



EXPLOSION-PROOF MOTORS

SINGLE PHASE

EXPLOSION-PROOF FOR HAZARDOUS LOCATIONS

Underwriters Laboratories and
Canadian Standards Association Listed

General Specifications:

These explosion proof motors are designed and approved for application in hazardous environments having certain explosive gases or materials present.

Features:

Rugged mechanical construction meeting all requirements for safety. UL and CSA listed.

Double shielded, pre-lubricated ball bearings are standard. All motors have inherent automatic overload protection. NEMA 1.0 Service Factor except as noted. Explosion-proof conduit box included at no extra cost.

Capacitors on single phase designs are mounted inside the motor frame.



Application Notes:

These motors must be applied in accordance with the National Electrical Code, Article #500. A partial listing of explosive agents is noted below. Consult NFPA Publication 497M for a complete listing. No LEESON motors are listed for Class I, Group A or B. Please note subheads above each column for qualifications of LEESON motors.



Class I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume.

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene.

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene.

Class II

Group E: Aluminum, magnesium and other metal dusts with similar characteristics.

Group F: Carbon black, coke or coal dust.

Group G: Flour, starch or grain dust.

**EXCEPT AS NOTED, STEEL FRAME
EXPLOSION-PROOF MOTORS ARE NOT
INVERTER-RATED AND MUST NOT
BE USED WITH AN INVERTER**

CAST IRON EXPLOSION-PROOF – SEE PAGE 34

Catalogue numbers in blue are NEW items.

SINGLE PHASE • RIGID BASE

CLASS I, GROUPS C & D—CLASS II, GROUPS F & G • W/CONDUIT BOX

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (in.)
1/3	1725	56	111074 ●	\$562	A	35	115/208-230	Auto.	2.9	63.0	12.38
1/2	1725	56H	111084 □	568	A	41	115/208-230	Auto.	4.0	65.0	13.97
3/4	1725	56H	110934 □	577	A	46	115/208-230	Auto.	5.4	70.0	14.47
1	1725	56H	110961 □	628	A	47	115/208-230	Auto.	6.4	75.0	14.47

Explosion Proof Motors have 1.0 Service Factor.

SINGLE PHASE • C FACE • RIGID BASE

CLASS I, GROUPS C & D—CLASS II, GROUPS F & G • W/CONDUIT BOX

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (in.)
1/3	3450	56C	116605	\$581	A	39	115/208-230	Auto.	2.6	65.0	13.46
	1725	56C	112105 ^d	692	A	46	115/208-230	Auto.	2.9	65.0	12.50
	1725	56C	116606	574	A	42	115/208-230	Auto.	3.2	62.0	12.96
	1140	56HC	116607 □	628	A	45	115/208-230	Auto.	3.9	58.0	14.96
1/2	3450	56HC	116608 □	579	A	36	115/208-230	Auto.	3.8	63.0	13.46
	1725	56HC	111094 □ ^d	722	A	45	115/208-230	Auto.	4.0	58.0	14.09
	1725	56HC	116609 □	605	A	46	115/208-230	Auto.	4.0	66.0	13.96
	1140	56HC	116610 □	664	A	56	115/208-230	Auto.	4.7	64.0	15.46
3/4	3450	56HC	116611 □	620	A	41	115/208-230	Auto.	5.0	65.0	13.96
	1725	56HC	112103 □ ^d	766	A	51	115/208-230	Auto.	5.4	65.0	14.59
	1725	56HC	116612 □	634	A	51	115/208-230	Auto.	5.4	70.0	14.46
1	3450	56HC	116613 □	688	A	50	115/208-230	Auto.	2.6	70.0	14.46
	1725	56HC	112104 □ ^d	791	A	55	115/208-230	Auto.	6.4	66.0	15.09
	1725	56HC	116614 □	635	A	54	115/208-230	Auto.	6.4	75.0	14.96
1½	3450	56HC	116615 □	690	A	45	115/208-230	Auto.	8.5	72.0	14.96
2	3450	56HC	116616 □	790	A	58	115/208-230	Auto.	10.5	74.0	15.96

Explosion Proof Motors have 1.0 Service Factor.

