

# Premium Severe Duty/Chemical Processing, Three Phase, NEMA Premium® Efficiency, Blue Chip XRI®

## Totally Enclosed, Rigid Base



### Applications:

Chemical plants, paper mills, refineries, mines, food processing, foundries, and other severe duty environments where long life and ultra-high efficiency are desired. Guaranteed efficiencies offer an eXtra R Return on your Investment when using these premium efficiency motors on high cycle or long run applications.

### Features:

- Meets or exceeds NEMA Premium® efficiencies, except where noted
- Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- Provisions to add stub shaft for an encoder (182T-449T, TEFC only)
- Internal and external epoxy paint
- MAX GUARD® Class F insulation system
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- Bearing caps (254T and larger)
- Precision balanced
- Extended grease tubes, regreasable in service
- Brass drain and breather
- Meets IEEE45 USCG Marine Duty, IP54 Construction
- Meets Ford EM1 Automotive Duty Specification
- Hazardous Duty™ Division 2 CSA certification nameplate, for hazardous locations, Class I, Groups A, B, C, and D
- Meets temperature code T2B
- Actual test and vibration data supplied with each motor
- Ball bearings, except where noted
- UL Recognized (through 449T) CSA Certified
- Three year warranty



**IP54**

### Available with Nameplate Modification (through 40 HP):

- 2:1, 20:1, or 1000:1 Constant Torque, 1.0 Service Factor on IGBT (PWM) power
- 1.25 Service Factor through 40 HP (sinewave only)
- 50HZ at same HP, 1.0 Service Factor through 40 HP (sinewave only)
- Contact Marathon Electric for optional nameplate markings on 50 HP and larger

Suitable for use on VFD per guidelines on page 14.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES	C FACE KIT
<b>3/4</b>	1200	460	143T	<b>E648</b> ★	143TTN6576	1000:1	<b>\$561</b>	E9	80.0	1.4	53	10.43	75,76,N	A603
	1200	460	143T	E373	143TTFN6576	20:1	<b>\$617</b>	E9	80.0	1.4	53	12.92	75,76	A603
<b>1</b>	1800	460	143T	<b>E649</b> ★	143TTN6526	1000:1	<b>\$458</b>	E9	85.5	1.5	55	10.43	75,76,N	A603
	1800	460	143T	<b>E374</b>	143TTFN6526	20:1	<b>\$504</b>	E9	85.5	1.5	71	12.92	75,76	A603
	1800	230/460	143T	<b>E461</b> ★	143TTN6563	1000:1	<b>\$458</b>	E9	85.5	3.1/1.5	55	12.95	75,76,N	A603
	1800	230/460	143T	<b>E375</b>	143TTFN6563	20:1	<b>\$504</b>	E9	85.5	3.1/1.5	71	12.95	75,76	A603
	1800	575	143T	<b>E666</b> ★	143TTN6530	1000:1	<b>\$458</b>	E9	85.5	1.2	55	10.43	75,76,N	A603
	1800	575	143T	<b>E376</b>	143TTFN16539	20:1	<b>\$504</b>	E9	85.5	1.2	71	14.17	75,76	A603
	1200	460	145T	<b>E650</b> ★	145TTN6576	1000:1	<b>\$576</b>	E9	80.0	1.65	60	11.43	75,76,N,NP	A655
	1200	230/460	145T	<b>E462</b>	145TTN6584	1000:1	<b>\$576</b>	E9	80.0	3.3/1.65	60	11.43	75,76,N,NP	A655
<b>1 1/2</b>	3600	460	143T	<b>E651</b> ★	143TTN6501	1000:1	<b>\$573</b>	E9	86.5	2.0	58	10.43	75,76,N	A603
	3600	460	143T	<b>E377</b>	143TTFN6501	20:1	<b>\$630</b>	E9	85.5	2.0	64	14.17	75,76	A603
	3600	230/460	143T	<b>E463</b>	143TTN6502	1000:1	<b>\$573</b>	E9	86.5	4.0/2.0	58	10.43	75,76,N	A603
	3600	230/460	143T	<b>E378</b>	143TTFN6502	20:1	<b>\$630</b>	E9	85.5	4.0/2.0	64	14.17	75,76	A603
	3600	575	143T	<b>E851</b> ★	143TTN6505	1000:1	<b>\$573</b>	E9	86.5	1.6	58	10.43	d,75,76,N	A603
	3600	575	143T	<b>E379</b>	143TTFN6505	20:1	<b>\$630</b>	E9	85.5	1.6	64	14.17	75,76	A603
	1800	460	145T	<b>E652</b> ★	145TTN6526	1000:1	<b>\$497</b>	E9	84.0	2.2	65	11.43	75,76,N,NP	A655
	1800	230/460	145T	<b>E464</b> ★	145TTN6834	1000:1	<b>\$497</b>	E9	84.0	4.4/2.2	65	11.43	75,76,N,NP	A655
	1800	575	145T	<b>E667</b>	145TTN6529	1000:1	<b>\$497</b>	E9	84.0	1.8	65	11.43	75,76,N,NP	A655
	1200	460	182T	<b>E632</b> ★	182TTFN6576	1000:1	<b>\$737</b>	E9	87.5	2.2	100	12.71	75,76,N	A644
	1200	460	182T	<b>E380</b>	182TTFN6576	20:1	<b>\$811</b>	E9	87.5	2.2	110	15.19	75	A644
	1200	230/460	182T	<b>E465</b>	182TTFN6578	1000:1	<b>\$737</b>	E9	87.5	4.4/2.2	100	12.71	75,N	A644
1200	230/460	182T	<b>E381</b>	182TTFN6578	20:1	<b>\$811</b>	E9	87.5	4.4/2.2	110	15.19	75	A644	
<b>2</b>	3600	460	145T	<b>E653</b> ★	145TTN6501	1000:1	<b>\$601</b>	E9	85.5	2.5	68	11.43	75,76,N	A655
	3600	460	145T	<b>E382</b>	145TTFN6501	20:1	<b>\$661</b>	E9	85.5	2.0	80	14.17	75,76	A655
	3600	230/460	145T	<b>E466</b>	145TTN6521	1000:1	<b>\$601</b>	E9	85.5	5.0/2.5	68	11.43	75,76,N	A655
	3600	230/460	145T	<b>E383</b>	145TTFN6521	20:1	<b>\$661</b>	E9	85.5	4.0/2.0	80	14.17	75,76	A655
	3600	575	145T	<b>E852</b>	145TTN6505	1000:1	<b>\$601</b>	E9	85.5	2.0	68	11.43	75,76,N	A655
	3600	575	145T	<b>E384</b>	145TTFN6505	20:1	<b>\$661</b>	E9	85.5	1.6	80	14.17	75,76	A655

