

ABB BALDOR RELIANCE III

Customer information packet

EM2572T-4

350HP, 1780RPM, 3PH, 60HZ, 449T, DP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	449T
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	350.000 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	382.000 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	382.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44128M

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3196
Layout	604989-505
Eff. date	03-01-2017
CD Diagram	416820-008
Poles	04
Leads	6#2 (02 per group)
Proprietary	False
Created date	11-25-2015

Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.12 IN
Power Factor	89
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-8066-3196			CAT.NO.	EM2572T-4				FRAME	449T	
HP	350	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P		
RPM	1780	AMPS	382	HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	90BC03J30X		DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	90BC03J30X		ENCL	DP	CODE	F					
SER.NO.				POWER FACTOR		89	NEMA-NOM-EFFICIENCY			96.2	
						MAX CORR KVAR		48	GUARANTEED EFFICIENCY		95.4
						NEMA NOM/CSA QUOTED EFF					
									MOTOR WEIGHT		2694

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	449T	350	P	3/60	1780	460			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
382	CONT	40/B	1.15	B	F	PRXE			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
433856	418143049LE	---	---	.0126					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	80.6	1800	4.45	0				
1/4	87.6	120	1796	71.8	95.2				
2/4	175	195	1792	87.1	96.6				
3/4	262	285	1787	89.4	96.6				
4/4	350	382	1782	89.2	96.2				
5/4	438	483	1777	88.8	95.6				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	146	1501	2349				
PULL UP		1360	130	1339	1921				
BREAKDOWN		1723	233	2400	1233				
FULL LOAD		1782	100	1031	382				
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE									
REMARKS: CALCULATED DATA XE MOTOR-NEMA NOM. EFF. 96.2 PCT.									
		DR. BY W. L. SMITH		A-C MOTOR PERFORMANCE A44WG3196-R001 DATA ISSUE DATE 07/25/05					
		CK. BY J. J. HARRISON							
		APP. BY W. L. SMITH							
		DATE 07/27/05							

