

# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

**Applications:** General purpose use on compressors, pumps, conveyors, blowers, and other machinery in dirty and dusty environments. Substantial energy savings can be realized when using these high efficiency motors. Guaranteed efficiencies offer an **eXtra Return** on your **I**nvestment when using these premium efficiency motors on high cycle or long run time applications.

## General Purpose:

### C-Face Footed (Rigid Base)

#### Rigid Base



- 56 - 215T frames - Rolled Steel
- 254 - 256T frames - Aluminum

## Blue Chip®:

### Rigid Base



- 143T - 5011 frames - Cast Iron (shaded)



## Features:

**Meets or exceeds NEMA Premium® efficiencies, except where noted**

**NEMA Premium® models are in compliance with EISA2007**

- Suitable for use on a VFD. Variable Torque and Constant Torque (as noted)
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- F1 conduit box on Rigid Base, F3 on C-Face Footed (Rigid Base) motors
- Shaft slinger
- Class F insulation
- 1.15 Service Factor
- Ball bearings (except as noted)
- C-Face Footed models are rated 60/50 Hz, same HP
- Motors accept C-face kits, as noted
- UL Recognized, CSA Certified and CE Mark
- Three year warranty

## Models through 40 HP are capable of modification as follows (contact factory to confirm):

- 1.25 Service Factor (sinewave only)
- 50Hz at same HP, 1.0 Service Factor (sinewave only)
- Certain combinations of existing and new nameplate markings are not possible (contact factory to confirm)
- Any nameplate changes are subject to modification charges (see MOD Central section)
- Contact Marathon Electric for optional nameplate markings on 50 HP and larger

## Rigid Base

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	"C" DIM	FOOT NOTES	C-FACE KITS
<b>1</b>	3600	200	56H	<b>E2150</b>	56T34F16001		10:1	\$525	E9	80.0	3.2	11.31		A665
	3600	230/460	56H	<b>E2100</b>	56T34F15940	*	10:1	\$525	E9	80.0	2.8/1.4	11.31		A665
	3600	575	56H	<b>E2125</b>	56T34F16020		10:1	\$525	E9	80.0	1.1	11.31		A665
	1800	200	143T	<b>E2151</b>	143TTFR16038	*	10:1	\$435	E9	85.5	3.7	13.75		A642
	1800	230/460	143T	<b>E2101</b>	143TTFR15642	*	10:1	\$435	E9	85.5	3.2/1.6	13.75		A642
	1800	575	143T	<b>E2126</b>	143TTFR16040	*	10:1	\$435	E9	85.5	1.3	13.75		A642
	1200	200	145T	<b>E2152</b>	145TTFR16072		10:1	\$519	E9	82.5	4.4	13.75		A642
	1200	230/460	145T	<b>E2102</b>	145TTFR16078		10:1	\$519	E9	82.5	3.8/1.9	13.75		A642
	1200	575	145T	<b>E2127</b>	145TTFR16080		10:1	\$519	E9	82.5	1.5	13.75		A642
<b>1 1/2</b>	3600	200	143T	<b>E2153</b>	143TTFR16001		10:1	\$505	E9	84.0	4.6	13.75		A642
	3600	230/460	143T	<b>E2103</b>	143TTFR15582	*	10:1	\$505	E9	84.0	4.0/2.0	13.75		A642
	3600	575	143T	<b>E2128</b>	143TTFR16020		10:1	\$505	E9	84.0	1.6	13.75		A642
	3600	230/460	143T	<b>E351</b>	143TTTN6001	*	1000:1	\$573	E9	86.5	4.0/2.0	10.43	d,N	A603
	1800	200	145T	<b>E2154</b>	145TTFR16038	*	10:1	\$447	E9	86.5	5.5	13.75		A642
	1800	230/460	145T	<b>E2104</b>	145TTFR16033	*	10:1	\$447	E9	86.5	4.8/2.4	13.75		A642
	1800	575	145T	<b>E2129</b>	145TTFR16040	*	10:1	\$447	E9	86.5	1.9	13.75		A642
	1200	200	182T	<b>E2155</b>	182TTFW16072		10:1	\$664	E9	87.5	6.4	15.96	13	A666
	1200	230/460	182T	<b>E2105</b>	182TTFW16076	*	10:1	\$664	E9	87.5	5.6/2.8	15.96	13	A666
	1200	575	182T	<b>E2130</b>	182TTFW16080		10:1	\$664	E9	87.5	2.2	15.96	13	A666

