

ABB BALDOR RELIANCE III

Customer information packet

EM4410T-5

125HP, 1785RPM, 3PH, 60HZ, 444T, A44076M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	115.000 A @ 575.0 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	115.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44076M

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3904
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	08-13-2012

Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	85
Product Family	Other
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L																
SPEC NO.	P44G3903				CAT.NO.		EM4410T-5					FRAME	444T			
HP	125	VOLTS		575	PHASE		3	DESIGN		B	TYPE	P				
RPM	1785	AMPS		115	HZ		60	AMB		40	SF	1.15				
DRIVE END BEARING	90BC03J30X			DUTY	CONT		INSUL.CLASS			F						
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC		CODE	G								
SER.NO.				POWER FACTOR			85		NEMA-NOM-EFFICIENCY				95.4			
							MAX CORR KVAR			27.0		GUARANTEED EFFICIENCY			94.5	
							NEMA NOM/CSA QUOTED EFF									
													MOTOR WEIGHT			1669

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET		EM4410T-5 - 125HP, 1785RPM, 3PH, 60HZ, 444T, A44076M, TEFC		
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445	125	P	3/60	1785	575
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
115	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498874	418143052KE	---	---	.0599		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	35.8	1800	4.44	0	
1/4	31.3	49.4	1796	51.1	92.8	
2/4	62.5	67.3	1792	73.0	95.3	
3/4	93.7	89.8	1788	81.7	95.7	
4/4	125	115	1784	85.3	95.5	
5/4	156	142	1780	86.6	95.1	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	133	489	713	
PULL UP		270	114	420	700	
BREAKDOWN		1729	290	1067	400	
FULL LOAD		1784	100	368	115	
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.4PCT.						
		DRAWN BY: <u>C. JAMISON</u> CHECKED BY: <u>W. SMITH</u> APPROVED BY: <u>W. SMITH</u> DATE: <u>04/09/12</u>		AC MOTOR PERFORMANCE DATA		A44WG3904-R001 DATE ISSUED 04/09/12

