ABB BALDOR RELIANCE

Customer information packet

EM25254T-4

250HP, 1785RPM, 3PH, 60HZ, 447T, A44100M, DP, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	447T
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	250.000 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	275.000 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	275.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44100M
Mounting Arrangement	F1

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1484
Layout	604989-507
Eff. date	08-28-2025
CD Diagram	416820-008
Poles	04
Leads	6#1/0
Proprietary	False
Created date	10-19-2010

Number of Poles	4
Overall Length	43.12 IN
Power Factor	88
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.	EM25254T-4				**SPEC NO.**	P44G1775						
HP	250	**AMPS**	275			**VOLTS**	460			**DESIGN**	B	
FRAME	447T	**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**	88				**NEMA-NOM-EFFICIENCY**	96.2			
						MAX CORR KVAR	40.0	**GUARANTEED EFFICIENCY**	95.8			
						NEMA NOM/CSA QUOTED EFF						
						MOTOR WEIGHT						

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447T	250	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
275	CONT	40/F	1.15	B	G	DP

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
433743	418143047XE	---	---	.0174

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	67.3	1800	4.09	0
1/4	62.6	93.8	1796	65.8	94.9
2/4	125	145	1792	83.6	96.5
3/4	187	208	1788	87.5	96.6
4/4	250	275	1784	88.2	96.3
5/4	313	345	1780	88.4	95.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	149	1095	1802
PULL UP	1360	117	864	1548
BREAKDOWN	1723	237	1742	895
FULL LOAD	1784	100	736	275