FRAME 449T

VOLTS 460

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 350

AMPS 382

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PRXE

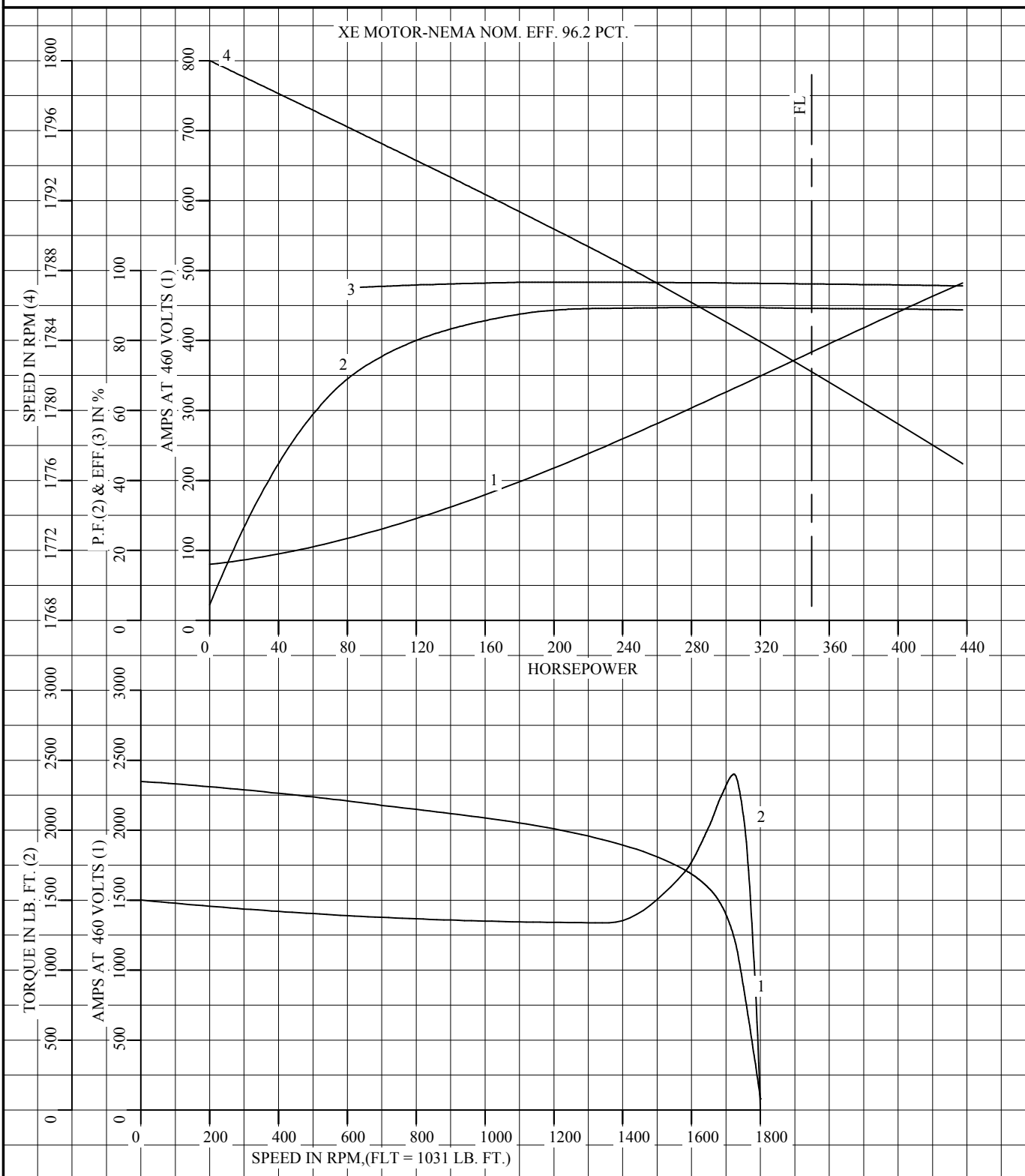
STATOR RES. @ 25 °C .0126

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 433856

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 W. L. SMITH
DATE 07/27/05

**A-C MOTOR
PERFORMANCE
CURVES** A44WG3196-R001
ISSUE DATE 07/25/05

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