FRAME 445

RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 575

NEMA DESIGN B

TEST S.O. CALCULATED DATA

TYPE P

AMPS 115

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

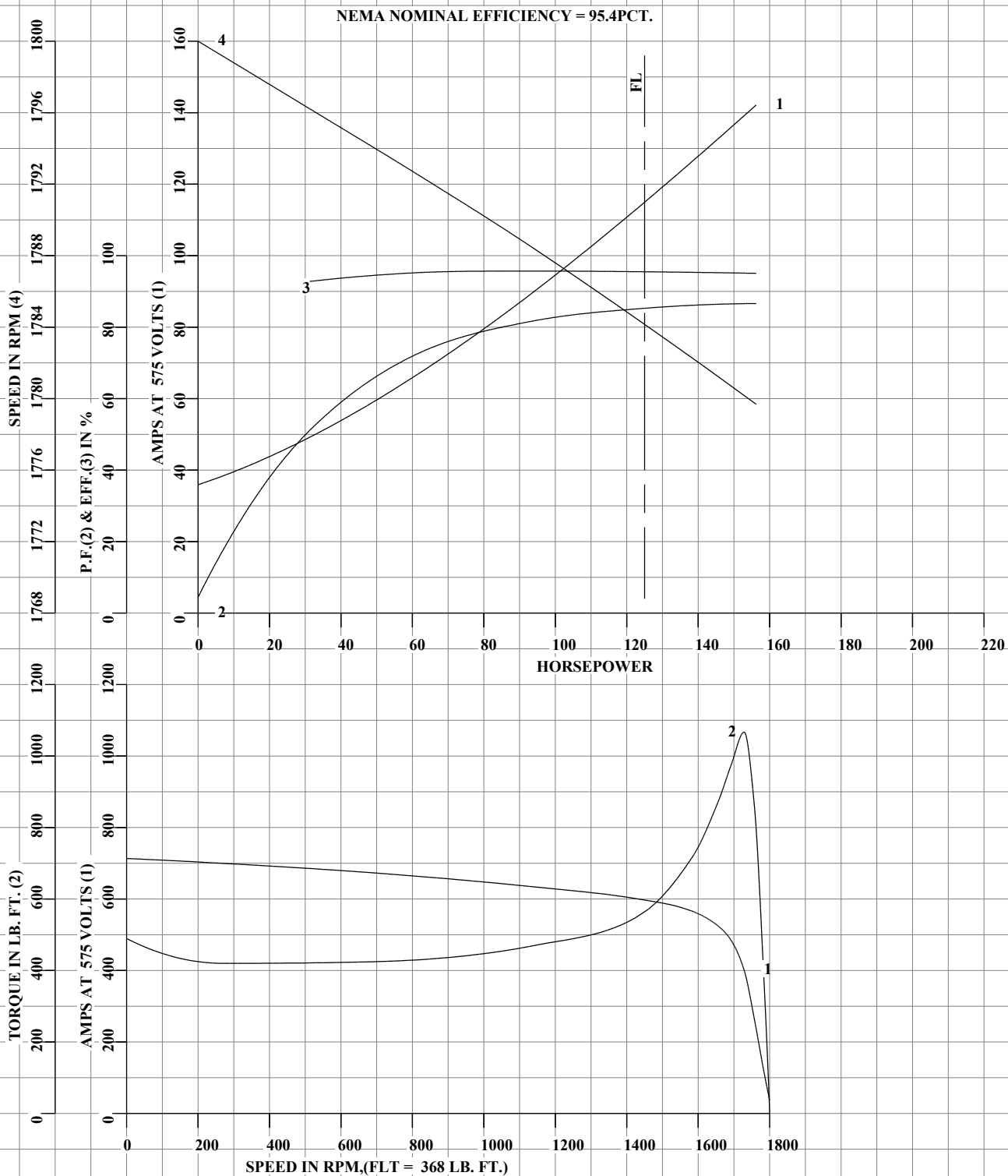
ENCLOSURE TEFC

STATOR RES. @ 25°C .0599

AMB °C / INSUL 40/F

E/S 498874

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR
PERFORMANCE
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A44WG3904-R001

ISSUE DATE 04/09/12

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RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 575

