

ABB BALDOR RELIANCE III

Customer information packet

EM251302T-4

300HP, 3565RPM, 3PH, 60HZ, 447TS, A44084M, DP

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	447TS
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	300.000 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	334.000 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	334.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44084M

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4106
Layout	604989-483
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	02
Leads	6#2/0
Proprietary	False
Created date	02-12-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	39.37 IN
Power Factor	88
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	3565 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.	A44-6805-4106			CAT.NO.	EM251302T-4				FRAME	447TS			
HP	300	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P			
RPM	3565	AMPS	334		HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	65BC03J30X			DUTY	CONT		INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X			ENCL	DP	CODE	G						
SER.NO.				POWER FACTOR		88		NEMA-NOM-EFFICIENCY			95.4		
							MAX CORR KVAR		49		GUARANTEED EFFICIENCY		94.5
							NEMA NOM/CSA QUOTED EFF						
							MOTOR WEIGHT						

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447TSC	300	P	3/60	3565	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
334	CONT	40/F	1.15	B	G	DP-Guar
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833373	418143016EE	---	---	.0127		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	93.0	3600	6.24	0	
1/4	75.0	124	3592	61.8	91.8	
2/4	150	184	3584	80.6	94.8	
3/4	225	256	3575	86.5	95.4	
4/4	300	334	3567	88.0	95.4	
5/4	375	415	3557	88.9	95.1	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	210	925	2200	
PULL UP		1800	190	841	1895	
BREAKDOWN		3414	261	1151	1200	
FULL LOAD		3567	100	442	334	
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						
		DR. BY W. L. SMITH CK. BY J. J. HARRISON APP. BY W. L. SMITH DATE 02/06/12		A-C MOTOR PERFORMANCE A44WG4106-R002 DATA ISSUE DATE 11/12/13		

