ABB BALDOR RELIANCE

Customer information packet

EM2558T-4

150HP, 1780RPM, 3PH, 60HZ, 444T, 1868M, OPEN
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	170.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	170.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2176
Layout	617428-042
Eff. date	12-10-2025
CD Diagram	416820-008
Poles	04
Leads	6#2
Proprietary	False
Created date	09-08-2015

Number of Poles	4
Overall Length	39.71 IN
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2377L													
CAT.NO.	EM2558T-4				**SPEC NO.**	A44-0003-2176							
HP	150	**AMPS**	170			**VOLTS**	460			**DESIGN**	B		
FRAME	444T	**RPM**	1785	**HZ**	60	**AMB**	40	**SF**	1.15				
DRIVE END BEARING	90BC03J30X		**PHASE**	3	**DUTY**	CONT		**INSUL.CLASS**	F				
OPP D.E. BEARING	90BC03J30X	**TYPE**	P	**ENCL**	DP	**CODE**	G						
SER.NO.			**POWER FACTOR**	86			**NEMA-NOM-EFFICIENCY**	96.2					
					MAX CORR KVAR	30	**GUARANTEED EFFICIENCY**	95.4					
					NEMA NOM/CSA QUOTED EFF								
					MOTOR WEIGHT								

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	150	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
170	CONT	40/F	1.15	B	G	ODP

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
497213	418143-040-PE	---	---	.0318

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	59.9	1800	3.40	0
1/4	37.5	72.2	1797	51.8	94.0
2/4	75.0	99.1	1793	73.7	96.1
3/4	112	133	1790	82.3	96.4
4/4	150	170	1786	85.9	96.2
5/4	187	210	1782	87.1	95.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	148	655	1085
PULL UP	720	139	615	1025
BREAKDOWN	1725	252	1110	630
FULL LOAD	1786	100	441	170

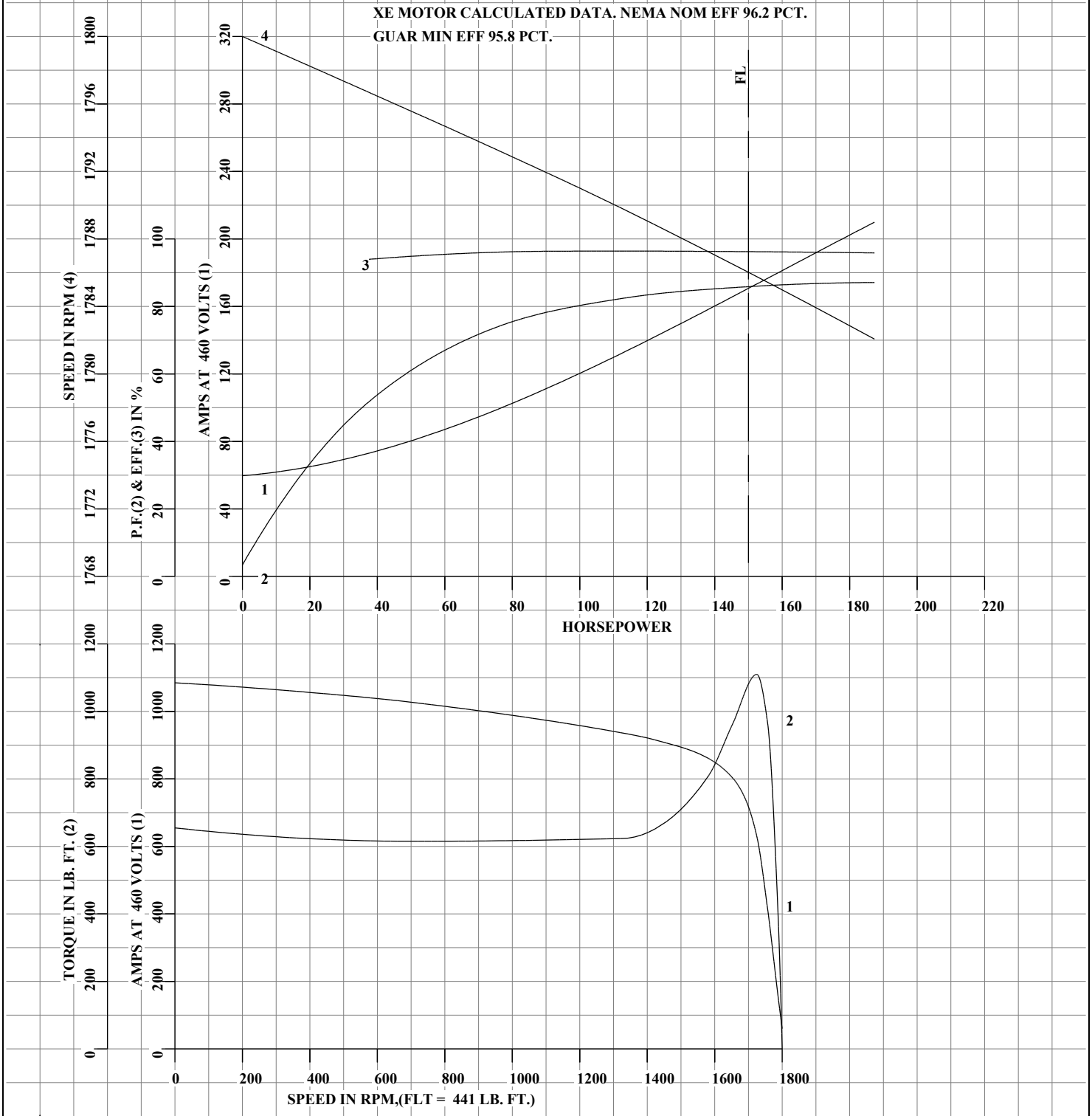
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