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

REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

BALDOR

DR. BY W. L. SMITH
CK. BY J.J.HARRISON
APP. BY J. P. TSAO
DATE 05/14/04

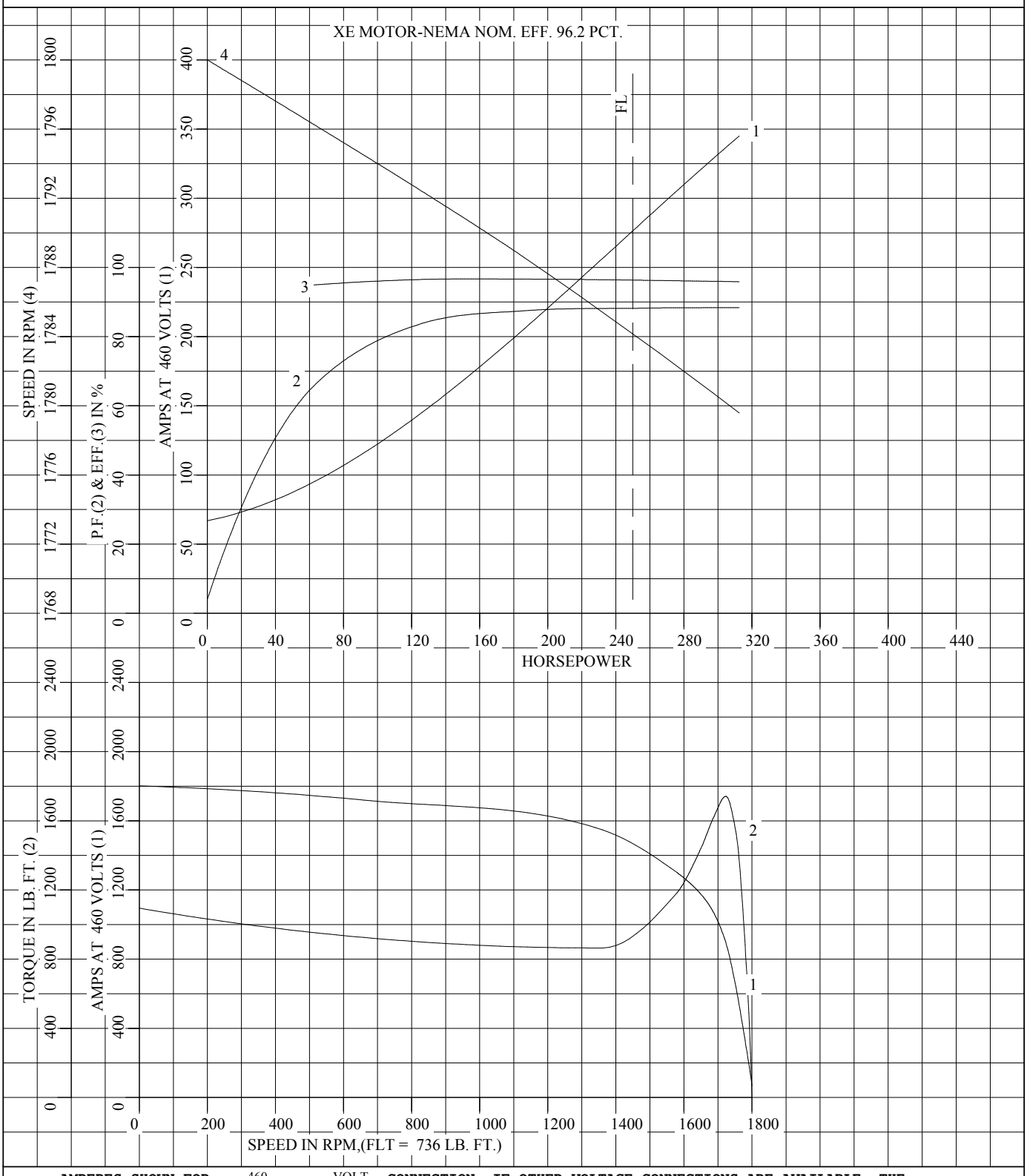
A-C MOTOR PERFORMANCE DATA

A44WG1484-R001
ISSUE DATE 12/18/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 447T	RPM 1785	S.F. 1.15	ROTOR 418143047XE
HP 250	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 275	CODE LETTER G	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE DP	STATOR RES.@ 25 ℃ .0174
	AMB ℃/INSUL 40/F	E/S 433743	OHMS (BETWEEN LINES)