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DUTY CONT

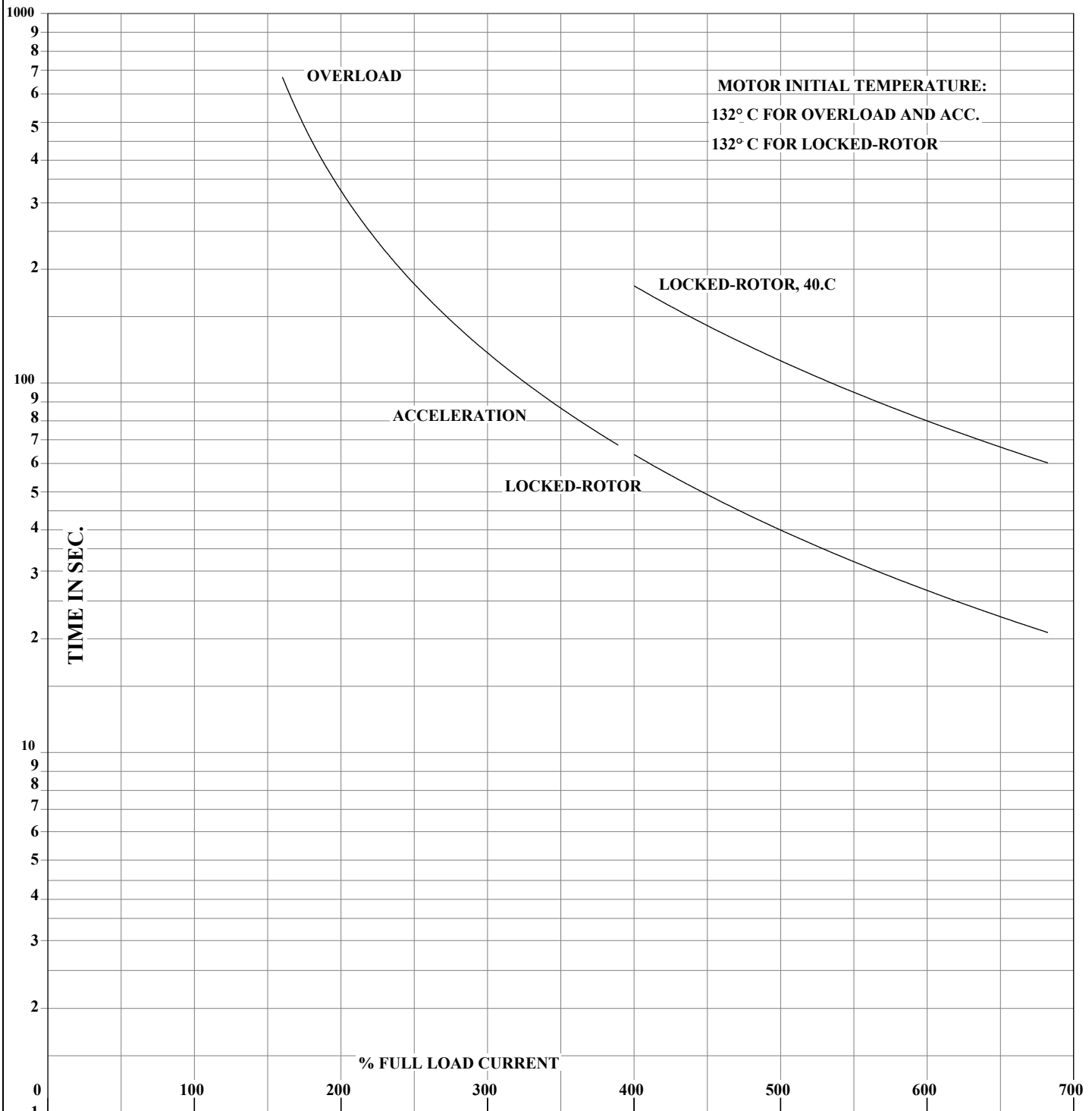
ENCLOSURE TEFC

STATOR RES. @ 25°C .0599

AMB °C / INSUL 40/F

E/S 498874

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.4PCT.

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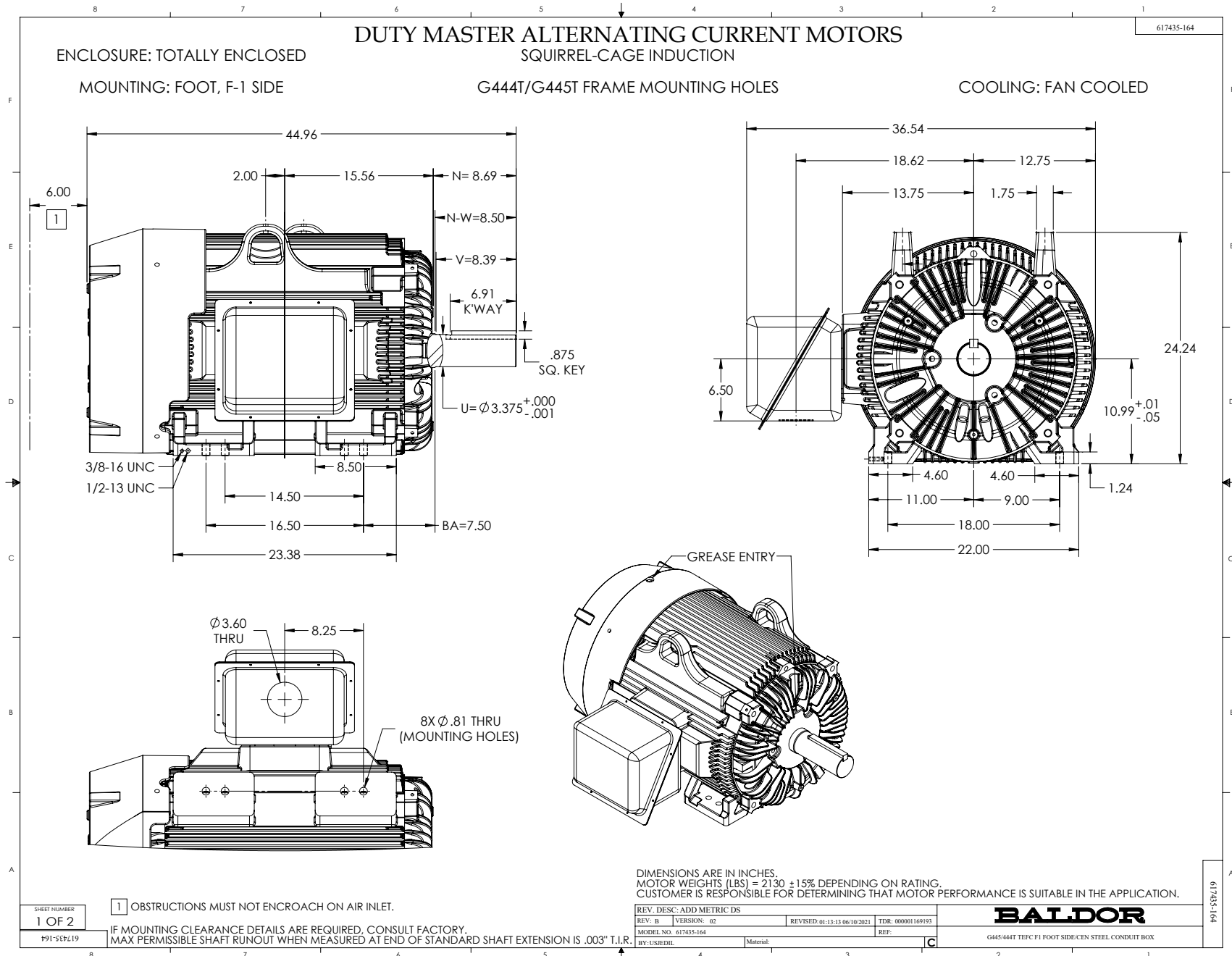


