

ABB BALDOR RELIANCE III

Customer information packet

EM251352T-4

350HP, 3560RPM, 3PH, 60HZ, 447TSS, A44084M, DP

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	447TSSTS
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	3600 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	381.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	381.0 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	A44084M

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2772
Layout	604989-483
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	02
Leads	6#2 (02 per group)
Proprietary	False
Created date	02-12-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	39.37 IN
Power Factor	90
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None

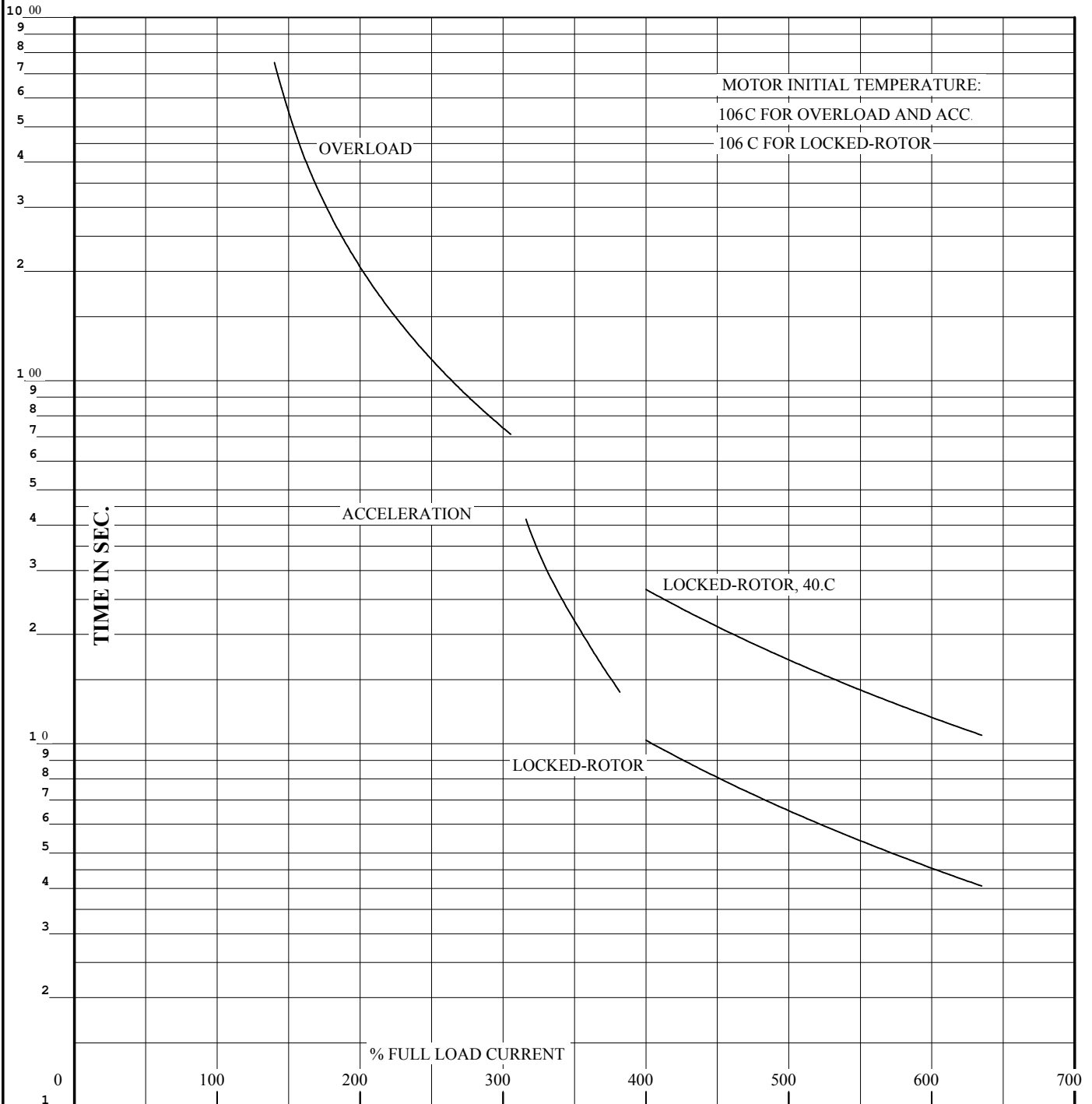
Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-6795-2772			CAT.NO.	EM251352T-4				FRAME	447TSS/T	
HP	350	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P		
RPM	3560	AMPS	381	HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X		DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X		ENCL	DP	CODE	F					
SER.NO.				POWER FACTOR		90	NEMA-NOM-EFFICIENCY			95.4	
						MAX CORR KVAR		45	GUARANTEED EFFICIENCY		94.5
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					