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

BALDOR

DR. BY	W. L. SMITH
CK. BY	J.J.HARRISON
APP. BY	J. P. TSAO
DATE	05/14/04

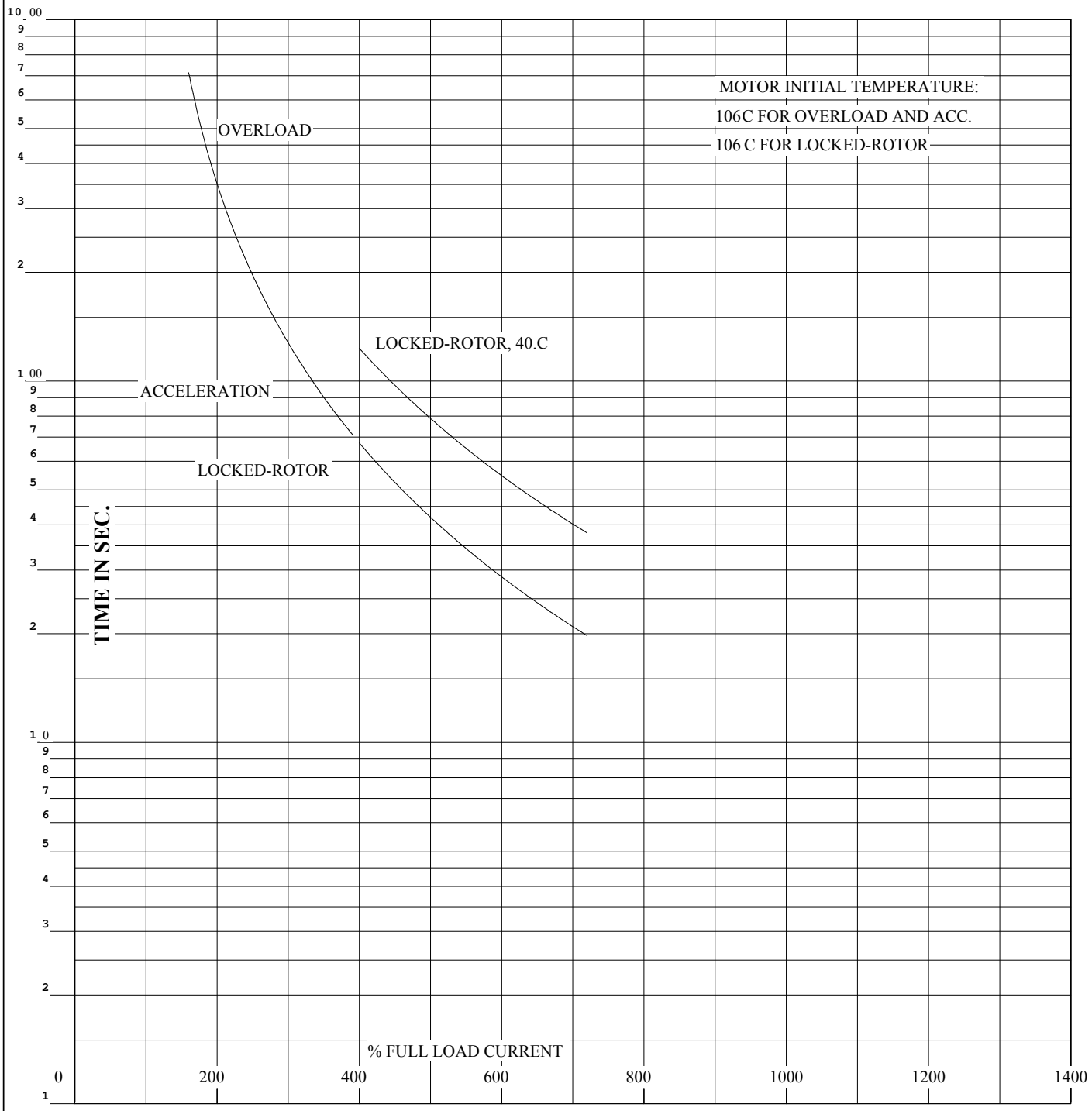
A–C MOTOR PERFORMANCE CURVES

A44WG1484-R001

ISSUE DATE 12/18/10

Printed on 12/18/10 5:58 @ psecs-motoreng

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 418143047XE
FRAME 447T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 275	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE DP	STATOR RES.@ 25 ℃.0174
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 433743	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

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

BALDOR	DR. BY W. L. SMITH CK. BY J.J.HARRISON APP. BY J. P. TSAO DATE 05/14/04	**A-C MOTOR PERFORMANCE CURVES**	**A44WG1484-R001** ISSUE DATE 12/18/10

