

ABB BALDOR RELIANCE III

Customer information packet

ECP84410TR-4

125HP, 1785, 3PH, 60HZ, 444T, TEFC, F1

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	460.0 V @ 60 HZ
Agency Approvals	UR CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	10-60
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	144.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3870
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	08-06-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	None
Motor Type	A44076M
Mounting Arrangement	F1
No Load Current	44.8 a
Number of Poles	4
Overall Length	44.97 IN
Power Factor	85
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	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	ECP84410TR-4			SPEC NO.		A44-9303-3870									
HP	125	AMPS		144	VOLTS		460		DESIGN		B				
FRAME SIZE	444T	RPM		1785	HZ		60	AMB		40	SF		1.15		
D.E. BRG.DATA	NU222			O.D.E. BRG.DATA		6318			PH	3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X			TYPE		ENCL	TEFC		CODE		G				
O.D.E. BRG.	90BC03J30X			POWER FACTOR			85		NEMA-NOM-EFFICIENCY				95.4		
3/4 LOAD EFF.	95.8	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	ECP84410TR-4	SPEC NO.	A44-9303-3870	
NO. ROTOR BARS	58	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE		44.8
5 YEAR WARRANTY		WINDING RES @25 C	.03840	OHMS
MFG. DATE		SER.NO		

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					ECP84410TR-4 - 125HP, 1785, 3PH, 60HZ, 444T, TEFC, F1	
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS	
		444	125	P	3/60	1785	460	
AMPS	DUTY	AMB °C/ INSUL		S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE	
144	CONT	40/F		1.15	B	G	TEFC	
E/S	ROTOR	TEST S.O.		TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)			
498834	418143052KE	---		---	.0383			
PERFORMANCE								
LOAD	HP	AMPERES		RPM	% POWER FACTOR	% EFFICIENCY		
NO LOAD	0	44.8		1800	4.44	0		
1/4	31.3	61.7		1796	51.1	92.8		
2/4	62.5	84.1		1792	73.0	95.3		
3/4	93.7	112		1788	81.7	95.7		
4/4	125	144		1784	85.3	95.5		
5/4	156	178		1780	86.6	95.1		
SPEED TORQUE								
		RPM		TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR		0		133	489	892		
PULL UP		270		114	420	875		
BREAKDOWN		1729		290	1067	500		
FULL LOAD		1784		100	368	144		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.								
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.4PCT.								
		DRAWN BY: <u>CD</u> CHECKED BY: <u>CD</u> APPROVED BY: <u>R. MCELVEEN</u> DATE: <u>1/18/11</u>			AC MOTOR PERFORMANCE DATA		A44WG3870-R001	
							DATE ISSUED 05/04/21	