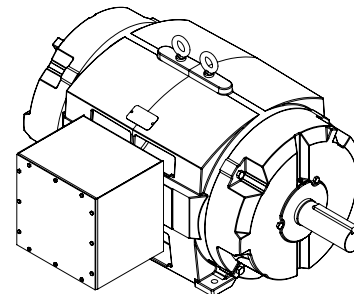
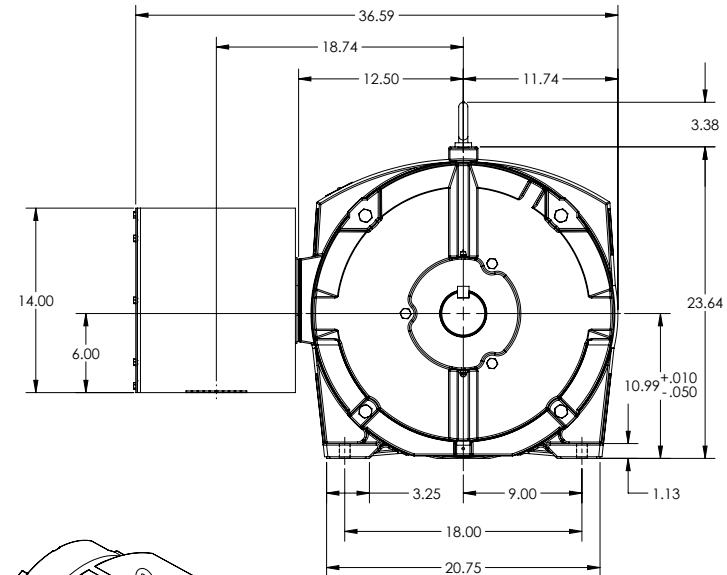
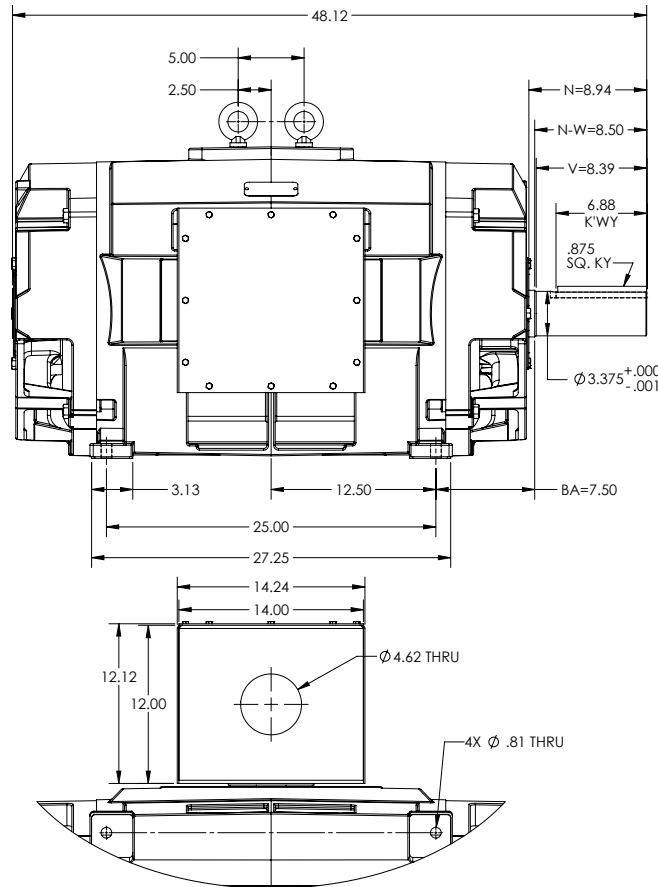
ENCLOSURE: PROTECTED; OPEN DRIP PROOF

FRAME E449T

COOLING: SELF-VENTILATED

MOUNTING: FOOT, F-1 SIDE

14X14X12 FABRICATED STEEL C/BOX



MOTOR WRIGHT: 2100 LBS
*MAY VARY BY 15% DEPENDING ON RATING

DIMENSIONS ARE IN INCHES

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

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.