Blue shaded areas are Cast Iron Frames

★ Stock Model

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet or exceed U.S. EPCa and/or NRCan Canadian standards.

### Footnotes:

- d Will become build-up item when current stock is gone
- N Totally Enclosed, Non-Ventilated
- NP Does not meet NEMA Premium® efficiency

75 Addition of C-Face Kits may result in non-NEMA "BA" dimension; for the resulting "BA" dimension consult chart found in modification section

76 Addition of C-Face Kits in non-NEMA "AH" dimension "AH" is 2.12", rework "AH" is 2.38".

Continued on next page.

# Premium Severe Duty/Chemical Processing, Three Phase, NEMA Premium® Efficiency, Blue Chip XRI®

Totally Enclosed, Rigid Base

SEVERE DUTY

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES	C FACE KIT	
<b>2</b>	1800	460	145T	<b>E654</b> *	145TTTN6527	1000:1	\$546	E9	85.5	3.0	68	11.43	75,76,N,NP	A655	
	1800	460	145T	<b>E385</b>	145TTFN6527	20:1	\$601	E9	86.5	2.8	68	14.17	75,76	A655	
	1800	230/460	145T	<b>E467</b> *	145TTTN6835	1000:1	\$546	E9	85.5	6.0/3.0	68	11.43	75,76,N,NP	A655	
	1800	230/460	145T	<b>E386</b>	145TTFN6835	20:1	\$601	E9	86.5	5.6/2.8	68	14.17	75,76	A655	
	1800	575	145T	<b>E668</b> *	145TTTN6530	1000:1	\$546	E9	85.5	2.4	68	11.43	75,76,N,NP	A655	
	1800	575	145T	<b>E387</b>	145TTFN6530	20:1	\$601	E9	86.5	2.2	68	14.17	75,76	A655	
	1200	460	184T	<b>E633</b> *	184TTTS6576	1000:1	\$911	E9	88.5	3.0	112	13.71	75,N	A644	
	1200	460	184T	<b>E388</b>	184TTFS6576	20:1	\$1,002	E9	88.5	2.9	110	16.19	75	A644	
	1200	230/460	184T	<b>E468</b> *	184TTTS6582	1000:1	\$911	E9	88.5	6.0/3.0	112	13.71	75,N	A644	
	1200	230/460	184T	<b>E389</b>	184TTFS6582	20:1	\$1,002	E9	88.5	5.8/2.9	110	16.19	75	A644	
<b>3</b>	3600	460	182T	<b>E601</b> *	182TTTS6501	1000:1	\$825	E9	87.5	3.8	98	12.71	75,N	A644	
	3600	460	182T	<b>E390</b>	182TTFS6501	20:1	\$908	E9	87.5	3.8	105	15.19	75	A644	
	3600	230/460	182T	<b>E391</b>	182TTFS6519	20:1	\$908	E9	87.5	7.6/3.8	105	15.19	75	A644	
	3600	575	182T	<b>E853</b>	182TTTS6505	1000:1	\$825	E9	87.5	3.0	105	12.71	75,N	A644	
	3600	575	182T	<b>E392</b>	182TTFS6505	20:1	\$908	E9	87.5	3.0	105	21.57	75	A644	
	1800	460	182T	<b>E616</b> *	182TTTS6526	1000:1	\$740	E9	90.2	4.0	102	12.71	75,N	A644	
	1800	460	182T	<b>E393</b>	182TTFS6526	20:1	\$814	E9	90.7	4.0	110	15.94	75	A644	
	1800	230/460	182T	<b>E470</b> *	182TTTS6538	1000:1	\$740	E9	90.2	8.0/4.0	102	12.71	75,N	A644	
	1800	230/460	182T	<b>E394</b>	182TTFS6538	20:1	\$814	E9	90.7	8.0/4.0	110	15.94	75	A644	
	1800	575	182T	<b>E669</b> *	182TTTS6530	1000:1	\$740	E9	90.2	3.2	102	12.71	75,N	A644	
	1800	575	182T	<b>E395</b>	182TTFS6530	20:1	\$814	E9	90.7	3.2	110	15.94	75	A644	
	1200	460	213T	<b>E634</b> *	213TTFS6576	20:1	\$1,122	E9	89.5	4.4	176	18.22	75	A206	