XE MOTOR CALCULATED DATA. NEMA NOM EFF 96.2 PCT.
GUAR MIN EFF 95.8 PCT.

ABB	DRAWN BY: J. P. TSAO CHECKED BY: J. P. TSAO APPROVED BY: W. L. SMITH DATE: 09/16/26	AC MOTOR PERFORMANCE DATA	A44WG2176-R001 DATE ISSUED 09/16/26

FRAME 444T	RPM 1785	S.F. 1.15	ROTOR 418143-040-PE
HP 150	VOLTS 460	NEMA DESIGN B	TEST S.O. ---
TYPE P	AMPS 170	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE ODP	STATOR RES. @ 25°C .0318
	AMB °C / INSUL 40/F	E/S 497213	OHMS (BETWEEN LINES)

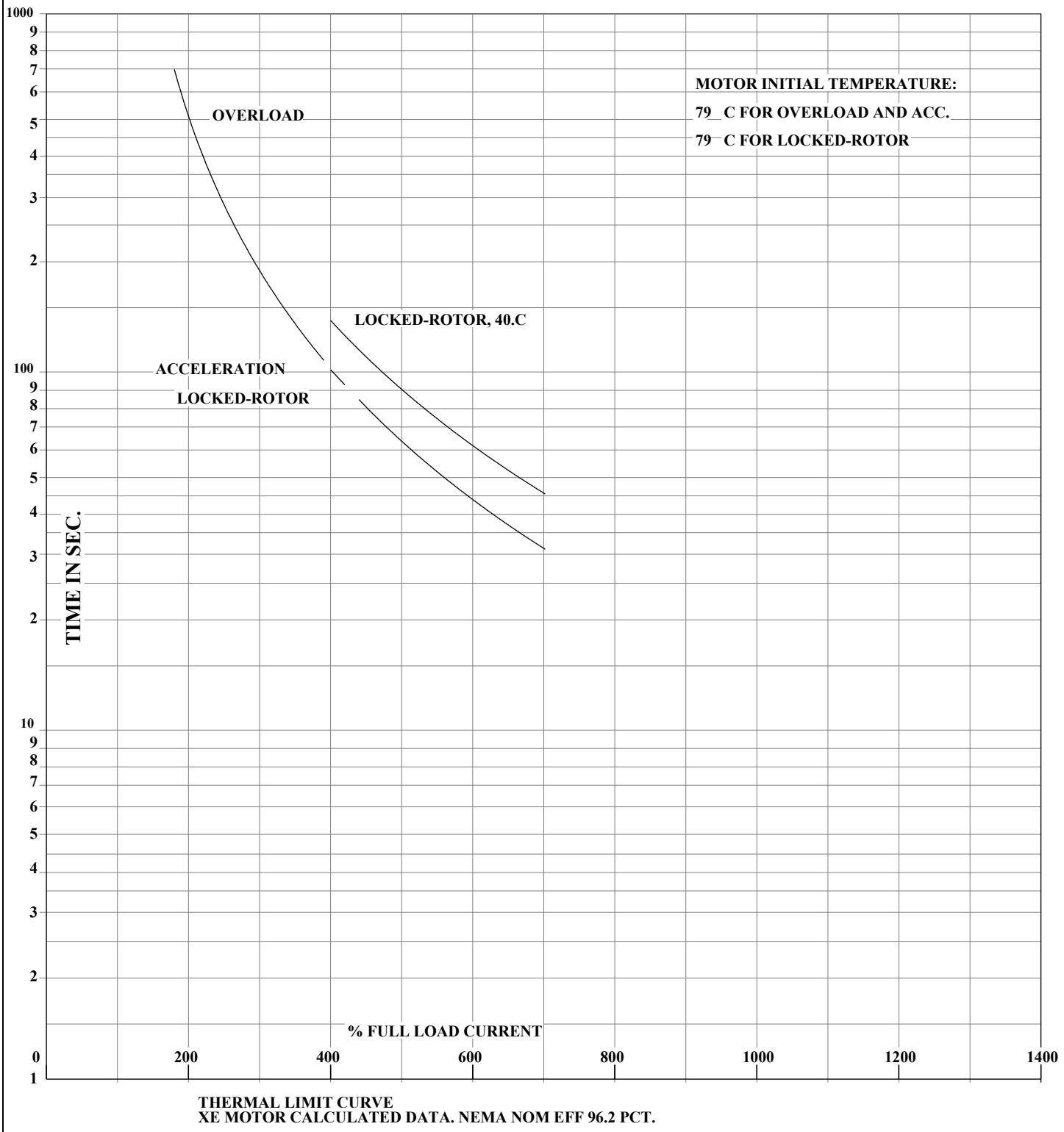
XE MOTOR CALCULATED DATA. NEMA NOM EFF 96.2 PCT.
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	AMB °C / INSUL 40/F	E/S 497213	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR CALCULATED DATA. NEMA NOM EFF 96.2 PCT.