SINGLE PHASE • C FACE LESS BASE

CLASS I, GROUPS C & D—CLASS II, GROUPS F & G • W/CONDUIT BOX

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (in.)
1/3	3450	56C	111095 ●	\$694	A	38	115/208-230	Auto.	2.1	65.0	12.87
	1725	56C	111075 ●	563	A	41	115/208-230	Auto.	2.9	70.0	12.37
1/2	3450	56C	111098	722	A	42	115/208-230	Auto.	3.6	58.0	13.59
	3450	56J	116188	529	A	35	115/208-230	Auto.	3.8	63.0	13.96
	1725	56C	111085	590	A	45	115/208-230	Auto.	4.0	65.0	13.96
3/4	3450	56C	111097	760	A	40	115/208-230	Auto.	5.0	65.0	14.09
	3450	56J	116186	555	A	40	115/208-230	Auto.	5.0	64.0	14.46
	1725	56C	111086	698	A	50	115/208-230	Auto.	5.4	70.0	14.46
1	3450	56C	111096	780	A	49	115/208-230	Auto.	6.0	66.0	14.59
	3450	56J	116185	584	A	49	115/208-230	Auto.	6.0	70.0	14.96
	1725	56C	110852	700	A	53	115/208-230	Auto.	6.4	75.0	14.46
1½	3450	56C	114424	893	A	37	115/208-230	Auto.	8.5	72.0	14.97
	3450	56J	116183	624	A	54	115/208-230	Auto.	8.5	72.0	15.46
2	3450	56C	114425	957	A	46	115/208-230	Auto.	10.5	74.0	15.97
	3450	56J	116181	679	A	54	115/208-230	Auto.	10.5	74.0	16.46

Explosion Proof Motors have 1.0 Service Factor.

- These motors are totally enclosed, non-ventilated — Others are fan cooled.
- Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.
- ▲ These motors are satisfactory for operation on 50 Hz power supply at full rated horsepower.
- d To be discontinued when present stock is depleted.

**EXPLOSION-PROOF
FOR HAZARDOUS LOCATIONS**

Underwriters Laboratories and Canadian Standards Association Listed

General Specifications:

These explosion proof motors are designed and approved for application in hazardous environments having certain explosive gases or materials present.



Features:

Rugged mechanical construction meeting all requirements for safety. UL and CSA listed.

Double shielded, pre-lubricated ball bearings are standard. All motors have inherent automatic overload protection. NEMA 1.0 Service Factor except as noted.

Explosion-proof conduit box included at no extra cost.

Application Notes:

These motors must be applied in accordance with the National Electrical Code, Article #500. A partial listing of explosive agents is noted below. Consult NFPA Publication 497M for a complete listing. No LEESON motors are listed for Class I, Group A or B. Please note subheads above each column for qualifications of LEESON motors.

Class I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume.

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene.

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene.

Class II

Group E: Aluminum, magnesium and other metal dusts with similar characteristics.

Group F: Carbon black, coke or coal dust.

Group G: Flour, starch or grain dust.



- These motors are totally enclosed, non-ventilated — Others are fan cooled.
- Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.
- ▲ These motors are satisfactory for operation on 50 Hz power supply at full rated horsepower.
- ★ These motors have a 1.15 S.F.
- # These motors are inverter rated a suitable for use with an inverter. Others are not!