	1200	230/460	213T	<b>E471</b> *	213TTFS6594	20:1	\$1,122	E9	89.5	8.8/4.4	176	18.22	75	A206	
	<b>5</b>	3600	460	184T	<b>E602</b> *	184TTFS6501	2:1	\$917	E9	89.5	5.9	142	16.19	75	A644
3600		230/460	184T	<b>E472</b> *	184TTFS6810	2:1	\$917	E9	89.5	11.8/5.9	142	16.19	75	A644	
3600		575	184T	<b>E655</b> *	184TTFS6505	20:1	\$917	E9	89.5	4.7	142	16.19	75	A644	
1800		460	184T	<b>E617</b> *	184TTFS6526	20:1	\$858	E9	90.2	6.2	130	16.19	75	A644	
1800		230/460	184T	<b>E473</b> *	184TTFS6844	20:1	\$858	E9	90.2	12.4/6.2	130	16.19	75	A644	
1800		575	184T	<b>E670</b> *	184TTFS6530	20:1	\$858	E9	90.2	5.0	130	16.19	75	A644	
1200		460	215T	<b>E635</b> *	215TTFS6576	20:1	\$1,378	E9	89.5	6.9	202	19.72	75	A206	
1200		230/460	215T	<b>E474</b> *	215TTFS6881	20:1	\$1,378	E9	89.5	13.8/6.9	202	19.72	75	A206	
1200		575	215T	<b>E683</b> *	215TTFS6580	20:1	\$1,378	E9	89.5	5.5	202	19.72	d,75	A206	
<b>7 1/2</b>		3600	460	213T	<b>E603</b> *	213TTTS6501	1000:1	\$1,108	E9	91.7	8.9	200	17.19	75,N	A206
	3600	460	213T	<b>E396</b>	213TTFS6501	2:1	\$1,219	E9	89.5	8.9	175	19.72	75	A206	
	3600	230/460	213T	<b>E475</b> *	213TTTS6502	1000:1	\$1,108	E9	91.7	17.8/8.9	200	17.19	75,N	A206	
	3600	230/460	213T	<b>E397</b>	213TTFS6502	2:1	\$1,219	E9	89.5	17.8/8.9	175	18.22	75	A206	
	3600	575	213T	<b>E656</b> *	213TTTS6505	1000:1	\$1,108	E9	91.7	7.1	200	17.19	75,N	A206	
	3600	575	213T	<b>E398</b>	213TTFS6505	2:1	\$1,219	E9	89.5	7.1	175	18.22	75	A206	
	1800	460	213T	<b>E618</b> *	213TTFS6526	20:1	\$1,051	E9	91.7	9.6	200	19.72	75	A206	
	1800	230/460	213T	<b>E476</b> *	213TTFS6531	20:1	\$1,051	E9	91.7	19.2/9.6	200	19.72	75	A206	
	1800	575	213T	<b>E671</b> *	213TTFS6530	20:1	\$1,051	E9	91.7	7.7	200	19.72	75	A206	
	1200	460	254T	<b>E636</b> *	254TTFNA6576	20:1	\$1,786	E9	91.0	9.9	326	23.52	75	A284	
	1200	230/460	254T	<b>E477</b> *	254TTFNA6590	20:1	\$1,786	E9	91.0	19.8/9.9	326	23.52	75	A284	
	1200	575	254T	<b>E684</b>	254TTFNA6578	20:1	\$1,786	E9	91.0	7.9	326	23.52	75	A284	
	<b>10</b>	3600	460	215T	<b>E604</b> *	215TTFS6501	2:1	\$1,293	E9	91.7	11.8	218	19.72	75	A206
		3600	230/460	215T	<b>E478</b> *	215TTFS6807	2:1	\$1,293	E9	91.7	23.6/11.8	218	19.72	75	A206
3600		575	215T	<b>E657</b>	215TTFS6505	2:1	\$1,293	E9	91.7	9.5	218	19.72	75	A206	
1800		460	215T	<b>E619</b> *	215TTFS6526	20:1	\$1,266	E9	91.7	12.5	225	19.72	75	A206	
1800		230/460	215T	<b>E479</b> *	215TTFS6527	20:1	\$1,266	E9	91.7	25.0/12.5	225	19.72	75	A206	
1800		575	215T	<b>E672</b> *	215TTFS6530	20:1	\$1,266	E9	91.7	10.0	225	19.72	75	A206	
1200		460	256T	<b>E637</b> *	256TTFNA6576	20:1	\$2,182	E9	91.0	13.1	405	25.27	75	A284	
1200		230/460	256T	<b>E480</b> *	256TTFNA6596	20:1	\$2,182	E9	91.0	26.2/13.1	405	25.27	75	A284	
1200		575	256T	<b>E685</b>	256TTFNA6578	20:1	\$2,182	E9	91.0	10.5	405	25.27	75	A284	