FRAME 447TSC

RPM 3565

S.F. 1.15

ROTOR 418143016EE

HP 300

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 334

CODE LETTER G

TEST DATE ---

PHASE/HERTZ 3/60

DUTY CONT

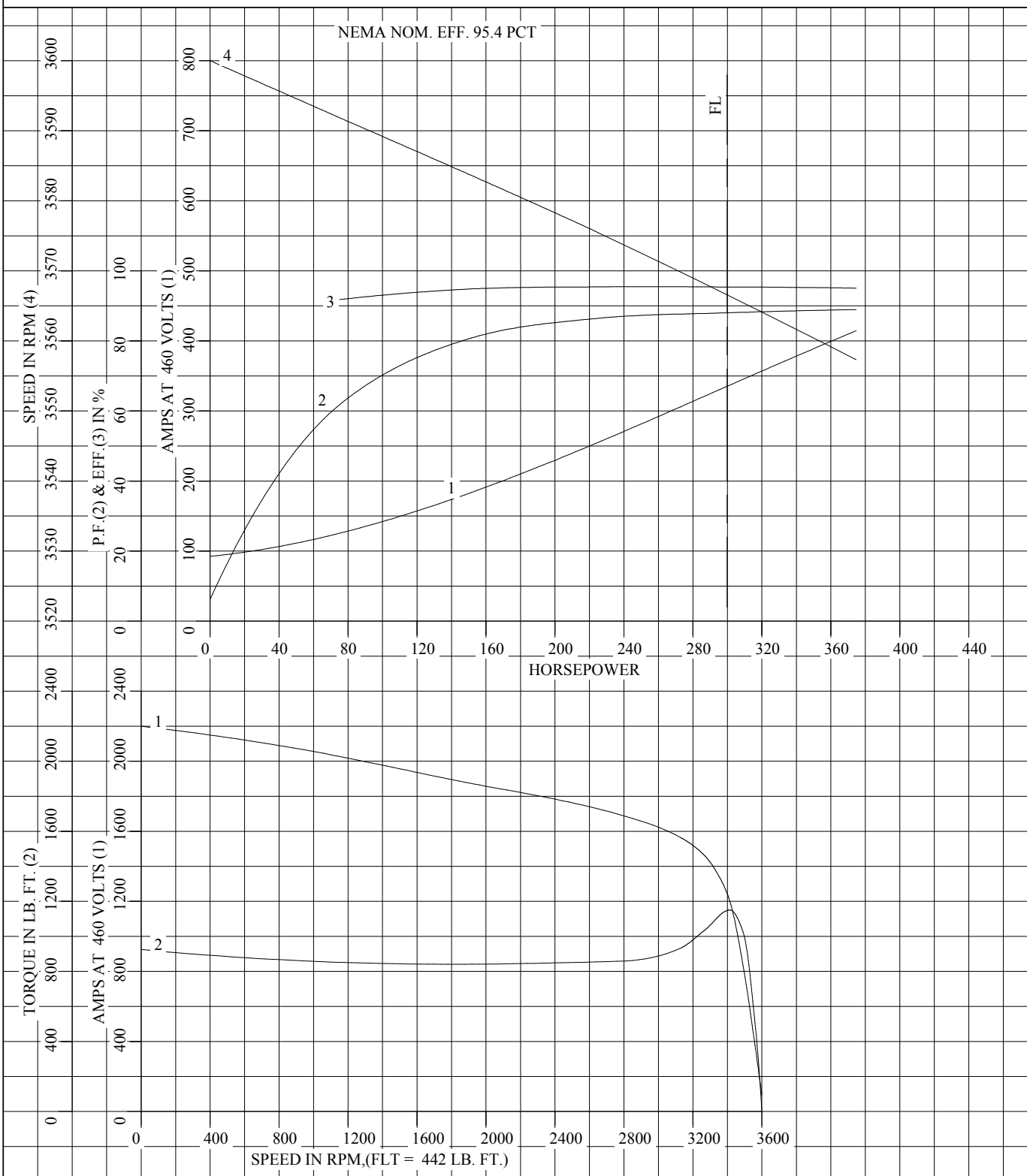
ENCLOSURE DP-Guar

STATOR RES. @ 25 °C .0127

AMB °C/INSUL 40/F

E/S 833373

OHMS (BETWEEN LINES)



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DR. BY W. L. SMITH
CK. BY J.J.HARRISON
APP. BY W. L. SMITH
DATE 02/06/12

**A-C MOTOR
PERFORMANCE
CURVES** A44WG4106-R002
ISSUE DATE 11/12/13

REL. S.O.

RPM 3565

S.F. 1.15

ROTOR 418143016EE

FRAME 447TSC

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 300

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TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE DP-Guar