THREE PHASE • RIGID BASE

CLASS I, GROUPS C & D—CLASS II, GROUPS F & G • W/CONDUIT BOX

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	FL Amps 230V	% FL Eff.	"C" Dim. (in.)
1/3	1725	56	111932●▲	\$693	A	28	208-230/460	Auto.	1.3	76.0	10.88
	1140	56H	111940●▲	747	A	36	208-230/460	Auto.	1.5	70.0	12.38
1/2	3450	56	111934●▲	795	A	36	208-230/460	Auto.	1.6	76.0	12.38
	1725	56	111929●▲	713	A	32	208-230/460	Auto.	1.7	75.0	11.38
	1140	56H	111938□▲	793	A	46	208-230/460	Auto.	2.0	71.0	13.97
3/4	3450	56	111937▲	798	A	38	208-230/460	Auto.	2.4	72.0	12.97
	1725	56	111923▲	762	A	42	208-230/460	Auto.	2.6	75.0	12.47
1	3450	56	111942▲	799	A	38	208-230/460	Auto.	3.2	77.1	12.97
	1725	56H	111922□▲	794	A	45	208-230/460	Auto.	3.4	78.0	13.97
1½	3450	143T	G120489▲	851	A	46	208-230/460	Auto.	4.0	82.5	14.41
	1740	145T	G120490	810	A	56	208-230/460	Auto.	4.4	84.0	14.41
	1740	145T	120524	810	A	52	575	Auto.	1.8	80.0	14.91
2	3450	145T	G120491▲	893	A	46	208-230/460	Auto.	5.2	84.0	15.41
	1740	145T	G120391	850	A	56	208-230/460	Auto.	6.0	84.0	16.91
	1740	145T	G120523	850	A	59	575	Auto.	2.0	81.0	15.91
3	3450	145T	G120387	936	A	60	208-230/460	Auto.	7.4	85.5	15.91

Explosion Proof Motors have 1.0 Service Factor.

THREE PHASE • C FACE WITH BASE

CLASS I, GROUPS C & D—CLASS II, GROUPS F & G • W/CONDUIT BOX

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	FL Amps 230V	% FL Eff.	"C" Dim. (in.)
1/3	3450	56C	114625●▲	\$799	A	41	208-230/460	Auto.	1.0	68.0	11.87
	1725	56C	111214●	700	A	33	575	Auto.	0.5	68.0	12.00
	1725	56C	114626●▲	700	A	33	208-230/460	Auto.	1.3	76.0	12.00
1/2	3450	56C	114627●▲★	811	A	42	208-230/460	Auto.	1.4	67.0	12.37
	1725	56C	111157●	720	A	41	575	Auto.	0.6	67.0	12.50
	1725	56C	114628●	720	A	41	208-230/460	Auto.	1.6	80.0	12.50
	1725	56C	116190#	498	A	34	208-230/460	T-stat	2.4	68.0	13.44
3/4	3450	56C	114629▲	816	A	43	208-230/460	Auto.	2.4	72.0	13.09
	1725	56C	111216	768	A	42	575	Auto.	1.1	72.0	13.09
	1725	56C	114630▲	768	A	41	208-230/460	Auto.	2.8	75.0	13.09
	1725	56C	116191#	872	A	38	208-230/460	T-stat	3.0	75.5	13.44
1	3450	56C	114631▲	829	A	43	208-230/460	Auto.	3.2	77.1	13.09
	1725	56C	111160	801	A	46	575	Auto.	1.4	75.0	14.09
	1725	56C	114632▲	801	A	46	208-230/460	Auto.	3.4	78.0	14.09
1725	56C	G121541#	583	A	44	208-230/460	T-stat	3.0	82.5	14.50	
1½	3450	56C	114633▲	871	A	43	208-230/460	Auto.	4.0	80.3	14.09
	1725	56C	112101	815	A	52	575	Auto.	1.8	76.0	14.59
	1725	56HC	114634	815	A	52	208-230/460	Auto.	4.6	80.0	14.59
1725	56C	G121542#	590	A	54	208-230/460	T-stat	4.4	84.0	16.00	
2	3450	56HC	114635▲	905	A	51	208-230/460	Auto.	5.6	78.8	14.59
	1725	56C	G121543#	655	A	65	208-230/460	T-stat	5.6	84.0	16.50
1725	145TC	G121182	955	A	59	208-230/460	Auto.	5.6	84.0	15.53	
3	3450	56HC	114636③	925	A	62	208-230/460	Auto.	7.2	83.0	15.59

③ Catalogue #114636 is approved for Class I, Group C & D -- Class II, Group F service only.