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**Footnotes:**

d Will become build-up item when current stock is gone  
 N Totally Enclosed, Non-Ventilated  
 NP Does not meet NEMA Premium® efficiency

75 Addition of C-Face Kits may result in non-NEMA "BA" dimension; for the resulting "BA" dimension consult chart found in modification section

76 Addition of C-Face Kits in non-NEMA "AH" dimension "AH" is 2.12", rework "AH" is 2.38".

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## Totally Enclosed, Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES	C FACE KIT
<b>15</b>	3600	460	254T	<b>E605</b> *	254TTFNA6501	2:1	\$1,732	E9	91.7	17.5	345	23.52	75	A284
	3600	230/460	254T	<b>E481</b> *	254TTFNA6515	2:1	\$1,732	E9	91.7	35.0/17.5	345	23.52	75	A284
	3600	575	254T	<b>E658</b>	254TTFNA6503	2:1	\$1,732	E9	91.7	14.2	345	23.52	75	A284
	1800	460	254T	<b>E620</b> *	254TTFNA6526	20:1	\$1,626	E9	92.4	18.8	350	23.52	75	A284
	1800	230/460	254T	<b>E482</b> *	254TTFNA6529	20:1	\$1,626	E9	92.4	37.6/18.8	350	23.52	75	A284
	1800	575	254T	<b>E673</b> *	254TTFNA6528	20:1	\$1,626	E9	92.4	15.0	350	23.52	75	A284
	1200	460	284T	<b>E638</b> *	284TTFNA6576	20:1	\$2,896	E9	91.7	20.4	479	26.34		A618
	1200	230/460	284T	<b>E483</b> *	284TTFNA6876	20:1	\$2,896	E9	91.7	40.8/20.4	479	26.34		A618
	1200	575	284T	<b>E694</b> *	284TTFNA6580	20:1	\$2,896	E9	91.7	16.3	479	26.34	d	A618
<b>20</b>	3600	460	256T	<b>E606</b> *	256TTFNA6501	2:1	\$2,146	E9	92.4	23.4	375	25.27	75	A284
	3600	230/460	256T	<b>E484</b>	256TTFNA6523	2:1	\$2,146	E9	92.4	47.0/23.4	375	25.27	75	A284
	3600	575	256T	<b>E659</b> *	256TTFNA6503	2:1	\$2,146	E9	92.4	18.7	375	25.27	75	A284
	1800	460	256T	<b>E621</b> *	256TTFNA6526	20:1	\$2,026	E9	93.0	24.1	425	25.27	75	A284
	1800	230/460	256T	<b>E485</b> *	256TTFNA6529	20:1	\$2,026	E9	93.0	48.2/24.1	425	25.27	75	A284
	1800	575	256T	<b>E674</b> *	256TTFNA6528	20:1	\$2,026	E9	93.0	19.3	425	25.27	75	A284
	1200	460	286T	<b>E639</b> *	286TTFNA6576	20:1	\$3,528	E9	91.7	26.8	550	27.84		A618
	1200	230/460	286T	<b>E486</b>	286TTFNA6876	20:1	\$3,528	E9	91.7	53.5/26.8	550	27.84		A618
	1200	575	286T	<b>E695</b>	286TTFNA6580	20:1	\$3,528	E9	91.7	21.4	550	27.84		A618
<b>25</b>	3600	460	284TS	<b>E607</b> *	284TSTFNA6501	2:1	\$2,644	E9	93.6	28.1	481	24.97		A618
	3600	575	284TS	<b>E660</b> *	284TSTFNA6502	2:1	\$2,644	E9	93.6	22.5	481	24.97		A618
	1800	460	284T	<b>E622</b>	284TTFNA6526	20:1	\$2,413	E9	93.6	31.0	478	26.34		A618