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617428-042

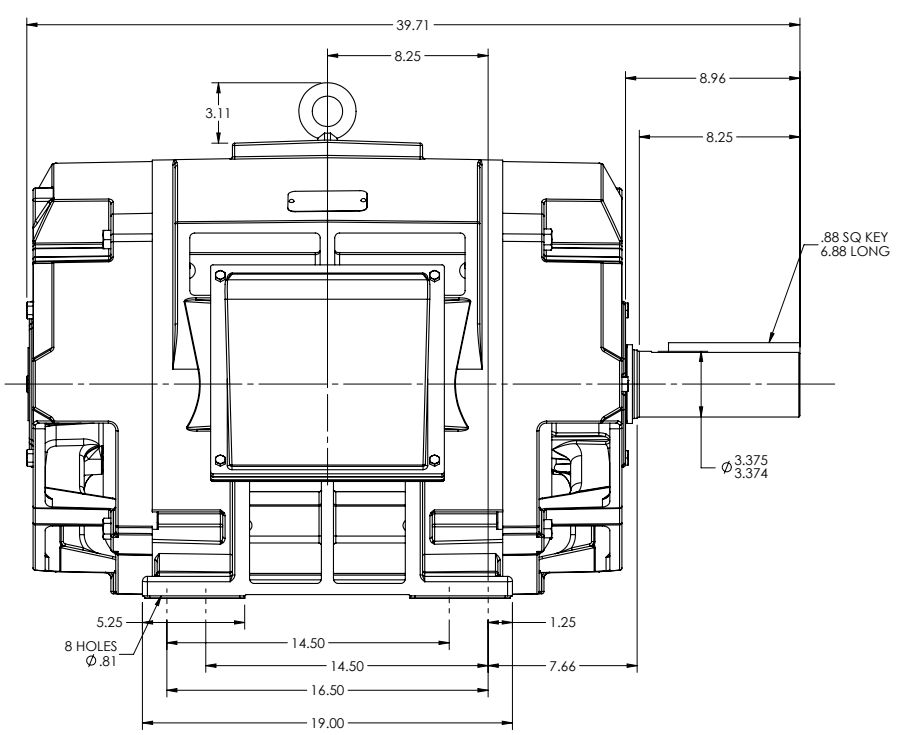
DUTY MASTER ALTERNATING CURRENT MOTORS

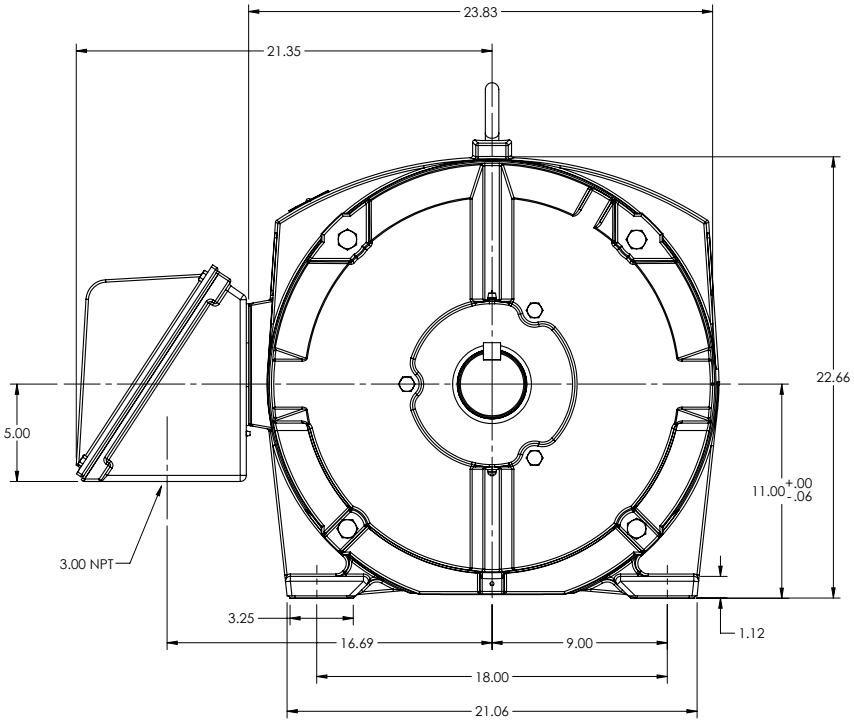
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 444T-445T

COOLING: SELF-VENTILATED





MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): 444T = 1735
445T = 1775

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO BUS			
REV: -	VERSION: 00	REVISED: 11:30:51 09/10/2013	TDR: 000000816903