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modifications

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

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# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	"C" DIM	FOOT NOTES	C-FACE KITS
<b>2</b>	3600	200	145T	<b>E2156</b>	145TTFR16001		10:1	\$541	E9	85.5	5.5	13.75		A642
	3600	230/460	145T	<b>E2106</b>	145TTFR13002	*	10:1	\$541	E9	85.5	4.8/2.4	13.75		A642
	3600	575	145T	<b>E2131</b>	145TTFR16020		10:1	\$541	E9	85.5	1.9	13.75		A642
	3600	230/460	145T	<b>E353</b>	145TTTN6001	*	1000:1	\$601	E9	85.5	5.0/2.5	11.43	d,N,20	A603
	1800	200	145T	<b>E2157</b>	145TTFR16039	*	10:1	\$491	E9	86.5	6.7	14.25		A642
	1800	230/460	145T	<b>E2107</b>	145TTFR16035	*	10:1	\$491	E9	86.5	5.8/2.9	14.25		A642
	1800	575	145T	<b>E2132</b>	145TTFR16045	*	10:1	\$491	E9	86.5	2.3	14.25		A642
	1200	200	184T	<b>E2158</b>	184TTFW16072		10:1	\$785	E9	88.5	8.3	15.97	13	A666
	1200	230/460	184T	<b>E2108</b>	184TTFW16076	*	10:1	\$785	E9	88.5	7.2/3.6	15.97	13	A666
	1200	575	184T	<b>E2133</b>	184TTFW16080		10:1	\$785	E9	88.5	2.9	15.97	13	A666
<b>3</b>	3600	200	182T	<b>E2159</b>	182TTFW16002		10:1	\$727	E9	86.5	8.7	13.97	13	A666
	3600	230/460	182T	<b>E2109</b>	182TTFW16001	*	10:1	\$727	E9	86.5	7.6/3.8	13.97	13	A666
	3600	575	182T	<b>E2134</b>	182TTFW16020		10:1	\$727	E9	86.5	3.0	13.97	13	A666
	3600	230/460	182T	<b>E216</b>	182TTTS6001	*	1000:1	\$825	E9	89.5	7.6/3.8	12.71	d,N,20	A644
	1800	200	182T	<b>E2160</b>	182TTFW16038	*	10:1	\$648	E9	89.5	9.0	14.97	13	A666
	1800	230/460	182T	<b>E2110</b>	182TTFW16026	*	10:1	\$648	E9	89.5	7.8/3.9	14.97	13	A666
	1800	575	182T	<b>E2135</b>	182TTFW16040	*	10:1	\$648	E9	89.5	3.1	14.97	13	A666
	1800	575	182T	<b>E303</b>	182TTTS6030	*	1000:1	\$740	E9	90.2	3.2	12.71	d,N	A644
	1200	200	213T	<b>E2161</b>	213TTFW16072		10:1	\$960	E9	89.5	10.1	19.47		A609
	1200	230/460	213T	<b>E2111</b>	213TTFW16076	*	10:1	\$960	E9	89.5	8.8/4.4	19.47		A609
	1200	575	213T	<b>E2136</b>	213TTFW16080		10:1	\$960	E9	89.5	3.5	19.47		A609
	<b>5</b>	3600	200	184T	<b>E2162</b>	184TTFW16002		10:1	\$825	E9	88.5	13.8	16.47	13
3600		230/460	184T	<b>E2112</b>	184TTFW16001	*	10:1	\$825	E9	88.5	12.0/6.0	16.47	13	A666
3600		575	184T	<b>E2137</b>	184TTFW16020		10:1	\$825	E9	88.5	4.8	16.47	13	A666
1800		200	184T	<b>E2163</b>	184TTFW16038	*	10:1	\$758	E9	89.5	14.7	15.97	13	A666
1800		230/460	184T	<b>E2113</b>	184TTFW16026	*	10:1	\$758	E9	89.5	12.8/6.4	15.97	13	A666
1800		575	184T	<b>E2138</b>	184TTFW16040	*	10:1	\$758	E9	89.5	5.1	15.97	13	A666
1200		200	215T	<b>E2164</b>	215TTFW16072		10:1	\$1,240	E9	90.2	16.1	20.97		A609
1200		230/460	215T	<b>E2114</b>	215TTFW16076	*	10:1	\$1,240	E9	90.2	14.0/7.0	20.97		A609
1200		575	215T	<b>E2139</b>	215TTFW16080		10:1	\$1,240	E9	90.2	5.6	20.97		A609
<b>7 1/2</b>		3600	230/460	213T	<b>E2115</b>	213TTFW16001	*	10:1	\$997	E9	90.2	17.8/8.9	20.97	
	3600	230/460	213T	<b>E218</b>	213TTTS6001	*	1000:1	\$1,108	E9	90.2	17.8/8.9	15.69	d,N	A206
	3600	575	213T	<b>E2140</b>	213TTFW16020		10:1	\$997	E9	90.2	7.1	20.97		A609
	1800	230/460	213T	<b>E2116</b>	213TTFW16026	*	10:1	\$935	E9	91.7	21.6/10.8	18.70		A667
	1800	575	213T	<b>E2141</b>	213TTFW16040	*	10:1	\$935	E9	91.7	8.6	18.70		A667
	1200	230/460	254T	<b>E2117</b>	254TTFL16076	*	10:1	\$1,751	E9	91.0	19.5/9.75	22.99		A1209
	1200	230/460	254T	<b>E235</b>	254TTFNA6076	*	20:1	\$1,751	E9	91.0	19.8/9.9	23.52	d	A284
	1200	575	254T	<b>E2142</b>	254TTFL16080		10:1	\$1,751	E9	91.0	8.2	22.99		A1209
<b>10</b>	3600	230/460	215T	<b>E2118</b>	215TTFW16001	*	10:1	\$1,100	E9	91.7	23.6/11.8	22.22		A609
	3600	575	215T	<b>E2143</b>	215TTFW16020		10:1	\$1,100	E9	91.7	9.4	22.22		A609
	1800	230/460	215T	<b>E2119</b>	215TTFW16026	*	10:1	\$1,065	E9	91.7	26.8/13.4	19.70		A667
	1800	575	215T	<b>E2144</b>	215TTFW16040	*	10:1	\$1,065	E9	91.7	10.7	19.70		A667
	1800	575	215T	<b>E306</b>	215TTFS6030		20:1	\$1,266	E9	91.7	10.0	19.70	X	A206
	1200	230/460	256T	<b>E2120</b>	256TTFL16076	*	10:1	\$2,139	E9	91.0	26.5/13.3	26.24		A1209
	1200	230/460	256T	<b>E236</b>	256TTFNA6076	*	20:1	\$2,139	E9	91.0	26.2/13.1	25.27	d	A284
	1200	575	256T	<b>E2145</b>	256TTFL16080		10:1	\$2,139	E9	91.0	11.4	26.24		A1209

