

ABB BALDOR RELIANCE III

Customer information packet

ECP84410T-5

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

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
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	CCSA US UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
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
Haz Area Temp Code	T3
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

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3904
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	03-10-2022

Motor Standards	None
Motor Type	A44076M
Mounting Arrangement	F1
No Load Current	36.6 a
Number of Poles	4
Overall Length	44.97 IN
Power Factor	85
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	Phase Seq-Std Rot (CCWODE)
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

NP4566																	
CAT NO	ECP84410T-5			SPEC NO.		A44-0000-3904											
HP	125	AMPS		115		VOLTS		575		DESIGN		B					
FRAME SIZE	444T	RPM		1785		HZ		60	AMB		40	SF		1.15			
D.E. BRG.DATA	6318			O.D.E. BRG.DATA			6318			PH		3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	90BC03J30X			TYPE		P	ENCL		TEFC	CODE		G					
O.D.E. BRG.	90BC03J30X			POWER FACTOR				85		NEMA-NOM-EFFICIENCY				95.4			
3/4 LOAD EFF.	95.7	IP		56	MAX CORR KVAR				27		GUARANTEED EFFICIENCY				94.5		
TEMP CODE	T3	TEMP =		200													
CHP HZ	60-90	CT HZ		10-60	VT HZ		0-60										
INVERTER-TEMP-CODE	T3																
SER.NO.				MOTOR WEIGHT													

000613007EX				
CAT NO	ECP84410T-5	SPEC NO.	A44-0000-3904	
NO. ROTOR BARS	58	GREASE TYPE	POLYREX EM	
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE	36.6	
5 YEAR WARRANTY		WINDING RES @25 C	0.0593	OHMS
MFG. DATE		SER.NO		

ECP84410T-5 - 125HP, 1785RPM, 3PH, 60HZ, 444T, A44076M, TEFC						
CUSTOMER INFORMATION PACKET	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.						
ABB		DRAWN BY: C. JAMISON CHECKED BY: W. SMITH APPROVED BY: W. SMITH DATE: 04/09/12		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