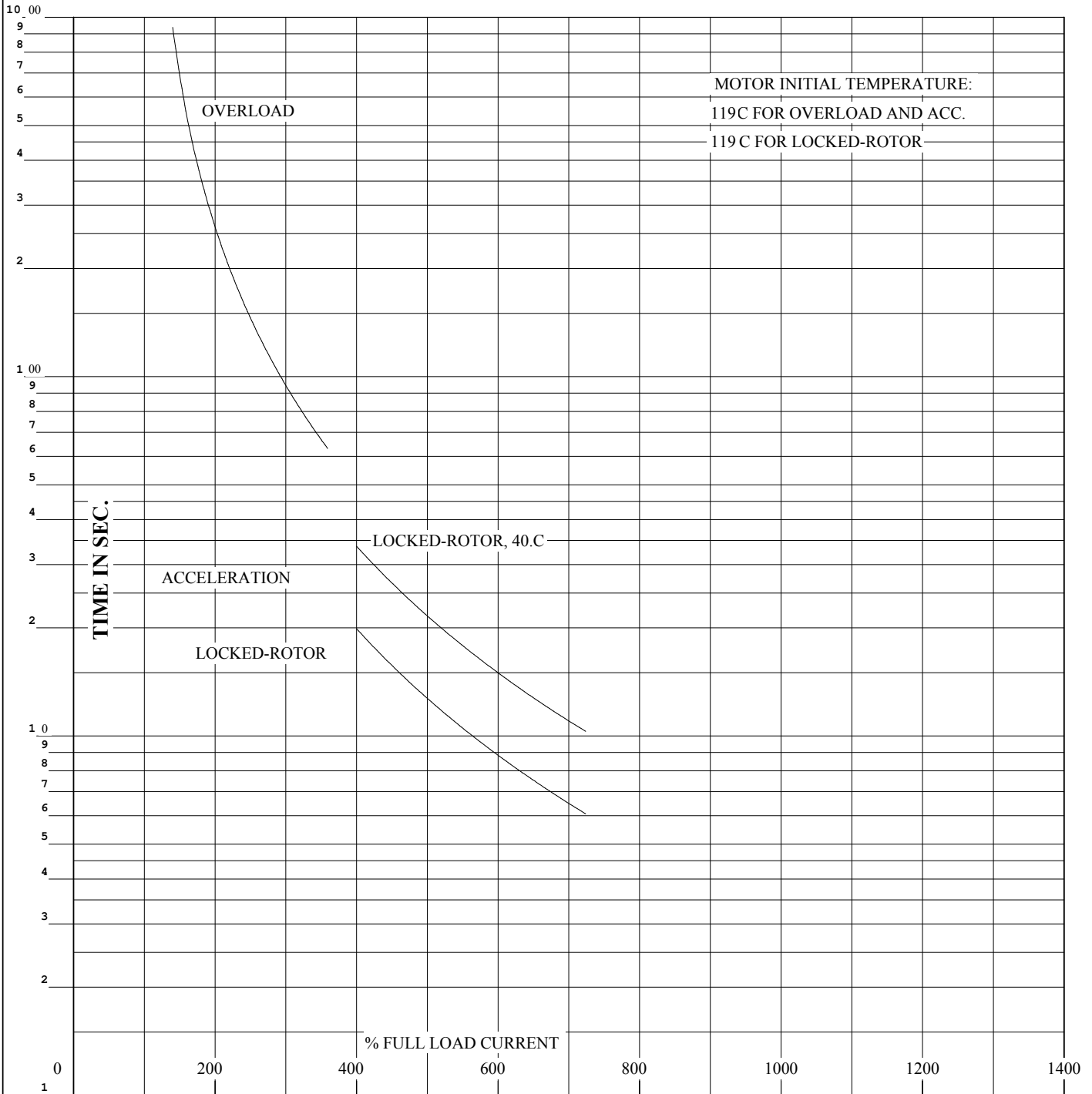
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PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 833373

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

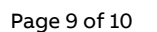
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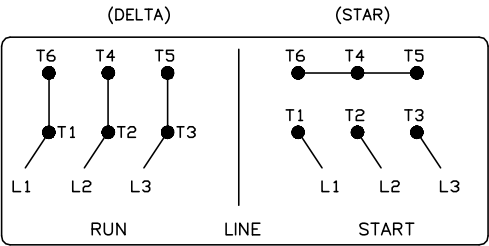
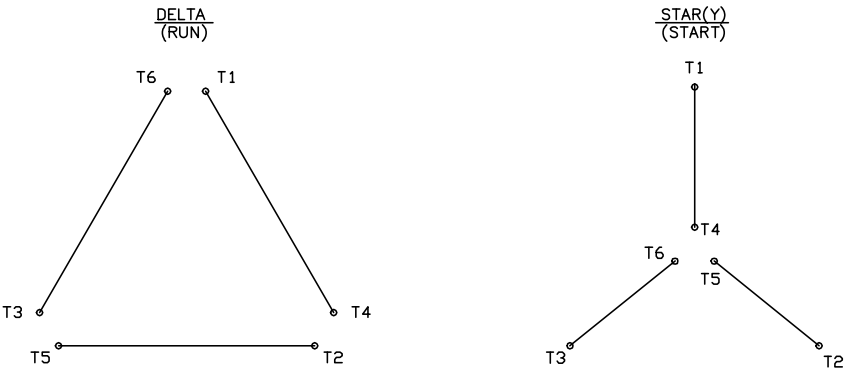
**A-C MOTOR
PERFORMANCE CURVES**
A44WG4106-R002
ISSUE DATE 11/12/13



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