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418T43052KE

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 144

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

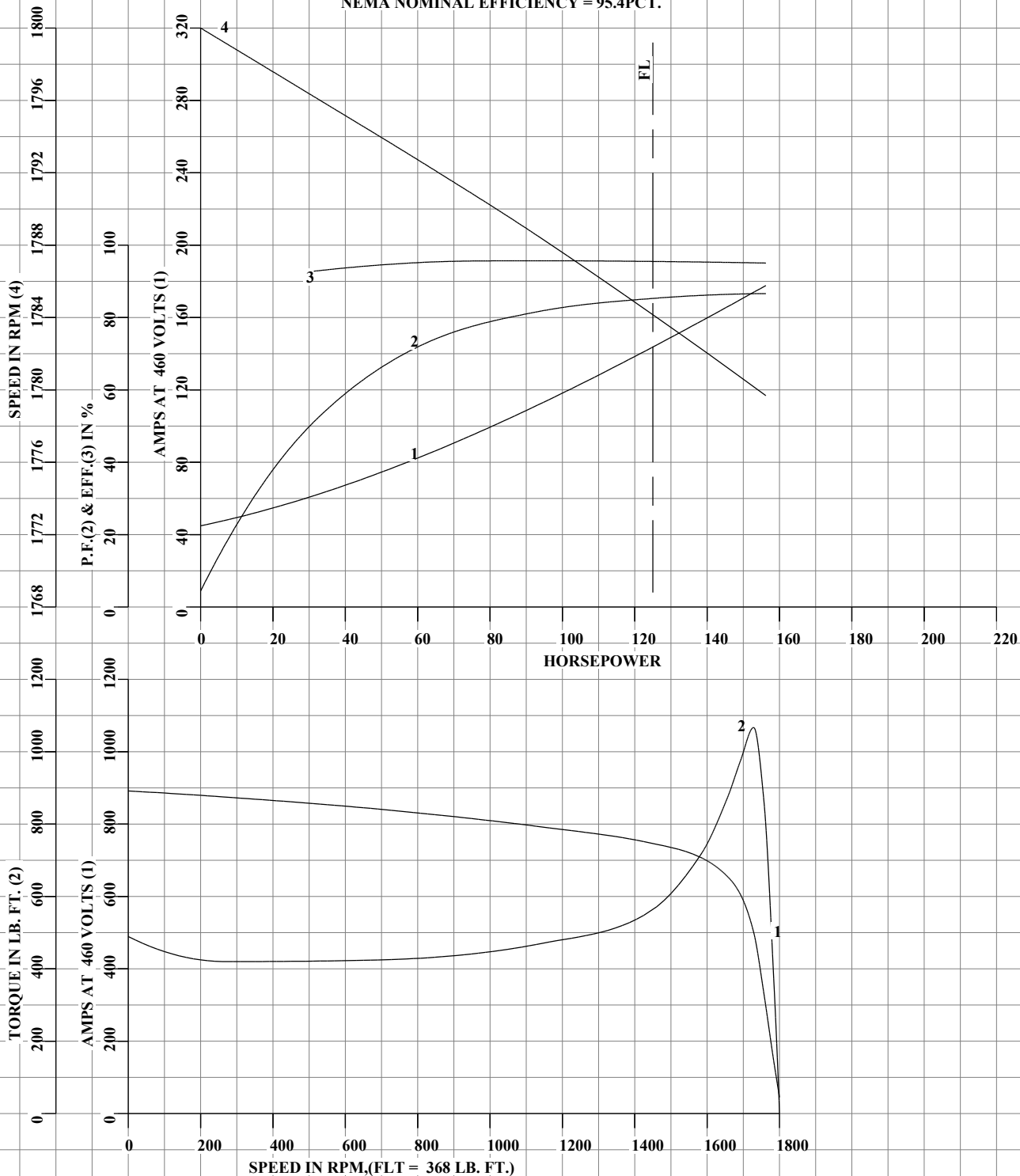
STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.4PCT.



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



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 CHECKED BY: CD
 APPROVED BY: R. MCELVEEN
 DATE: 1/18/11