	1800	230/460	284T	<b>E488</b> *	284TTFNA6837	20:1	\$2,413	E9	93.6	62.0/31.0	478	26.34		A618
	1800	575	284T	<b>E675</b> *	284TTFNA6527	20:1	\$2,413	E9	93.6	24.8	478	26.34		A618
	1200	460	324T	<b>E640</b> *	324TTFS6576	20:1	\$4,276	E9	93.0	32.5	675	28.87		A214
	1200	575	324T	<b>E696</b>	324TTFS6577	20:1	\$4,276	E9	93.0	26.0	675	28.87		A214
<b>30</b>	3600	460	286TS	<b>E608</b> *	286TSTFNA6501	2:1	\$3,087	E9	93.6	34.1	500	26.47		A618
	3600	230/460	286TS	<b>E490</b> *	286TSTFNA6804	2:1	\$3,087	E9	93.6	67.5/34.0	500	26.47		A618
	1800	460	286T	<b>E623</b> *	286TTFNA6526	20:1	\$2,805	E9	94.1	36.5	525	27.84		A618
	1800	230/460	286T	<b>E491</b> *	286TTFNA6570	20:1	\$2,805	E9	94.1	73.0/36.5	525	27.84		A618
	1800	575	286T	<b>E676</b> *	286TTFNA6527	20:1	\$2,805	E9	94.1	29.2	525	27.84		A618
	1200	460	326T	<b>E641</b> *	326TTFS6576	20:1	\$4,926	E9	93.0	38.5	725	30.37		A214
	1200	575	326T	<b>E400</b>	326TTFS6580	20:1	\$4,926	E9	93.0	31.0	725	30.37		A214
<b>40</b>	3600	460	324TS	<b>E609</b> *	324TSTFS6501	2:1	\$4,072	E9	93.6	47.0	656	27.37		A214
	3600	575	324TS	<b>E662</b>	324TSTFS6505	2:1	\$4,072	E9	93.6	37.5	656	27.37		A214
	1800	460	324T	<b>E624</b> *	324TTFS6526	20:1@	\$3,726	E9	94.1	47.5	700	30.37		A214
	1800	575	324T	<b>E677</b> *	324TTFS6527	20:1@	\$3,726	E9	94.1	38.0	700	30.37	d	A214
	1200	460	364T	<b>E642</b> *	364TTFS6586	20:1@	\$6,675	E9	93.6	50.0	950	31.50	NP	A395
	1200	575	364T	<b>E401</b>	364TTFS6590	20:1@	\$6,675	E9	93.6	40.0	950	31.50	NP	A395
<b>50</b>	3600	460	326TS	<b>E610</b> *	326TSTFS6501	2:1	\$5,268	E9	93.6	58.0	725	28.87		A214
	3600	575	326TS	<b>E663</b>	326TSTFS6502	2:1	\$5,268	E9	93.6	46.5	725	28.87		A214
	1800	460	326T	<b>E625</b> *	326TTFS6526	20:1@	\$4,576	E9	94.5	60.0	775	31.87		A214
	1800	460	326TS	<b>E453</b>	326TSTFS6536	20:1@	\$4,576	E9	94.5	60.0	775	28.87		A214
	1800	575	326T	<b>E678</b> *	326TTFS6527	20:1@	\$4,576	E9	94.5	48.0	775	30.37		A214
	1200	460	365T	<b>E643</b> *	365TTFS6586	20:1@	\$7,666	E9	93.6	61.5	955	32.50	NP	A395
	1200	575	365T	<b>E402</b>	365TTFS6590	20:1@	\$7,666	E9	93.6	49.0	955	32.50	NP	A395
<b>60</b>	3600	460	364TS	<b>E611</b> *	364TSTFS6501	2:1	\$6,929	E9	94.5	67.0	954	29.38		A396
	3600	575	364TS	<b>E664</b>	364TSTFS6505	2:1	\$6,929	E9	94.5	53.5	954	29.38		A396
	1800	460	364T	<b>E626</b> *	364TTFS6536	20:1@	\$6,565	E9	95.0	69.0	980	31.50		A395
	1800	460	364TS	<b>E454</b>	364TSTFS6526	20:1@	\$6,565	E9	95.0	69.0	980	29.38		A396
	1800	575	364T	<b>E679</b> *	364TTFS6537	20:1@	\$6,565	E9	95.0	55.0	980	31.50		A395