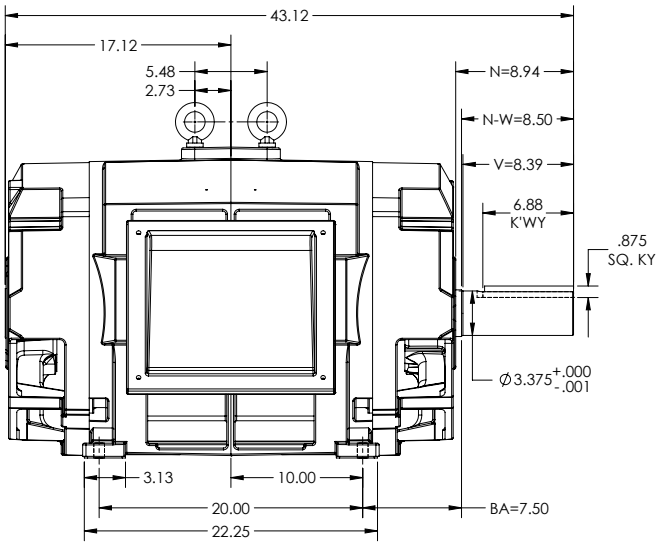
604989-507

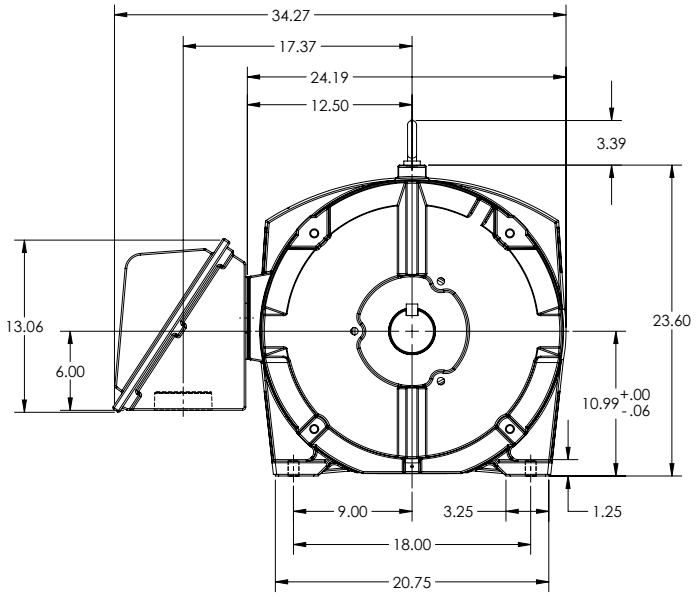
DUTY MASTER ALTERNATING CURRENT MOTORS

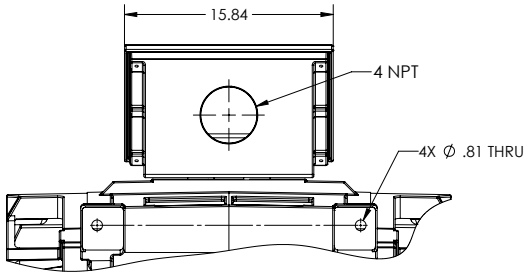
SQUIRREL-CAGE INDUCTION

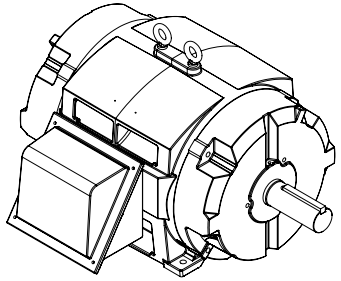
ENCLOSURE: OPEN DRIP-PROOF (PROTECTED) FRAME E447T COOLING: SELF-VENTILATED

MOUNTING: FOOT, F-1 SIDE, WITH STD CAST IRON C/BOX









WEIGHT (LBS)= 1730

WEIGHT MAY VARY 15% DEPENDING ON RATING

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

604989-507

REV. DESC: NEW DWG			
REV: -	VERSION: 00	REVISED: 10:39:34 04/23/2015	TDR: 000000921402
MODEL NO. 604989-507			
BY: RAGHZT			C

BALDOR

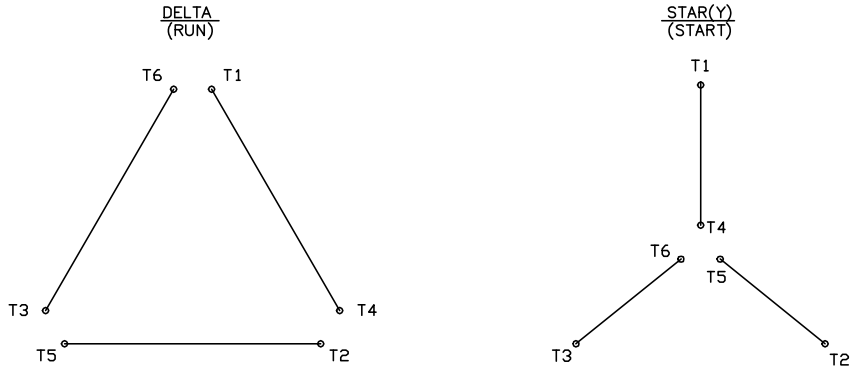
E447T PROT F-1 FT WITH CAST IRON BOX

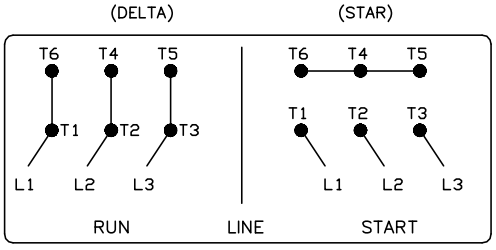
604989-507

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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