AC MOTOR
 PERFORMANCE
 DATA

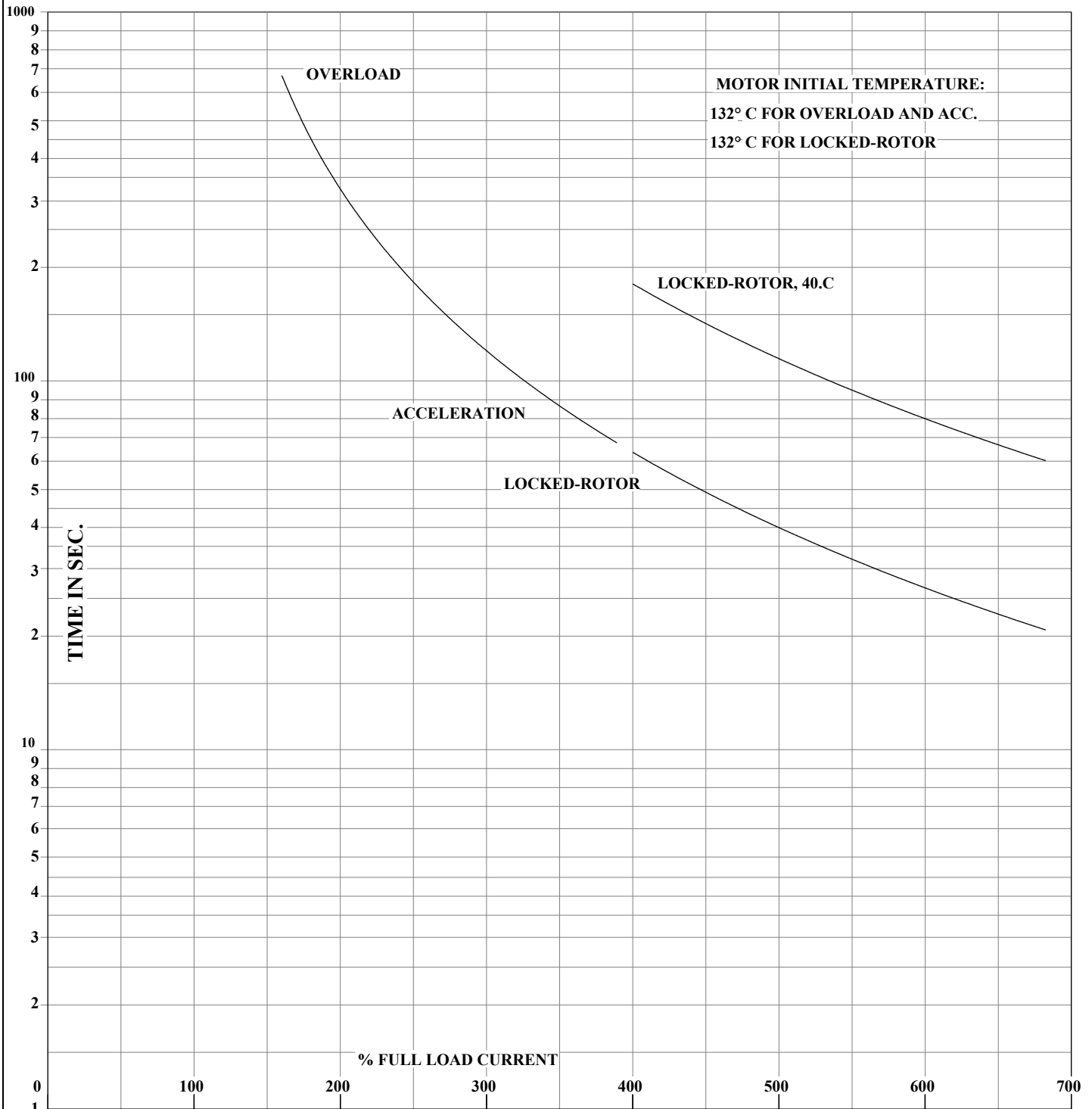
A44WG3870-R001

ISSUE DATE 05/04/21

CUSTOMER INFORMATION PACKET
RPM 1785
VOLTS 460
AMPS 144
DUTY CONT
AMB °C / INSUL 40/F

ECP84410TR-1 125HP, 1785, 3PH, 60HZ, 244T, TEFC, F1
S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 498834

ROTOR 418143052KE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0383
OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.4PCT.