SHEET NUMBER
1 OF 1

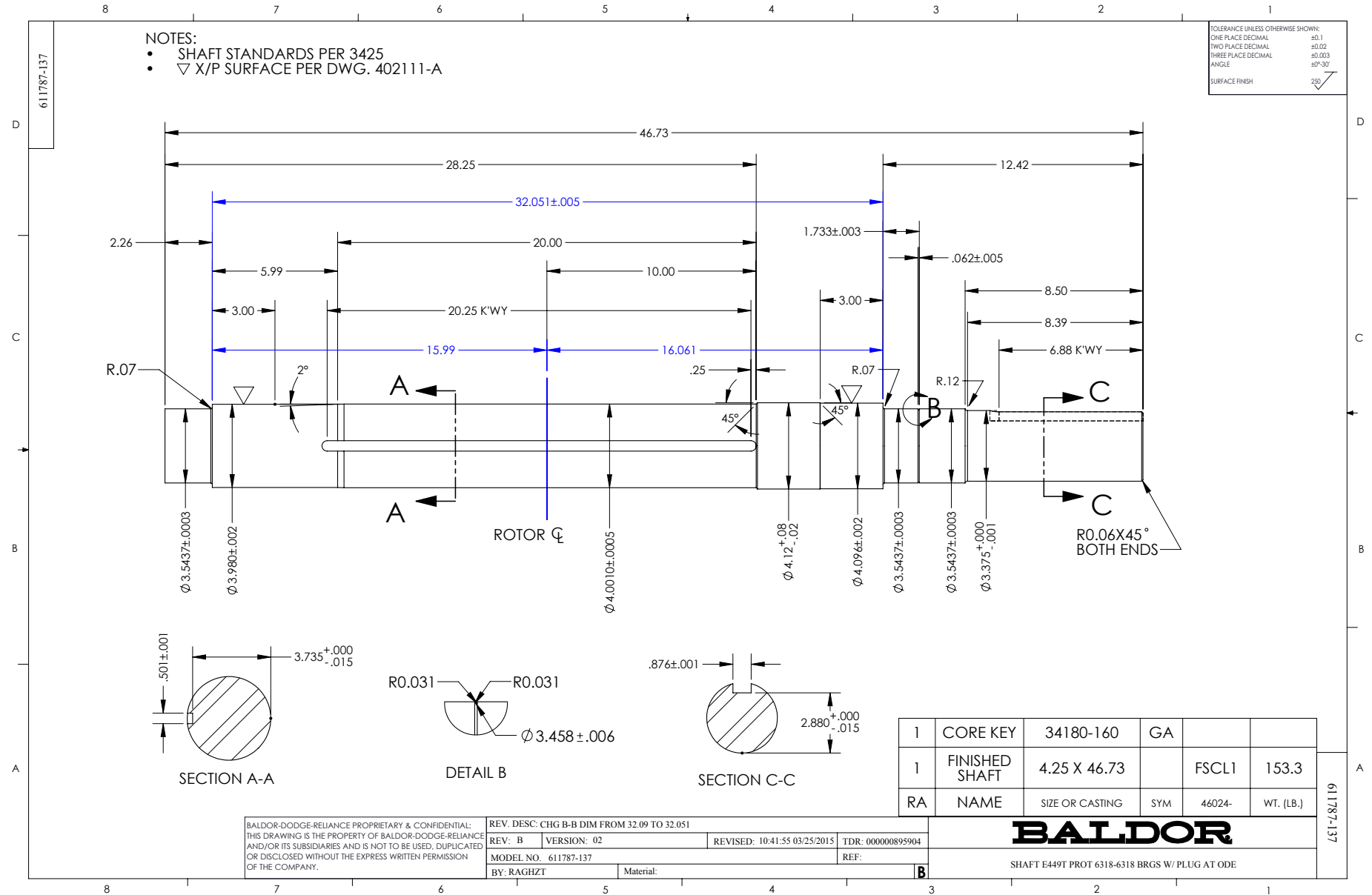
505-686F09

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM	VERSION: 02	REVISED: 07-28-44 07/14/2022	TDR: 000001193529
MODEL NO. 604989-505			
BY: USBUFA			

BALDOR

449T PROT F-1 FT - 14X14X12 FAB STL C/BOX

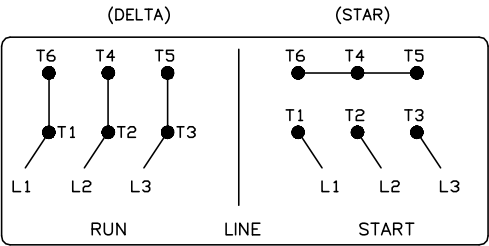
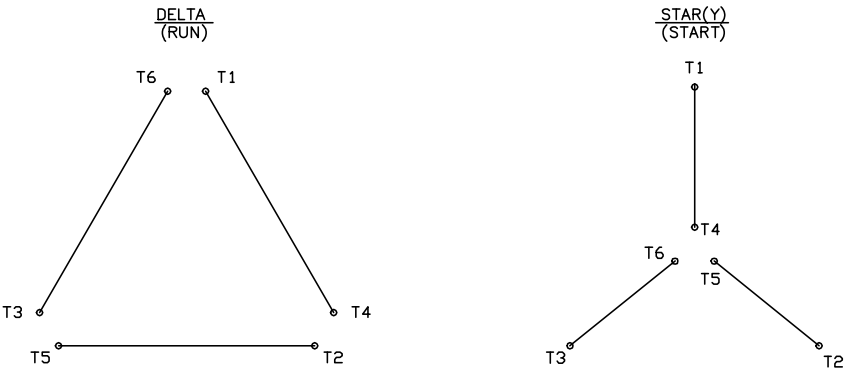
505-686F09



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

416820-008