CAST IRON EXPLOSION-PROOF – SEE PAGE 34

Catalogue numbers in blue are NEW items.



EXPLOSION-PROOF MOTORS • 575 VOLTS

THREE PHASE • CAST IRON

EXPLOSION-PROOF FOR HAZARDOUS LOCATIONS

Underwriters Laboratories
and Canadian Standards
Association Listed

General Specifications:

These explosion proof motors are designed and approved for application in hazardous environments having certain explosive gases or materials present.

Features:

Rugged mechanical construction meeting all requirements for safety. UL and CSA listed.

Double shielded, pre-lubricated ball bearings are standard. All motors have inherent automatic overload protection.

NEMA 1.0 service factor on CX Series.

NEMA 1.15 service factor on G Series.

Explosion-proof NEC-size conduit box included at no extra cost.

Normally-closed thermostats are standard.

Application Notes:

These motors must be applied in accordance with the National Electrical Code, Article #500. A partial listing of explosive agents is noted below. Consult NFPA Publication 497M for a complete listing. No LEESON Motors are listed for Class I, Groups A or B.

Please note headings and footnotes for qualifications of specific LEESON motors.

Class I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume.

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene.

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene.

Class II

Group E: Aluminum, magnesium and other metal dusts with similar characteristics.

Group F: Carbon black, coke or coal dust.

Group G: Flour, starch or grain dust.



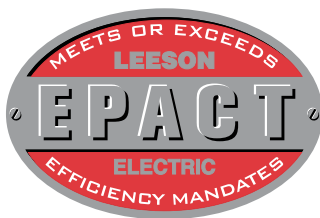
RIGID BASE • THREE PHASE • CAST IRON FRAME

CLASS I, GROUP D—CLASS II, GROUPS F & G • WITH CONDUIT BOX ✓

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc Sym.	App. Wgt. (lbs.)	Voltage	FL. Amps 575 V.	% FL. Eff.	"C" Dim. (Inches)
3	1800	182T	G850520	\$981	A	91	575	3.2	87.5	17.12
	1200	213T	G850570	1446	A	138	575	3.5	87.5	20.18
5	3600	184T	G850537	1149	A	125	575	5.0	87.5	17.12
	1800	184T	G850521	1113	A	125	575	5.0	87.5	17.12
	1200	215T	G850571	1804	A	155	575	5.5	88.5	20.18
	7½	3600	213T	G850538	1620	A	138	575	7.6	88.5
	1800	213T	G850522	1489	A	138	575	8.0	89.5	20.18
	1200	254T	G850572	2226	A	238	575	8.2	89.5	23.52
10	3600	215T	G850539	1758	A	155	575	9.6	89.5	20.18
	1800	215T	G850523	1614	A	155	575	10.4	91.0	20.18
	1200	256T	G850573	2609	A	263	575	10.4	89.5	23.52
	15	3600	254T	G850540	2267	A	238	575	14.4	90.2
1800		254T	G850524	2298	A	238	575	15.6	91.0	23.52
	1200	284T	G850574	3795	A	365	575	16.0	90.2	26.30
	20	3600	256T	G850541	2593	A	263	575	18.4	90.2
1800		256T	G850525	2587	A	263	575	20.0	91.0	25.27
	1200	286T	G850575	3932	A	385	575	21.6	90.2	27.80
	25	3600	284TS	G850542*	3546	A	365	575	23.2	91.0
1800		284T	G850526	3480	A	366	575	25.2	92.4	26.30
	1200	324T	G850576	4854	A	550	575	26.8	91.7	28.87
	30	3600	286TS	G850543*	3774	A	385	575	28.0	91.0
1800		286T	G850527*	3875	A	385	575	29.6	92.4	27.80
	1200	326T	G850577	5298	A	570	575	32.8	91.7	30.37
	40	3600	324TS	G850544*	4929	A	546	575	36.8	91.7
1800		324T	G850528*	5143	A	550	575	41.2	93.0	28.87
	1200	364T	G850578	7252	A	875	575	40.0	93.0	31.50