MODEL NO. 617428-042			REF:
BY: ENALEM0			B

BALDOR

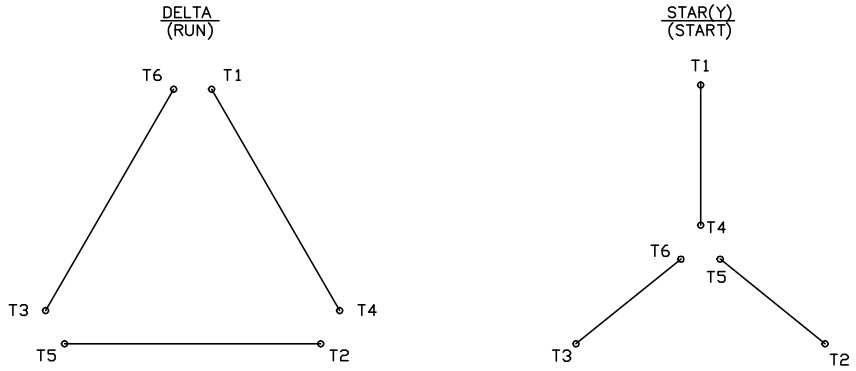
DIM SHEET HOR 444-445T OPEN

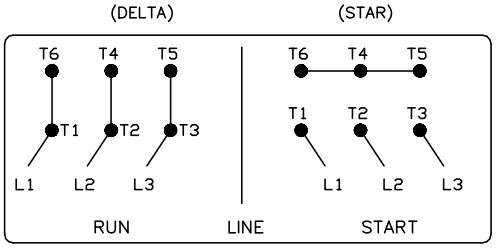
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416820–008

A–C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN





(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10:41:26 04/08/2014	BY: RAGJSS1
MTL: –		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

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