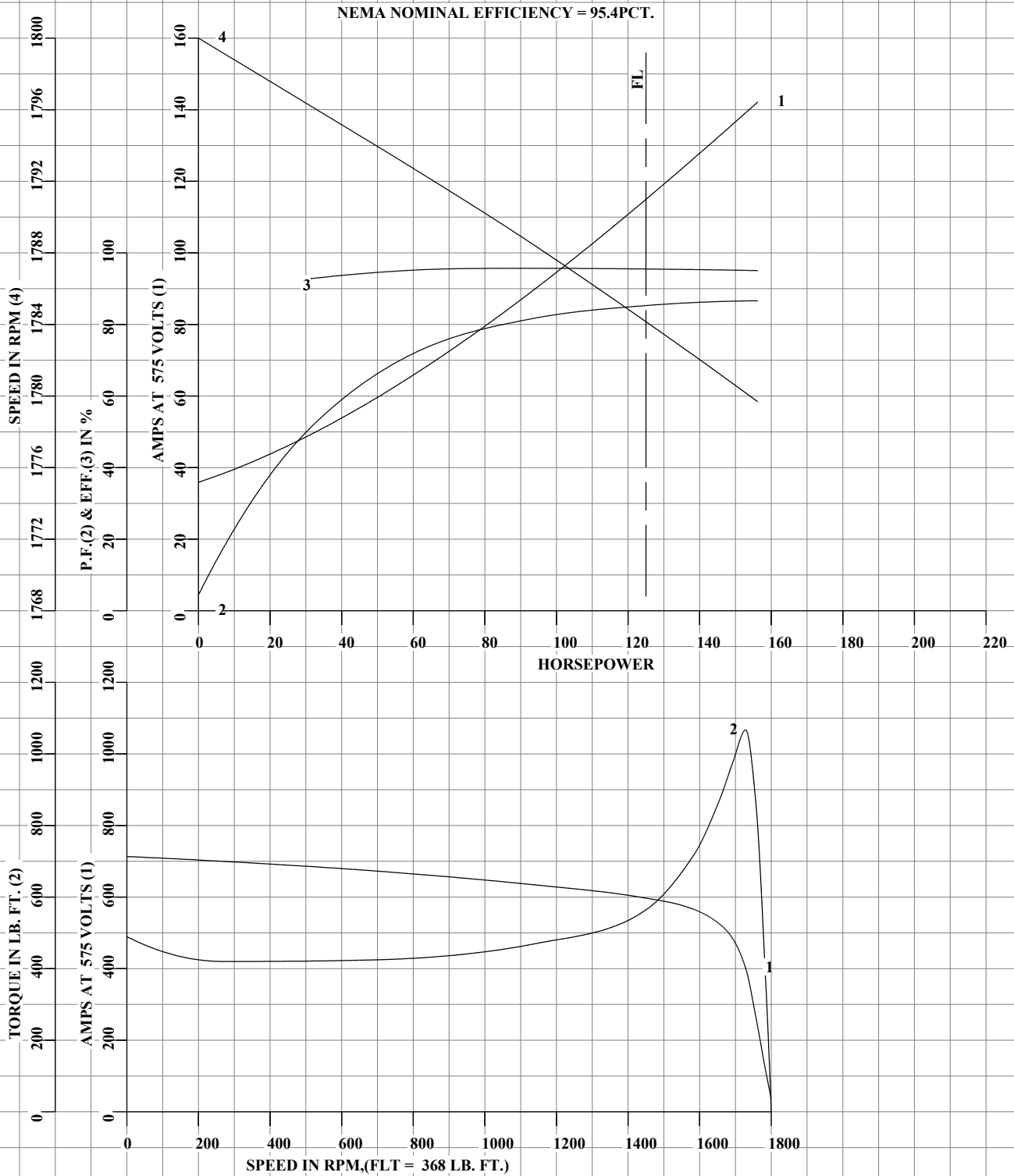
ENCLOSURE TEFC

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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CHECKED BY: W. SMITH
APPROVED BY: W. SMITH
DATE: 04/09/12