REL. S.O.	RPM 3560	S.F. 1.15	ROTOR 418143014ZE
FRAME 447TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 350	AMPS 381	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE ODP	STATOR RES. @ 25 °C .0127
PHASE/HERTZ 3/60	AMB °C/INSUL 40/B	E/S 433582	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOM. EFF. 95.4 PCT
CALCULATED

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



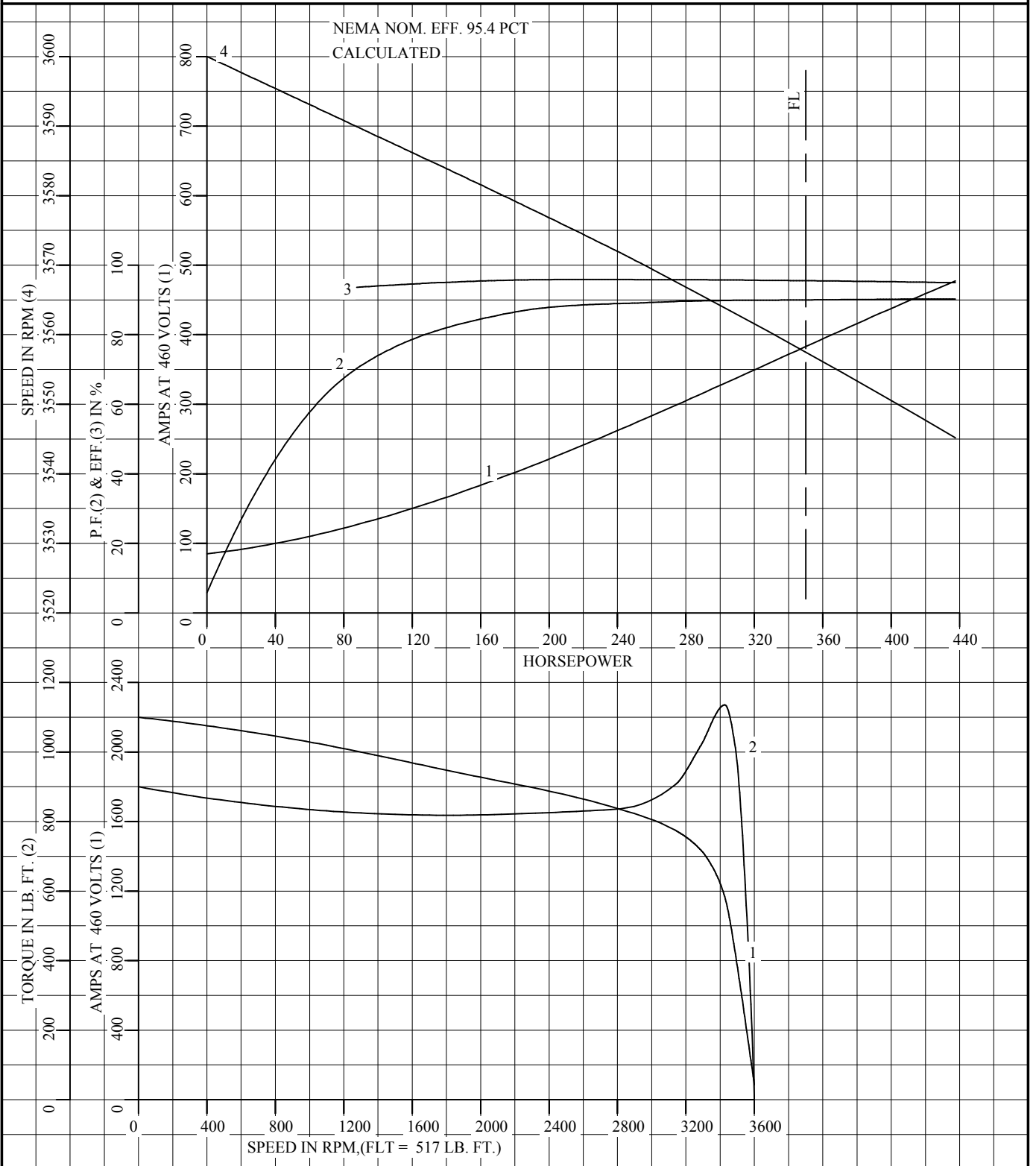
DR. BY	E.J. CHRISTIAN
CK. BY	E.J. CHRISTIAN
APP. BY	T.G. KELATI
DATE	08/12/15

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2772-R004
ISSUE DATE 08/12/15 Page 6 of 10

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447TS	350	P	3/60	3560	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
381	CONT	40/B	1.15	B	F	ODP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
433582	418143014ZE	---	---	.0127		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	85.7	3600	5.80	0	
1/4	87.6	125	3590	70.3	93.6	
2/4	175	199	3580	86.1	95.6	
3/4	262	287	3569	89.3	95.8	
4/4	350	381	3558	90.0	95.5	
5/4	438	478	3545	90.3	95.0	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	174	900	2200	
PULL UP		1800	158	818	1895	
BREAKDOWN		3428	220	1136	1164	
FULL LOAD		3558	100	517	381	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA NOM. EFF. 95.4 PCT CALCULATED						
		DR. BY E. J. CHRISTIAN		A-C MOTOR PERFORMANCE DATA A44WG2772-R004 ISSUE DATE 08/12/15		
		CK. BY E. J. CHRISTIAN				
		APP. BY T. G. KELATI				
		DATE 08/12/15				