Blue shaded areas are Cast Iron Frames

\* Stock Model

\* Requires nameplate modification  
@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet or exceed U.S. EPA and/or NRC Canadian standards.

**Footnotes:**d Will become build-up item when current stock is gone  
NP Does not meet NEMA Premium® efficiency

75 Addition of C-Face Kits may result in non-NEMA "BA" dimension; for the resulting "BA" dimension consult chart found in modification section

Continued on next page.

# Premium Severe Duty/Chemical Processing, Three Phase NEMA Premium® Efficiency, Blue Chip XRI®

Totally Enclosed, Rigid Base

SEVERE DUTY

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES	C FACE KIT
<b>60</b>	1200	460	404T	<b>E644</b> ★	404TTFS6586	20:1@	\$8,982	E9	94.5	72.0	1156	35.62		A223
	1200	575	404T	<b>E403</b>	404TTFS6592	20:1@	\$8,982	E9	94.5	57.5	1156	35.62		A223
<b>75</b>	3600	460	365TS	<b>E612</b> ★	365TSTFS6501	2:1	\$8,702	E9	94.5	84.0	1002	30.38		A396
	3600	575	365TS	<b>E665</b> ★	365TSTFS6502	2:1	\$8,702	E9	94.5	67.0	1002	30.38		A396
	1800	460	365T	<b>E627</b> ★	365TTFS6536	20:1@	\$8,322	E9	95.4	86.0	1100	32.50		A395
	1800	460	365TS	<b>E455</b> ★	365TSTFS6526	20:1@	\$8,322	E9	95.4	86.0	1100	30.38		A396
	1800	575	365T	<b>E680</b>	365TTFS6537	20:1@	\$8,322	E9	95.4	69.0	1100	32.50		A395
	1200	460	405T	<b>E645</b> ★	405TTFS6586	20:1@	\$10,574	E9	94.5	90.0	1280	37.12		A223
	1200	575	405T	<b>E404</b>	405TTFS6587	20:1@	\$10,574	E9	94.5	71.5	1280	37.12		A223
<b>100</b>	3600	460	405TS	<b>E613</b> ★	405TSTFS6501	2:1	\$11,660	E9	95.0	108	1295	34.12		A226
	3600	575	405TS	<b>E493</b>	405TSTFS6502	2:1	\$11,660	E9	95.0	87.0	1295	34.12		A226
	1800	460	405T	<b>E628</b> ★	405TTFS6536	20:1@	\$10,282	E9	95.4	113	1330	37.12		A223
	1800	460	405TS	<b>E456</b> ★	405TSTFS6526	20:1@	\$10,282	E9	95.4	113	1330	34.12		A226
	1800	575	405T	<b>E681</b> ★	405TTFS6538	20:1@	\$10,282	E9	95.4	90.5	1330	37.12		A223
	1800	460	444T	<b>E327</b>	444TTFN16577	20:1@	\$14,451	E9	95.0	124	1970	41.25		A620
	1200	460	444T	<b>E646</b> ★	444TTFS6586	20:1@	\$14,451	E9	94.5	119	1690	41.25	NP	A229
	1200	575	444T	<b>E405</b>	444TTFS6590	20:1@	\$14,451	E9	94.5	94.5	1690	41.25	NP	A229
	<b>125</b>	3600	460	444TS	<b>E614</b> ★	444TSTFS6501	2:1	\$15,243	E9	95.4	136	1725	37.50	
3600		575	444TS	<b>E494</b>	444TSTFS6505	2:1	\$15,243	E9	95.4	109	1725	37.50		A232
1800		460	444T	<b>E629</b> ★	444TTFS6536	20:1@	\$13,535	E9	95.4	141	1725	41.25		A229
1800		460	444TS	<b>E457</b> ★	444TSTFS6526	20:1@	\$13,535	E9	95.4	141	1725	37.50		A232
