

ABB BALDOR RELIANCE III

Customer information packet

EM4408TR-4

250HP, 1785RPM, 3PH, 60HZ, 449T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	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	Mobil SHC 220 (Athens Only)
Current @ Voltage	276.000 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	276.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44144M

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5150
Layout	617427-209
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	04-13-2015

Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.21 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Roller
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL SHC 220	

NP2349L

SPEC NO.	A44-7126-5150			CAT.NO.	EM4408TR-4				FRAME	449T	
HP	250	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P		
RPM	1785	AMPS	276	HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	110RU02M30X		DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	90BC03J30X		ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR	88	NEMA-NOM-EFFICIENCY				96.2	
						MAX CORR KVAR	39	GUARANTEED EFFICIENCY		95.4	
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
276	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833428	418143052LE	---	---	.0128		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	67.9	1800	4.53	0	
1/4	62.6	94.4	1796	65.7	94.4	
2/4	125	145	1792	83.6	96.2	
3/4	187	208	1788	87.6	96.4	
4/4	250	276	1783	88.3	96.2	
5/4	313	345	1778	88.6	95.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	143	1053	1813	
PULL UP		1200	126	931	1486	
BREAKDOWN		1726	251	1847	893	
FULL LOAD		1783	100	736	276	
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.						
		DR. BY J. P. TSAO		A-C MOTOR PERFORMANCE DATA A44WG5150-R001 ISSUE DATE 04/23/21		
		CK. BY C. E. JAMISON				
		APP. BY W. L. SMITH				
		DATE 11/20/14				
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REL S.O.

 RPM **1785**

 S.F. **1.15**

 ROTOR **418143052LE**

 FRAME **449T**

 VOLTS **460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **250**

 AMPS **276**

 CODE LETTER **G**

TEST DATE ---

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

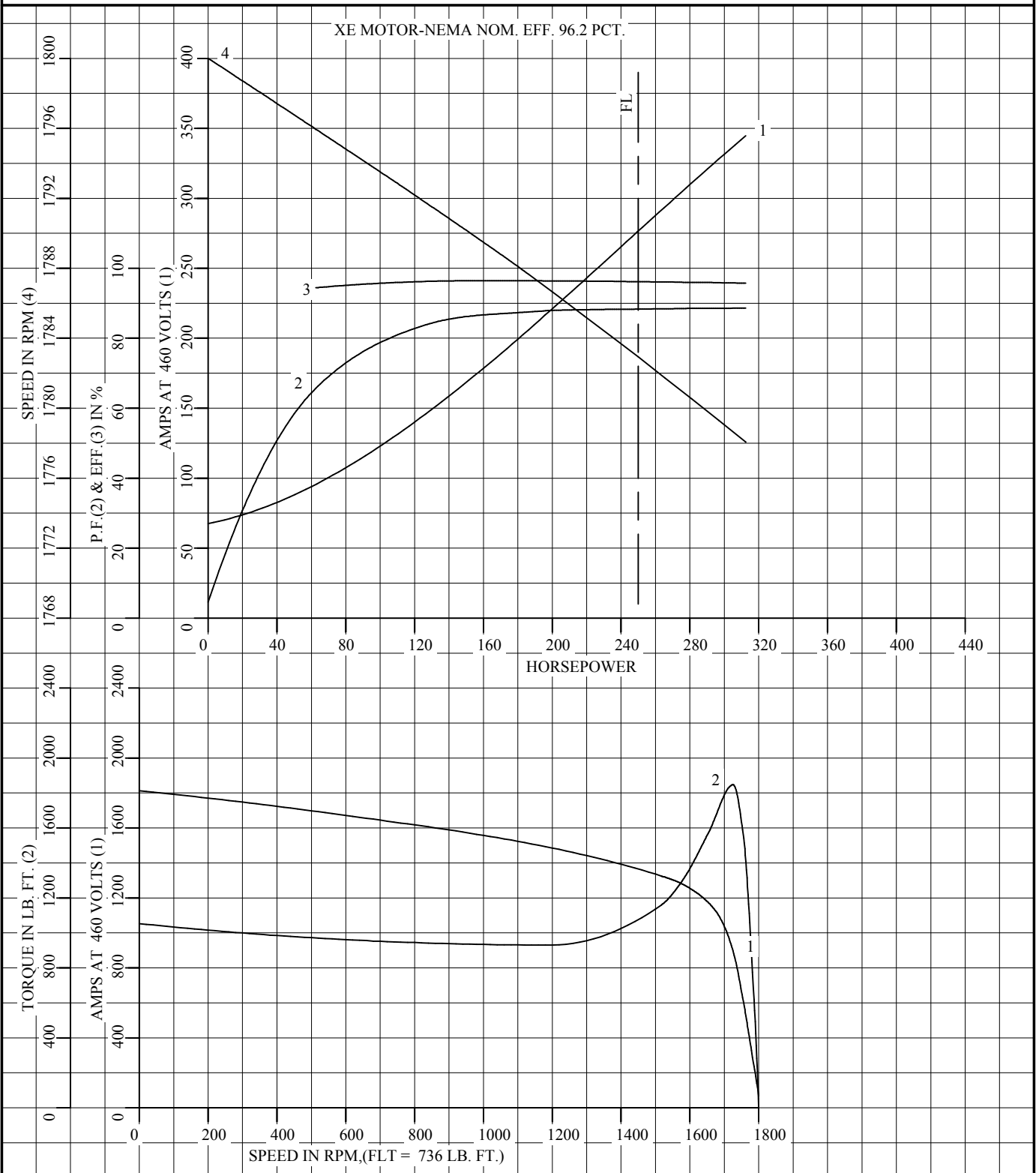
 STATOR RES. @ 25 °C **.0128**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **833428**

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
A MEMBER OF THE ABB GROUP

DR. BY J. P. TSAO
CK. BY C. E. JAMISON
APP. BY W. L. SMITH
DATE 11/20/14

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG5150-R001

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REL. S.O.