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## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	"C" DIM	FOOT NOTES	C-FACE KITS
<b>150</b>	3600	460	445TS	<b>E230</b>	445TSTFN6001	★	2:1	\$17,952	E9	95.8	165	39.44		A621
	1800	460	445T	<b>E215</b>	445TTFN6036	★	20:1@	\$15,428	E9	95.8	172	43.19		A621
	1800	575	445T	<b>E317</b>	445TTFN6037		20:1@	\$15,428	E9	95.8	138	43.19	PW	A621
	1200	460	445T	<b>E289</b>	445TTFN6087		20:1@	\$19,470	E9	95.8	181	43.19	RB	N/A
<b>200</b>	3600	460	445TS	<b>E342</b>	445TSTFN16004	★	2:1	\$22,710	E9	95.8	222	39.44		A621
	1800	460	445T	<b>E247</b>	445TTFN6038	★	20:1@	\$18,763	E9	96.2	226	43.19	RB	N/A
	1800	575	445T	<b>E326</b>	445TTFN6039		20:1@	\$18,763	E9	96.2	181	43.19	RB	N/A
	1200	460	447/9T	<b>E282</b>	449TTFN6088	★	20:1@	\$23,834	E9	95.8	240	51.69	H, RB	N/A
<b>250</b>	3600	460	447/9TS	<b>E271</b>	449TSTFS6003		2:1	\$28,641	E9	96.5	274	47.88	H	A624
	1800	460	445T	<b>E287</b>	445TTFN6040		20:1@	\$22,119	E9	95.8	285	43.19	RB, NP	N/A
	1800	460	447/9T	<b>E276</b>	449TTFN6038		20:1@	\$23,778	E9	96.5	285	51.69	H, RB	N/A
	1200	460	L447/9T	<b>E283</b>	449TTFN6087		20:1@	\$27,398	E9	95.8	300	51.69	H, RB	N/A
<b>300</b>	3600	460	447/9TS	<b>E272</b>	449TSTFS6002		2:1	\$37,124	E9	96.2	330	47.88	H	A624
	1800	460	447/9T	<b>E277</b>	449TTFN6037		20:1@	\$26,900	E9	96.5	339	51.69	H, RB	N/A
	1200	460	L447/9T	<b>E284</b>	449TTFN6390		N/A	\$36,173	E9	95.8	362	56.71	H, RB	N/A
<b>350</b>	3600	460	447/9TS	<b>E273</b>	449TSTFS6001		2:1	\$42,573	E9	96.2	382	47.88		A624