AC MOTOR
PERFORMANCE
DATA

A44WG3904-R001

ISSUE DATE 04/09/12

FRAME 445

RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 575

NEMA DESIGN B

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AMPS 115

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PHASE / HERTZ 3/60

DUTY CONT

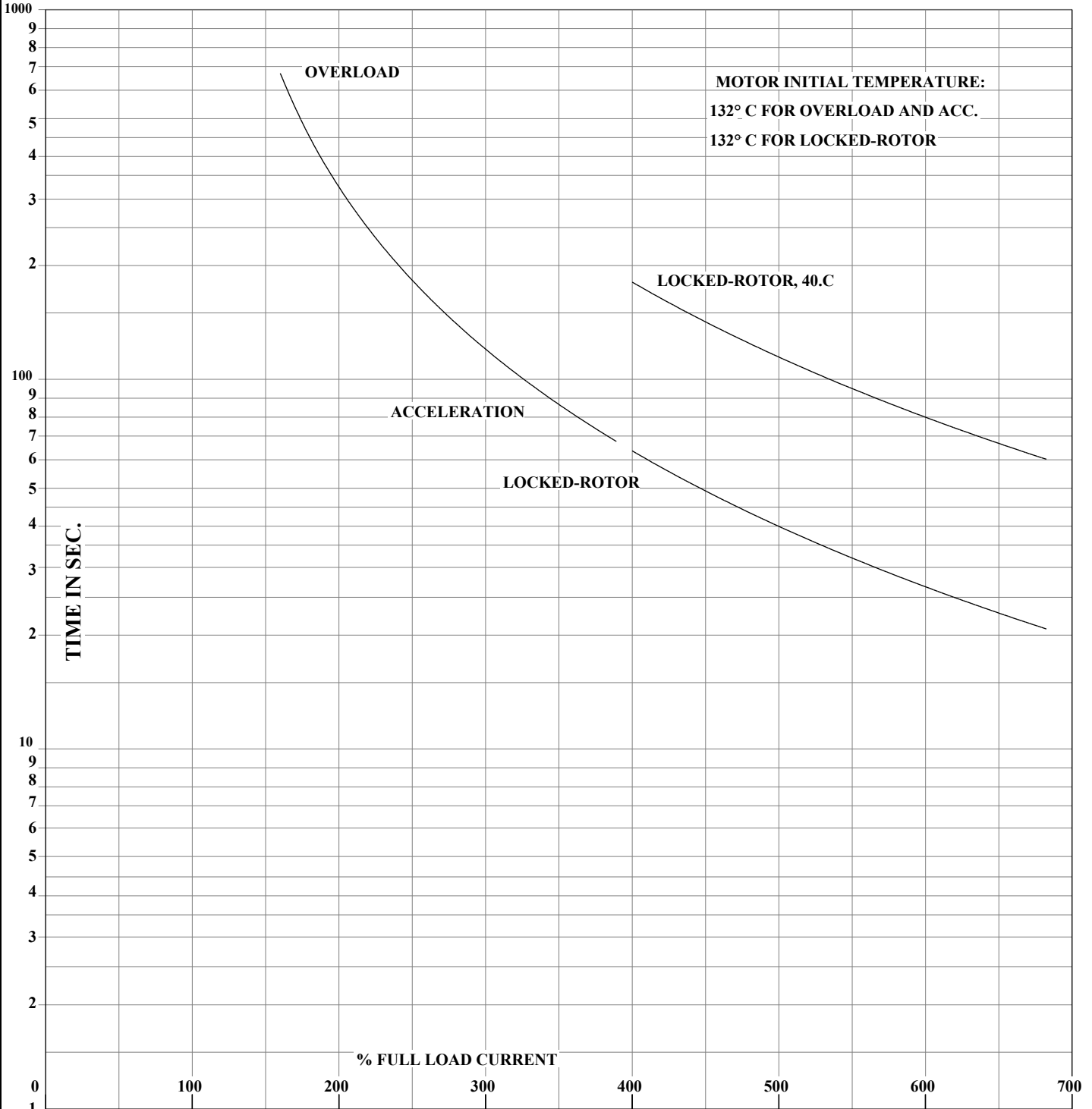
ENCLOSURE TEFC

STATOR RES. @ 25°C .0599

AMB °C / INSUL 40/F

E/S 498874

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.4PCT.