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

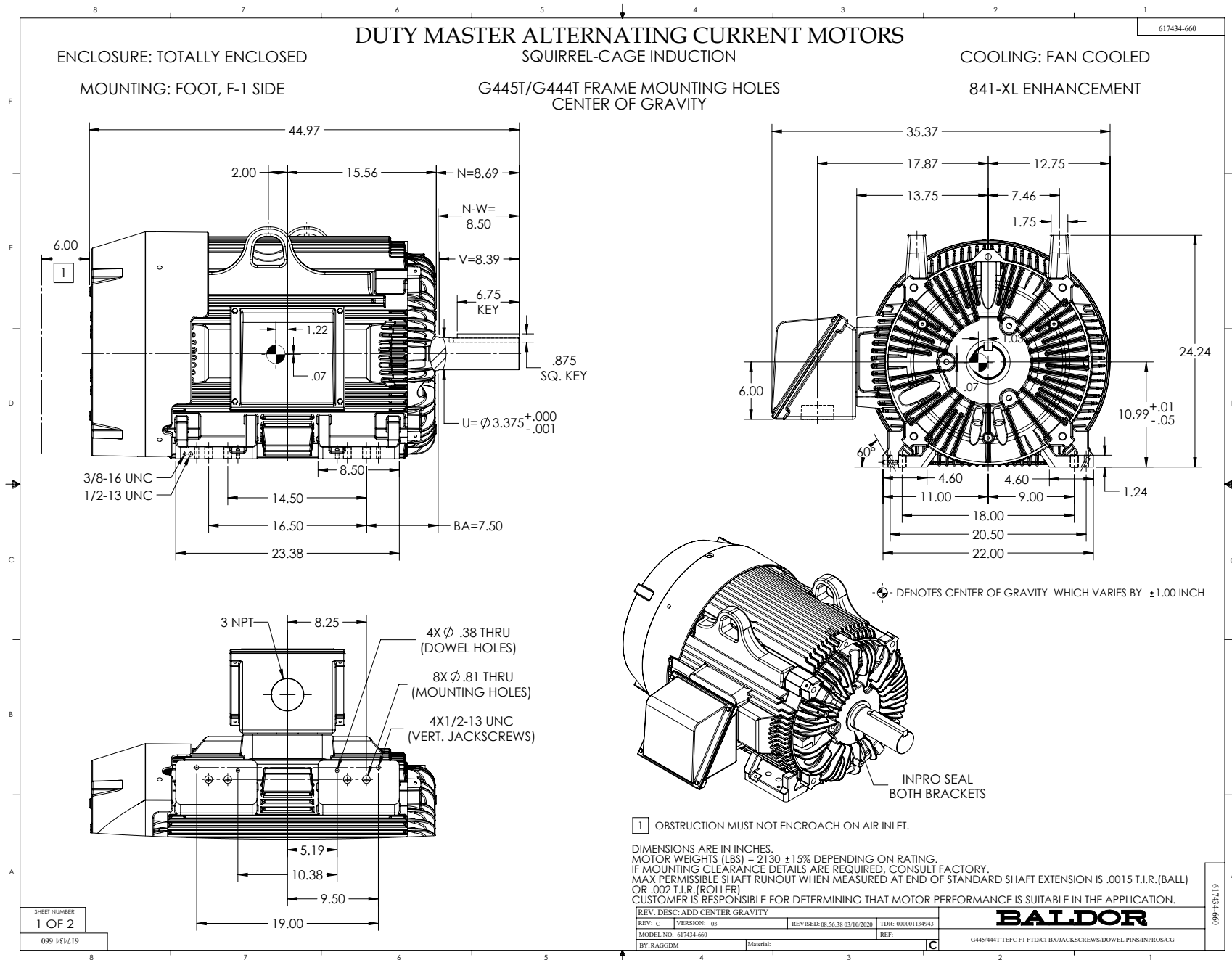


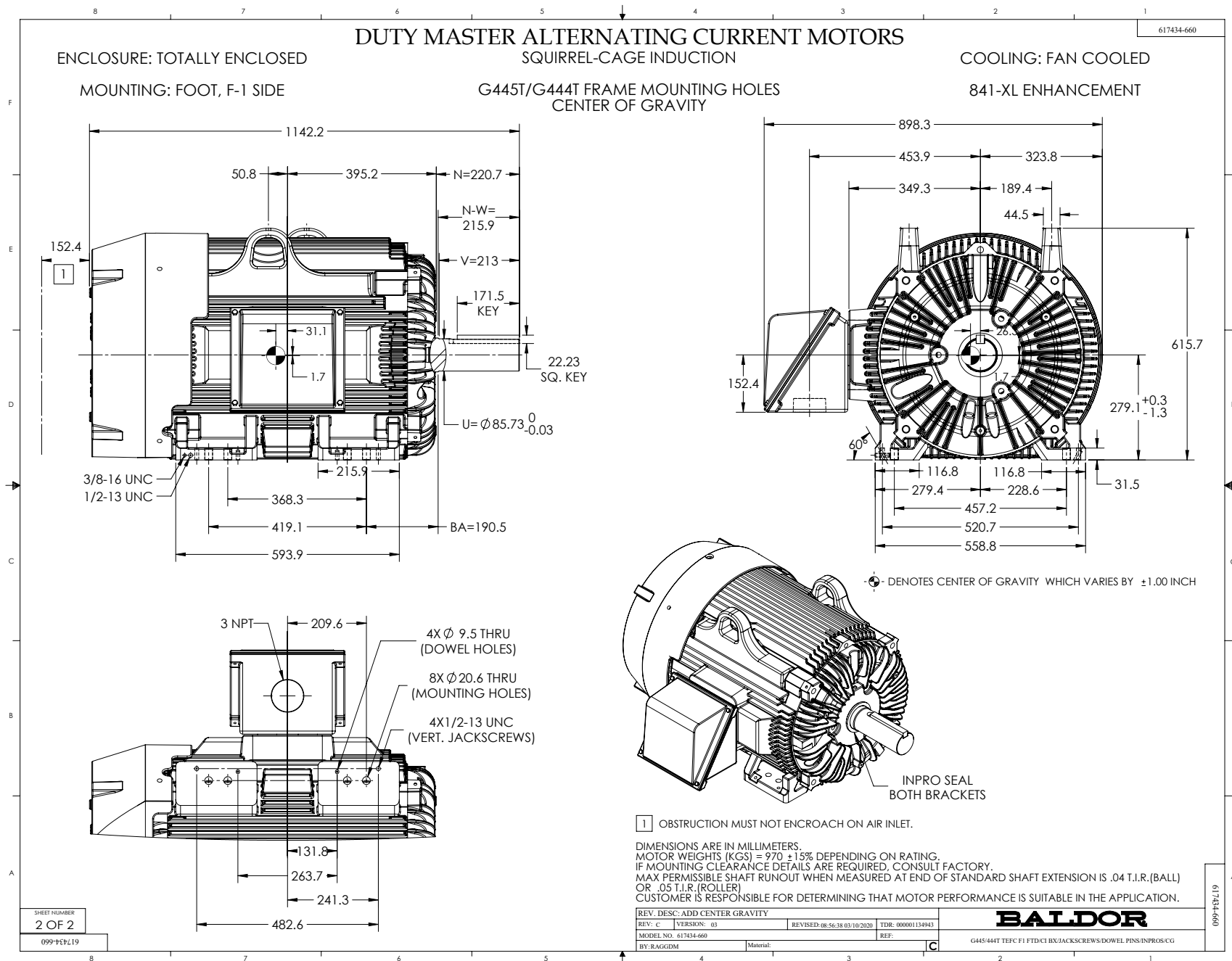
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**AC MOTOR
PERFORMANCE
DATA**

A44WG3870-R001

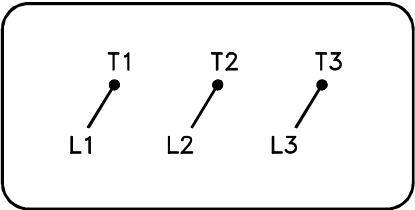
ISSUE DATE 05/04/21





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