1800		575	444T	<b>E697</b>	444TTFS6540	20:1@	\$13,535	E9	95.4	113	1725	41.25		A229
1200		460	445T	<b>E647</b> ★	445TTFN6586	20:1@	\$17,750	E9	95.0	155	2000	43.26		A620
1200		575	445T	<b>E406</b>	445TTFN6590	20:1@	\$17,750	E9	95.0	124	2000	43.26		A620
<b>150</b>	3600	460	445TS	<b>E615</b> ★	445TSTFN6501	2:1	\$18,311	E9	95.8	165	2187	39.44		A621
	3600	575	445TS	<b>E495</b>	445TSTFN6502	2:1	\$18,311	E9	95.8	132	2187	39.44		A621
	1800	460	445T	<b>E630</b> ★	445TTFN6536	20:1@	\$15,736	E9	95.8	172	2070	43.26		A620
	1800	460	445TS	<b>E458</b> ★	445TSTFN6526	20:1@	\$15,736	E9	95.8	172	2070	39.44		A621
	1800	575	445T	<b>E682</b>	445TTFN6537	20:1@	\$15,736	E9	95.8	138	2070	43.26		A620
	1200	460	445T	<b>E448</b> ★	445TTFN6587	20:1@	\$19,859	E9	95.8	180	2500	43.26	H, RB	N/A
	1200	575	445T	<b>E407</b>	445TTFN6591	20:1@	\$19,859	E9	95.8	145	2500	43.26	RB	N/A
<b>200</b>	3600	460	445TS	<b>E449</b> ★	445TSTFN6505	2:1	\$23,164	E9	95.8	222	2300	39.44	H	A621
	3600	575	445TS	<b>E496</b>	445TSTFN6506	2:1	\$23,164	E9	95.8	178	2300	39.44		A621
	1800	460	445T	<b>E631</b> ★	445TTFN6538	20:1@	\$19,138	E9	96.2	226	2437	43.26	RB	N/A
	1800	460	445TS	<b>E459</b> ★	445TSTFN6528	20:1@	\$19,138	E9	96.2	226	2437	39.44	H	A621
	1800	460	447/9T	<b>E770</b> ★	449TTFS6530	20:1@	\$22,009	E9	96.5	225	2700	51.69	H	A623
	1800	460	447/9T	<b>E854</b> ★	449TTFS6540	20:1@	\$22,009	E9	96.5	225	2700	51.69	H, RB	N/A
	1800	575	447/9T	<b>E856</b> ★	449TTFS6564	20:1@	\$22,009	E9	96.5	180	2700	51.69	H, RB	N/A
	1200	460	447/9T	<b>E773</b> ★	449TTFS6578	20:1@	\$24,311	E9	95.8	240	2927	51.69	H	A623
	1200	460	447/9T	<b>E687</b> ★	449TTFS6588	20:1@	\$24,311	E9	95.8	240	2927	51.69	H, RB	N/A
	1200	575	447/9T	<b>E408</b>	449TTFS6582	20:1@	\$24,311	E9	95.8	192	2927	51.69	H, RB	N/A
<b>250</b>	3600	460	447/9TS	E699	449TSTFS6503	2:1	\$29,214	E9	96.5	274	2700	47.88	H	A624
	1800	460	445T	E450	445TTFN6540	20:1@	\$24,011	E9	95.8	285	2450	43.26	A, H, RB	N/A
	1800	460	447/9T	E771 ★	449TTFS6528	20:1@	\$27,612	E9	96.5	285	2830	51.69	H	A623
	1800	460	447/9T	E690 ★	449TTFS6538	20:1@	\$27,612	E9	96.5	285	2830	51.69	H, RB	N/A
	1200	460	447/9T	E774	449TTFS6577	20:1@	\$27,946	E9	95.8	300	3415	51.69	H	A623
	1200	460	447/9T	E688	449TTFS6587	20:1@	\$27,946	E9	95.8	300	3415	51.69	H, RB	N/A

Blue shaded areas are Cast Iron Frames

★ Stock Model

\* Requires nameplate modification  
@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet or exceed U.S. EPA and/or NRC Canadian standards.