*Class I, Group C & D—Class II, Groups F & G.

✓ Normally-closed thermostats.



EXPLOSION-PROOF MOTORS • 575 VOLTS

THREE PHASE • CAST IRON



RIGID BASE • THREE PHASE • CAST IRON FRAME

CLASS I, GROUP D—CLASS II, GROUPS F & G • WITH CONDUIT BOX ✓

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc Sym.	App. Wgt. (lbs.)	Voltage	FL. Amps 575 V.	% FL. Eff.	"C" Dim. (Inches)
50	3600	326TS	G850545*	\$6261	A	570	575	45.6	92.4	28.87
	1800	326T	G850529*	5859	A	570	575	49.2	93.0	30.37
	1200	365T	G850579	7534	A	875	575	49.6	93.0	32.50
60	3600	364TS	G850546	7852	A	875	575	56.4	93.0	29.38
	1800	364T	G850530	7407	A	825	575	57.6	93.6	31.50
	1200	404T	G850580	9563	A	850	575	57.6	93.6	31.50
75	3600	365TS	G850547	8906	A	875	575	69.6	93.1	30.38
	1800	365T	G850531	8606	A	875	575	71.2	94.1	32.50
	1200	405T	G850581	9491	A	1100	575	72.8	93.6	37.12
100	3600	405TS	G850548	12433	A	1100	575	88.0	94.1	34.12
	1800	405T	G850532	10117	A	1100	575	91.2	94.5	37.12
	1200	444T	G850582	14370	A	1760	575	94.4	94.1	41.25
125	3600	444TS	G850549	16438	A	1760	575	109.6	94.5	37.50
	1800	444T	G850533	13524	A	1760	575	116.8	94.5	41.25
	1200	445T	G850583	15851	A	2050	575	124.0	94.1	43.19
150	3600	445TS	G850550	20620	A	2050	575	133.6	94.5	37.50
	1800	445T	G850534	15109	A	2050	575	137.6	95.0	43.19
	1200	445T	G850584	19246	A	2150	575	145.6	95.0	43.19
200	3600	445TS	G850551	24035	A	2050	575	177.6	95.0	37.50
	1800	445T	G850535	19973	A	2200	575	180	95.0	43.19
	1200	445T	G850585	25502	A	2300	575	194.4	95.0	51.69
250	3600	449TS	G850552	28109	A	2200	575	220	95.4	47.97
	1800	449T	G850536	22721	A	2200	575	232	95.0	51.69
	1200	449T	G850586	33867	A	2500	575	240	95.4	51.69

*Class I, Group C & D—Class II, Groups F & G.