 RPM **1785**

 S.F. **1.15**

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 DUTY **CONT**

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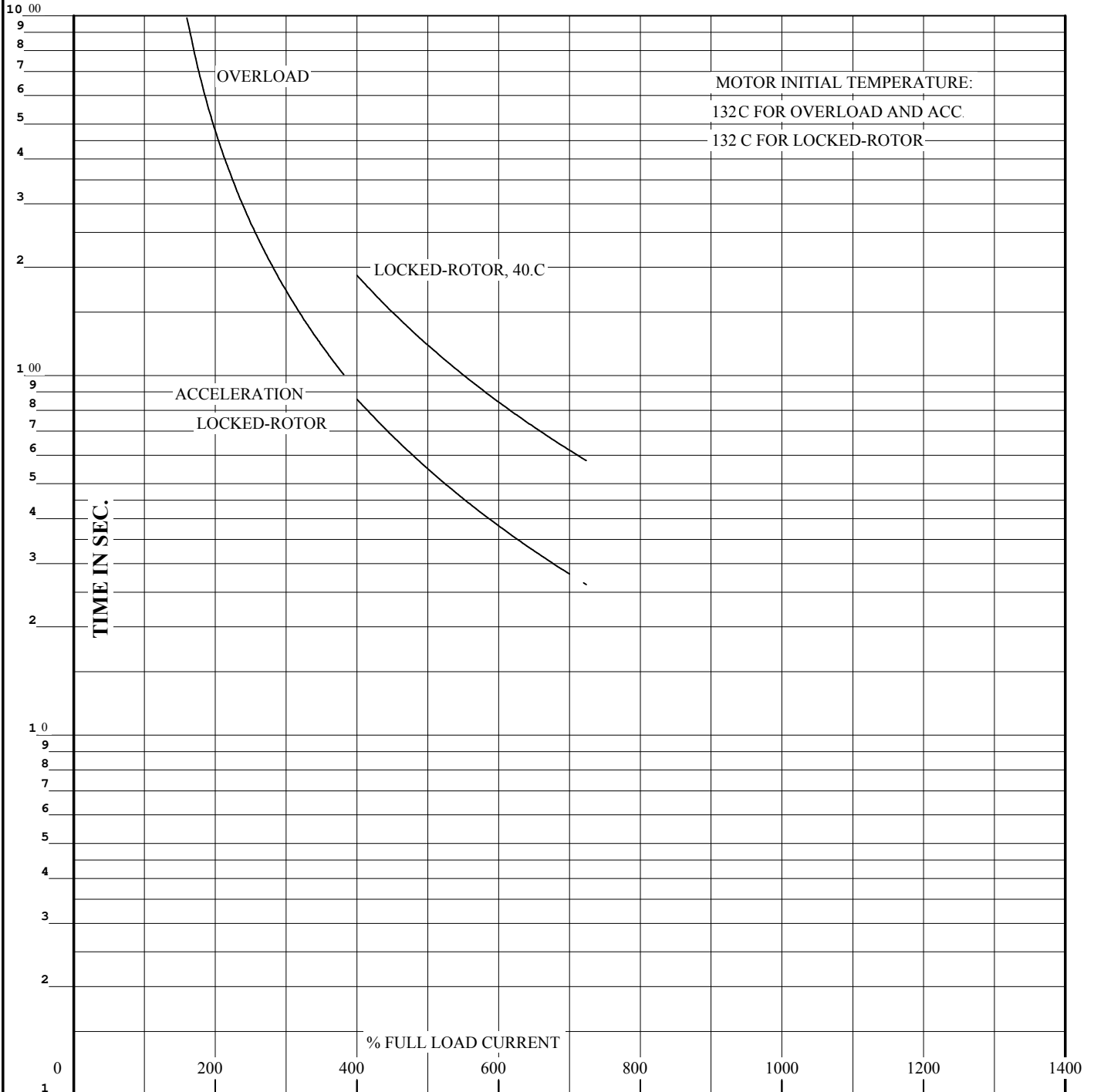
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 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **833428**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

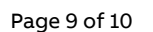
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**A-C MOTOR
PERFORMANCE
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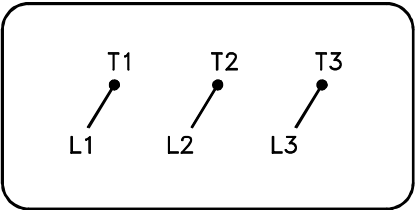
A44WG5150-R001

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416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1