XRI® - PREMIUM EFFICIENCY

## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	"C" DIM	FOOT NOTES
<b>1</b>	3600	208-230/460	56C	<b>E2000</b>	56T34F5940	★	10:1	\$554	E9	80.0	3.0-2.8/1.4	11.31	
	1800	208-230/460	143TC	<b>E2001</b>	143TTFR5642	★	10:1	\$445	E9	85.5	3.2-3.2/1.6	13.75	
	1200	208-230/460	145TC	<b>E2002</b>	145TTFR6078	★	10:1	\$536	E9	82.5	3.8-3.8/1.9	13.75	
<b>1 1/2</b>	3600	208-230/460	143TC	<b>E2003</b>	143TTFR5582	★	10:1	\$515	E9	84.0	4.4-4.0/2.0	13.75	
	1800	208-230/460	145TC	<b>E2004</b>	145TTFR6033	★	10:1	\$485	E9	86.5	5.2-4.8/2.4	13.75	
	1200	208-230/460	182TC	<b>E2005</b>	182TTFR6076	★	10:1	\$701	E9	87.5	4.8-4.4/2.2	16.19	d
	1200	208-230/460	182TC	<b>E2005</b>	182TTFW6076	★	10:1	\$701	E9	87.5	6.0-5.1/2.6	14.47	13
<b>2</b>	3600	208-230/460	145TC	<b>E2006</b>	145TTFR3002	★	10:1	\$571	E9	85.5	5.2-4.8/2.4	13.75	
	1800	208-230/460	145TC	<b>E2007</b>	145TTFR6035	★	10:1	\$531	E9	86.5	6.0-5.8/2.9	14.25	
	1200	208-230/460	184TC	<b>E2008</b>	184TTFR6076	★	10:1	\$803	E9	88.5	6.4-6.0/3.0	17.19	d
	1200	208-230/460	184TC	<b>E2008</b>	184TTFW6076	★	10:1	\$803	E9	88.5	7.4-6.4/3.2	14.97	13
<b>3</b>	3600	208-230/460	182TC	<b>E2009</b>	182TTFR6001	★	10:1	\$740	E9	87.5	8.0-7.6/3.8	15.69	d
	3600	208-230/460	182TC	<b>E2009</b>	182TTFW6001	★	10:1	\$664	E9	87.5	8.4-7.8/3.9	13.97	13
	1800	208-230/460	182TC	<b>E2010</b>	182TTFR6026	★	10:1	\$740	E9	89.5	8.4-8.0/4.0	15.69	d
	1800	208-230/460	182TC	<b>E2010</b>	182TTFW6026	★	10:1	\$664	E9	89.5	8.4-7.8/3.9	13.97	13
	1200	208-230/460	213TC	<b>E2011</b>	213TTFW6076	★	10:1	\$979	E9	89.5	9.2-8.8/4.4	19.47	
<b>5</b>	3600	208-230/460	184TC	<b>E2012</b>	184TTFR6001	★	10:1	\$858	E9	88.5	13.2-12.0/6.0	16.67	d
	3600	208-230/460	184TC	<b>E2012</b>	184TTFW6001	★	10:1	\$775	E9	88.5	13.0-12.0/6.0	17.19	13
	1800	208-230/460	184TC	<b>E2013</b>	184TTFR6026	★	10:1	\$858	E9	90.2	13.8-12.4/6.2	16.67	d
	1800	208-230/460	184TC	<b>E2013</b>	184TTFW6026	★	10:1	\$775	E9	90.2	13.7-12.6/6.3	14.97	13
	1200	208-230/460	215TC	<b>E2014</b>	215TTFW6076	★	10:1	\$1,261	E9	90.2	15.0-14.0/7.0	20.97	
<b>7 1/2</b>	3600	208-230/460	213TC	<b>E2015</b>	213TTFW6001	★	10:1	\$1,054	E9	91.7	19.7-17.8/8.9	20.97	
	1800	208-230/460	213TC	<b>E2016</b>	213TTFW6026	★	10:1	\$957	E9	91.7	21.0-19.4/9.7	20.97	
<b>10</b>	3600	208-230/460	215TC	<b>E2018</b>	215TTFW6001	★	10:1	\$1,122	E9	91.7	26.4-23.6/11.8	22.22	
	1800	208-230/460	215TC	<b>E2019</b>	215TTFW6026	★	10:1	\$1,089	E9	91.7	28.0-25.6/12.8	22.22	

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\* Requires nameplate modifications

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