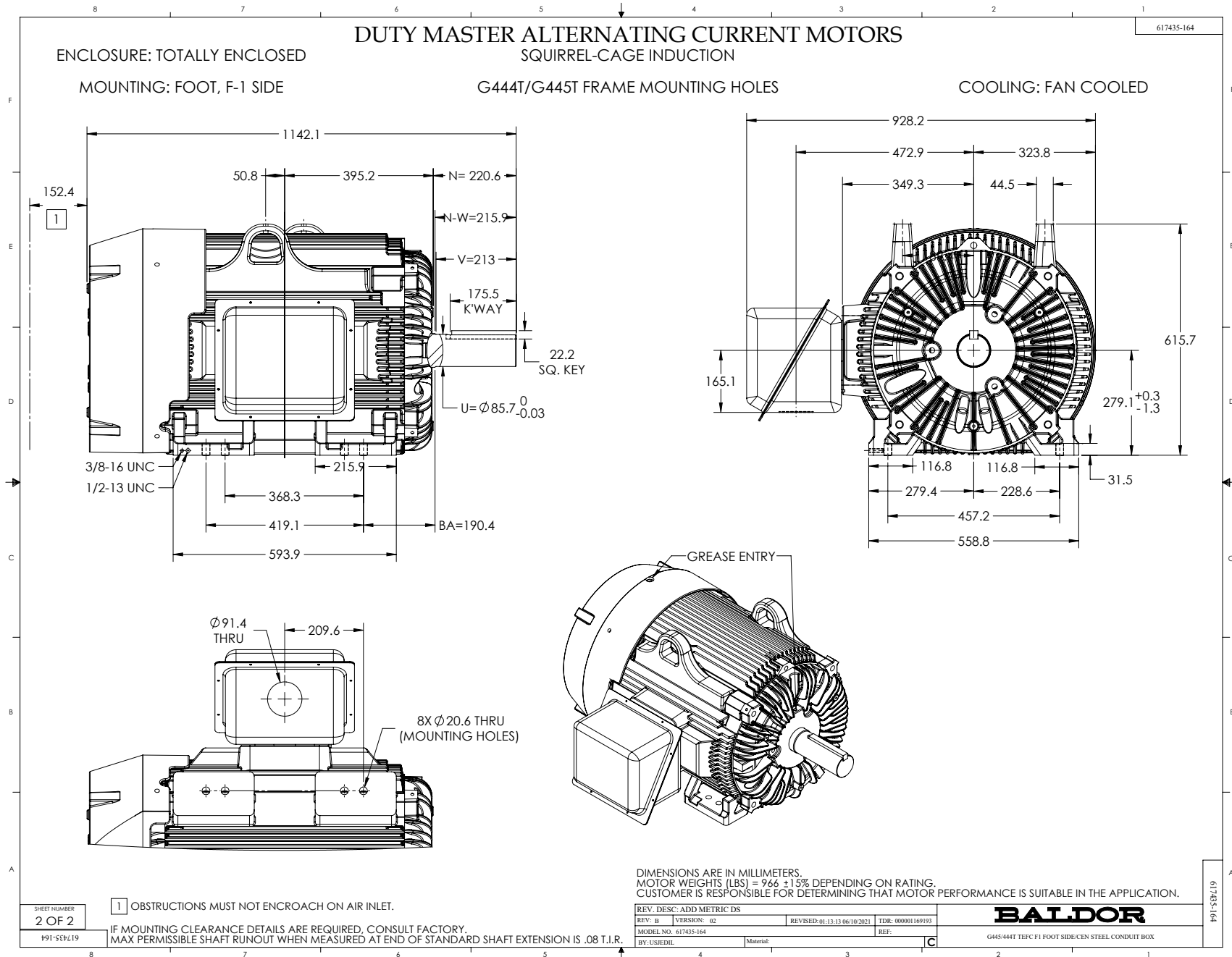
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AC MOTOR
PERFORMANCE
DATA

A44WG3904-R001

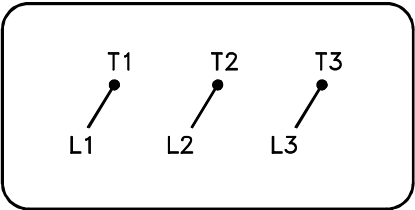
ISSUE DATE 04/09/12





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