C FACE WITH RIGID BASE • THREE PHASE CAST IRON FRAME

CLASS I, GROUP D—CLASS II, GROUPS F & G
WITH CONDUIT BOX ✓

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc Sym.	App. Wgt. (lbs.)	Voltage	FL. Amps 575 V.	% FL. Eff.	"C" Dim. (Inches)
3	3600	182TC	G850602	\$1303	A	90	575	3.0	85.5	17.12
	1800	182TC	G850632	1182	A	91	575	3.2	87.5	17.12
	1200	213TC	G850662	1717	A	138	575	3.5	87.5	20.18
5	3600	184TC	G850603	1353	A	125	575	5.0	87.5	17.12
	1800	184TC	G850633	1243	A	125	575	5.0	87.5	17.12
	1200	215TC	G850663	1985	A	155	575	5.5	88.5	20.18
7½	3600	213TC	G850604	1889	A	138	575	7.6	88.5	20.18
	1800	213TC	G850634	1762	A	138	575	8.0	89.5	20.18
	1200	254TC	G850664	3657	A	238	575	8.2	89.5	23.52
10	3600	215TC	G850605	2030	A	155	575	9.6	89.5	20.18
	1800	215TC	G850635	1889	A	155	575	10.4	91.0	20.18
	1200	256TC	G850665	3973	A	263	575	10.4	89.5	23.52
15	3600	254TC	G850606	2544	A	238	575	14.4	90.2	23.52
	1800	254TC	G850636	2505	A	238	575	15.6	91.0	23.52
	1200	284TC	G850666	4333	A	365	575	16.0	90.2	26.30
20	3600	256TC	G850607	3197	A	263	575	18.4	90.2	25.27
	1800	256TC	G850637	3222	A	263	575	20.0	91.0	25.27
	1200	286TC	G850667	4858	A	385	575	21.6	90.2	27.80
25	3600	284TSC	G850608	4444	A	365	575	23.2	91.0	24.94
	1800	284TC	G850638	4570	A	366	575	25.2	92.4	26.30
	1200	324TC	G850668	6130	A	550	575	26.8	91.7	28.87
30	3600	286TSC	G850609	4691	A	385	575	28.0	91.0	26.44
	1800	286TC	G850639	4797	A	385	575	29.6	92.4	27.80
	1200	326TC	G850669	6610	A	570	575	32.8	91.7	30.37
40	3600	324TSC	G850610	6211	A	546	575	36.8	91.7	27.37
	1800	324TC	G850640	6444	A	550	575	41.2	93.0	28.87
	1200	364TC	G850670	8711	A	875	575	40.0	93.0	31.50
50	3600	326TSC	G850611	7650	A	570	575	45.6	92.4	28.87
	1800	326TC	G850641	7216	A	570	575	49.2	93.0	30.37
	1200	365TC	G850671	9150	A	875	575	49.6	93.0	32.50
60	3600	364TSC	G850612	9807	A	875	575	56.4	93.0	29.38
	1800	364TC	G850642	9322	A	825	575	57.6	93.6	31.50
	1200	404TC	G850672	10958	A	850	575	57.6	93.6	31.50
75	3600	365TSC	G850613	10943	A	875	575	69.6	93.1	30.38
	1800	365TC	G850643	10428	A	875	575	71.2	94.1	32.50
	1200	405TC	G850673	11706	A	1100	575	72.8	93.6	37.12
100	3600	405TSC	G850614	14877	A	1100	575	88.0	94.1	34.12
	1800	405TC	G850644	12377	A	1100	575	91.2	94.5	37.12
	1200	444TC	G850674	17043	A	1760	575	94.4	94.1	41.25
125	3600	444TSC	G850615	19199	A	1760	575	109.6	94.5	37.50
	1800	444TC	G850645	16053	A	1760	575	116.8	94.5	41.25
	1200	445TC	G850675	18639	A	2050	575	124.0	94.1	43.19
150	3600	445TSC	G850616	23785	A	2050	575	133.6	94.5	37.50
	1800	445TC	G850646	17841	A	2050	575	137.6	95.0	43.19
	1200	445TC	G850676	22300	A	2160	575	145.6	95.0	43.19

✓ Normally-closed thermostats.



EXPLOSION-PROOF MOTORS • 208-230/460 VOLTS

THREE PHASE • CAST IRON

EXPLOSION-PROOF FOR HAZARDOUS LOCATIONS

Underwriters Laboratories
and Canadian Standards
Association Listed

General Specifications:

These explosion proof motors are designed and approved for application in hazardous environments having certain explosive gases or materials present.

Features:

Rugged mechanical construction meeting all requirements for safety. UL and CSA listed.