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

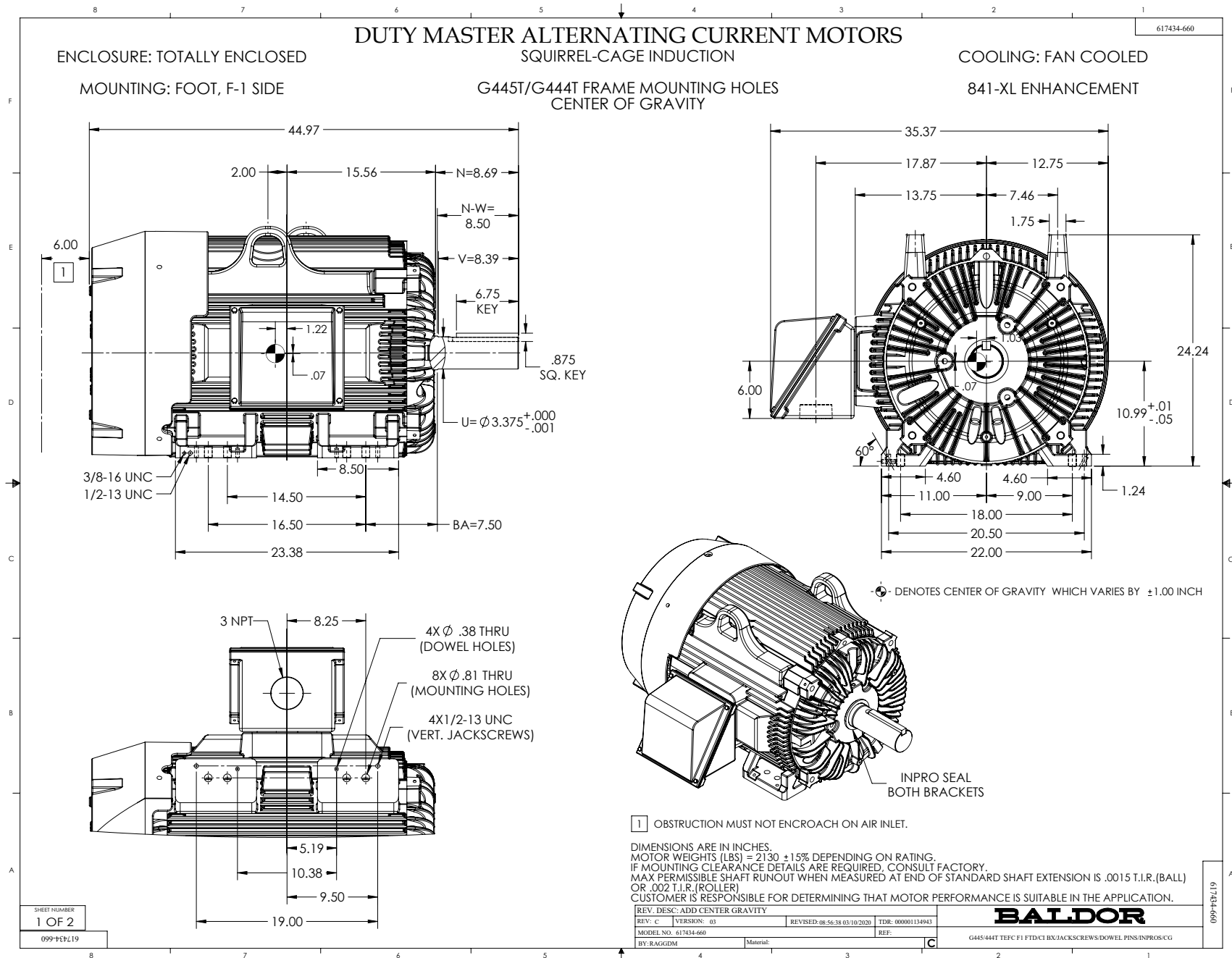


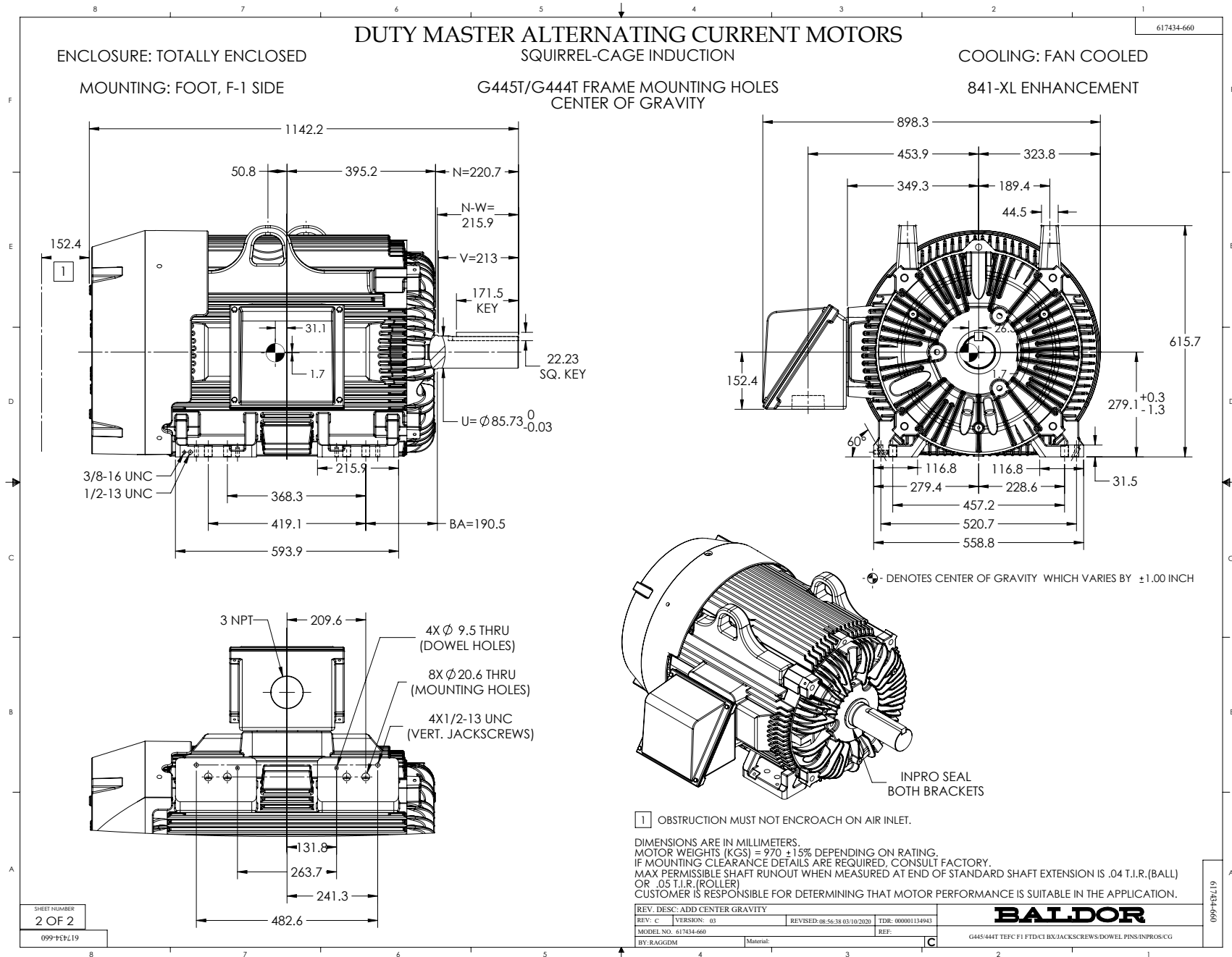
DRAWN BY: C. JAMISON
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AC MOTOR
PERFORMANCE
DATA

A44WG3904-R001

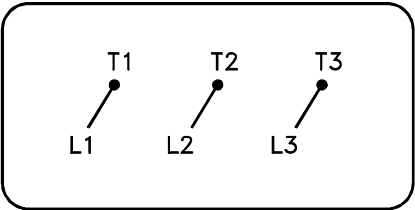
ISSUE DATE 04/09/12





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