8	92.4	367	966	502	624
	1200	449T	273	1820	G	96.2	95.8	89	736	1816	1052	1160
350	3600	449T	283	1827	G	96.2	95.8	86	1104	2759	1531	1744
	1800	449T	319	2199	G	95.8	95.4	91.6	441	1221	678	745
	1200	449T	327	2200	G	96.5	96.2	89	882	2285	1240	1300
350	3600	449T	342	2105	G	95.4	95	86	1326	3232	1673	2085
	1800	449TS	373	2499	G	95.8	95.4	91.3	514	1355	734	840
350	1800	449T	387	2476	G	96.2	95.8	88	1031	2681	1449	1598

www.baldor.com www.ptplace.com www.dodge-pt.com www.reliance.com



Baldor Electric Company Headquarters

P.O. Box 2400, Fort Smith, AR 72902-2400 U.S.A., Ph: (1) 479.646.4711, Fax (1) 479.648.5792, International Fax (1) 479.648.5895

Baldor - DODGE/Reliance

6040 Ponders Court, Greenville, SC 29615-4617 U.S.A., Ph: (1) 864.297.4800, FAX: (1) 864.281.2433

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