Double shielded, pre-lubricated ball bearings are standard. All motors have inherent automatic overload protection. NEMA 1.0 service factor CX Series.

NEMA 1.15 service factor G Series.

Explosion-proof NEC-size conduit box included at no extra cost.

Normally closed thermostats are standard.

Application Notes:

These motors must be applied in accordance with the National Electrical Code, Article #500. A partial listing of explosive agents is noted below. Consult NFPA Publication 497M for a complete listing. No LEESON Motors are listed for Class I, Groups A or B. Please note headings and footnotes for qualifications of specific LEESON motors.

Class I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume.

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene.

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene.

Class II

Group E: Aluminum, magnesium and other metal dusts with similar characteristics.

Group F: Carbon black, coke or coal dust.

Group G: Flour, starch or grain dust.



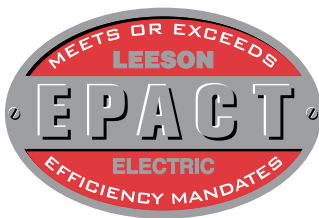
RIGID BASE • THREE PHASE • CAST IRON FRAME

CLASS I, GROUP D—CLASS II, GROUPS F & G • WITH CONDUIT BOX ✓

HP	RPM 60 Hz	NEMA Frame	Catalogue Number	List Price	Disc Sym.	App. Wgt. (lbs.)	Voltage	FL. Amps 460 V.	% FL. Eff.	"C" Dim. (Inches)
3	1800	182T	G158362	\$981	A	91	230/460	4.0	87.5	17.12
	1200	213T	G850553	1446	A	138	230/460	4.4	87.5	20.18
5	3600	184T	G158319	1149	A	125	230/460	6.2	87.5	17.12
	1800	184T	G158366	1113	A	125	230/460	6.3	87.5	17.12
	1200	215T	G850554	1804	A	155	230/460	6.9	88.5	20.18
7½	3600	213T	G158158	1620	A	138	230/460	9.5	88.5	20.18
	1800	213T	G158157	1489	A	138	230/460	10.0	89.5	20.18
	1200	254T	G850555	2226	A	238	230/460	10.2	89.5	23.52
10	3600	215T	G158159	1758	A	155	230/460	12.0	89.5	20.18
	1800	215T	G158140	1614	A	155	230/460	13.0	91.0	20.18
	1200	256T	G850556	2609	A	263	230/460	13.0	89.5	23.52
15	3600	254T	G158000	2267	A	238	230/460	18.0	90.2	23.52
	1800	254T	G158001	2298	A	238	230/460	19.5	91.0	23.52
	1200	284T	G850557	3795	A	365	230/460	20.0	90.2	26.30
20	3600	256T	G825039	2593	A	263	230/460	23.0	90.2	25.27
	1800	256T	G158010	2587	A	263	230/460	25.0	91.0	25.27
	1200	286T	G850558	3932	A	385	230/460	27.0	90.2	27.80
25	3600	284TS	G825046*	3546	A	365	230/460	29.0	91.0	24.94
	1800	284T	G825047	3480	A	366	230/460	31.5	92.4	26.30
	1200	324T	G850559	4854	A	550	230/460	33.5	91.7	28.87
30	3600	286TS	G825040*	3774	A	385	230/460	35.0	91.0	26.44
	1800	286T	G825041*	3875	A	385	230/460	37.0	92.4	27.80
	1200	326T	G850560	5298	A	570	230/460	41.0	91.7	30.37
40	3600	324TS	G825042*	4929	A	546	230/460	46.0	91.7	27.37
	1800	324T	G825043*	5143	A	550	230/460	51.5	93.0	28.87
	1200	364T	G850561	7252	A	875	230/460	50.0	93.0	31.50

*Class I, Groups C & D—Class II, Groups F & G.

✓ Normally-closed thermostats.



SHADED FRAME INDICATES CAST IRON CONSTRUCTION