**Footnotes:**

- A NEMA Design A
- H Class H Insulation
- NP Does not meet NEMA Premium® efficiency
- RB Roller Bearing on shaft end for belted loads only

Continued on next page.

# Premium Severe Duty/Chemical Processing, Three Phase NEMA Premium® Efficiency, Blue Chip XRI®

## Totally Enclosed, Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES	C FACE KIT
<b>300</b>	3600	460	447/9TS	E698	449TSTFS6502	2:1	<b>\$37,866</b>	E9	96.2	330	2700	47.88	H	A626
	1800	460	447/9T	E691 ☆	449TTFS6537	20:1@	<b>\$30,652</b>	E9	96.5	339	3211	51.69	H,RB	N/A
	1800	460	447/9T	E772	449TTFS6527	20:1@	<b>\$30,652</b>	E9	96.5	339	3211	51.69	H	A623
	1800	575	447/9T	E345	449TTFS16534	20:1@	<b>\$30,652</b>	E9	96.5	271	3211	51.69	H,RB	N/A
	1200	460	5011LS	E360	-----	N/A	<b>\$55,980</b>	S6	95.8	355	5500	67.19	77,79,90	N/A
<b>350</b>	3600	460	447/9TS	E769	449TSTFS6501	2:1	<b>\$43,424</b>	E9	96.2	382	3064	47.88	H	A624
	1800	460	447/9T	E692 ☆	449TTFS6536	20:1@	<b>\$35,804</b>	E9	96.2	395	3350	51.69	H,RB	N/A
	1200	460	5011LS	E361	-----	N/A	<b>\$60,474</b>	S6	95.8	410	5500	67.19	77,79,90	N/A
<b>400</b>	3600	460	5011S	E369	-----	N/A	<b>\$51,543</b>	S6	95.8	432	5500	67.19	90	N/A
	1800	460	L447/9T	E776	449TTFS16553	20:1@	<b>\$36,759</b>	E9	96.2	448	3800	56.71	H,79	N/A
	1200	460	5011LS	E362	-----	N/A	<b>\$64,470</b>	S6	95.8	468	5500	67.19	77,79,90	N/A
<b>450</b>	1800	460	L447/9T	E777	-----	N/A	<b>\$37,584</b>	E9	96.5	515	3800	56.71	H,79	N/A
	1200	460	5013LS	E363	5013LSTFS6595	N/A	<b>\$85,984</b>	S6	96.2	525	7200	67.19	A,77,79,90	N/A
<b>500</b>	1800	460	5011LS	E364	5011LSTFS16031	N/A	<b>\$59,263</b>	S6	96.2	555	5500	67.19	77,79,90	N/A
	1200	460	5013LS	E365	-----	N/A	<b>\$87,202</b>	S6	96.2	580	7200	76.19	78,79,90	N/A
<b>600</b>	1800	460	5011LS	E366	5011LSTFS16033	N/A	<b>\$70,218</b>	S6	96.2	655	5500	67.19	A,77,79,90	N/A
<b>700</b>	1800	460	5013LS	E368	-----	N/A	<b>\$102,291</b>	S6	96.5	800	7200	76.19	A,78,79,90	N/A

Blue shaded areas are Cast Iron Frames

☆ **Stock Model**\* **Requires nameplate modification**  
@ **Requires larger fan**

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet or exceed U.S. EPA and/or NRC Canadian standards.

### Footnotes:

- A NEMA Design A
- H Class H Insulation
- RB Roller Bearing on shaft end for belted loads only
- 17 1.0 Service Factor
- 77 Frame size is drilled with three sets of footholes, 5010, 5011, and 5012 as standard. Foothole drilling for 5009 available upon request, as a build-up
- 78 Frame size is drilled with two sets of footholes, 5012 and 5013 standard
- 79 Ball bearings on both ends suitable for direct connection  
For belted applications, contact Customer Service
- 90 Not UL Recognized