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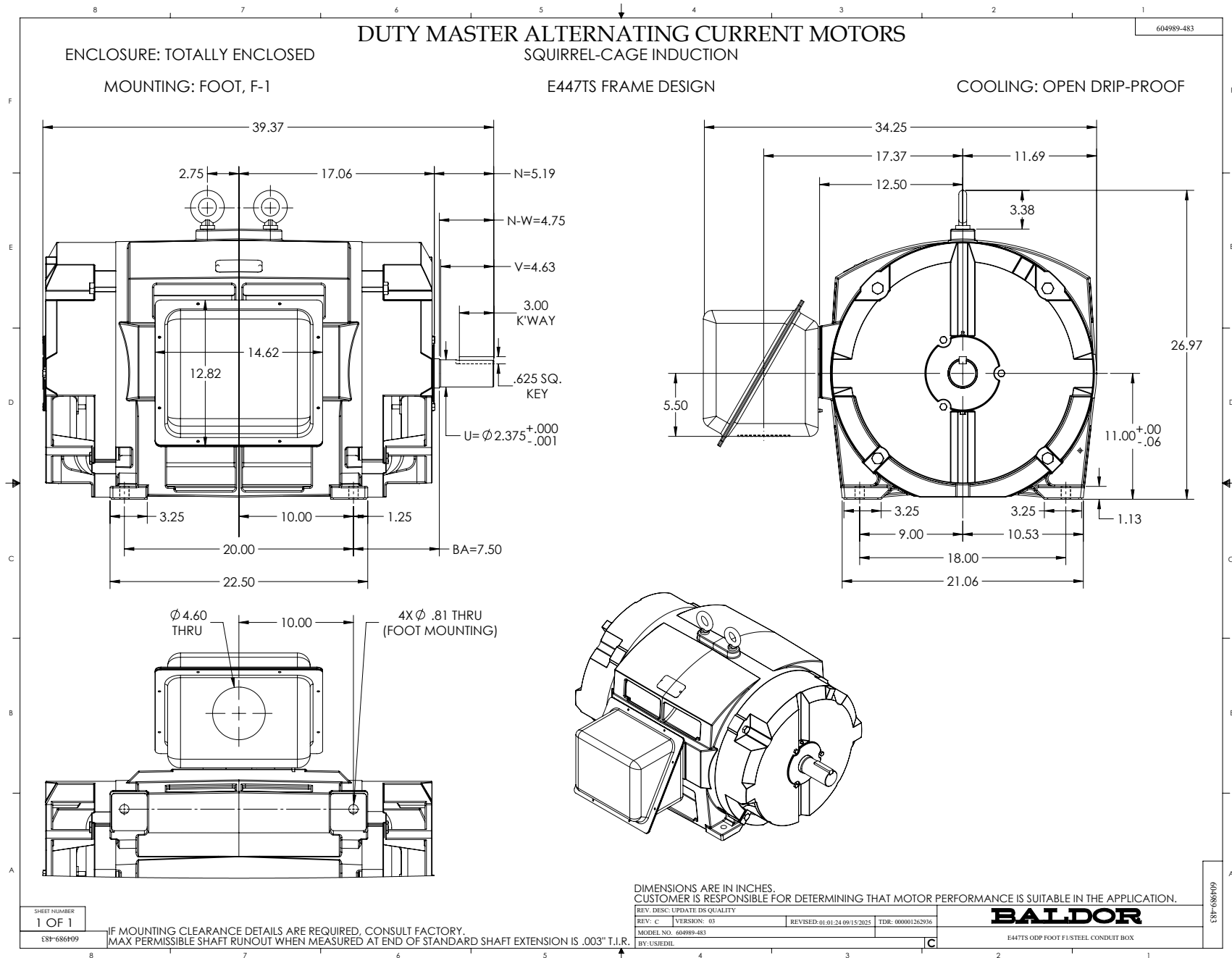
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BALDOR
A MEMBER OF THE ABB GROUP

DR. BY E.J. CHRISTIAN
CK. BY E.J. CHRISTIAN
APP. BY T.G. KELATI
DATE 08/12/15

**A-C MOTOR
PERFORMANCE
CURVES**

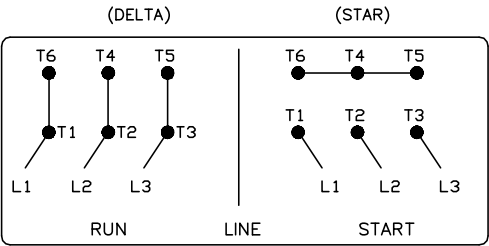
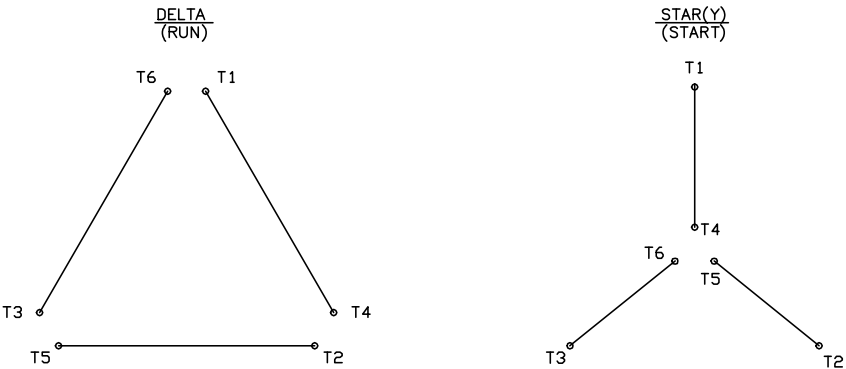
A44WG2772-R004
ISSUE DATE 08/12/15



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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