

ABB BALDOR RELIANCE III

Customer information packet

ECP84410T-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	Polyrex EM (-20F +300F)
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	F
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	12-12-2018

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	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-4			SPEC NO.		A44-5000-3870											
HP	125	AMPS		144		VOLTS		460		DESIGN		B					
FRAME SIZE	444T	RPM		1785		HZ		60	AMB		40	SF		1.15			
D.E. BRG.DATA	6318			O.D.E. BRG.DATA			6318			PH		3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	90BC03J30X			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				27.0		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-4	SPEC NO.	A44-5000-3870	
NO. ROTOR BARS	58	GREASE TYPE	POLYREX EM	
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							CUSTOMER INFORMATION PACKET ECP84410T-4 - 125HP, 1785, 3PH, 60HZ, 444T, TEFC, F1						
S/O		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

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

AMPS 144

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

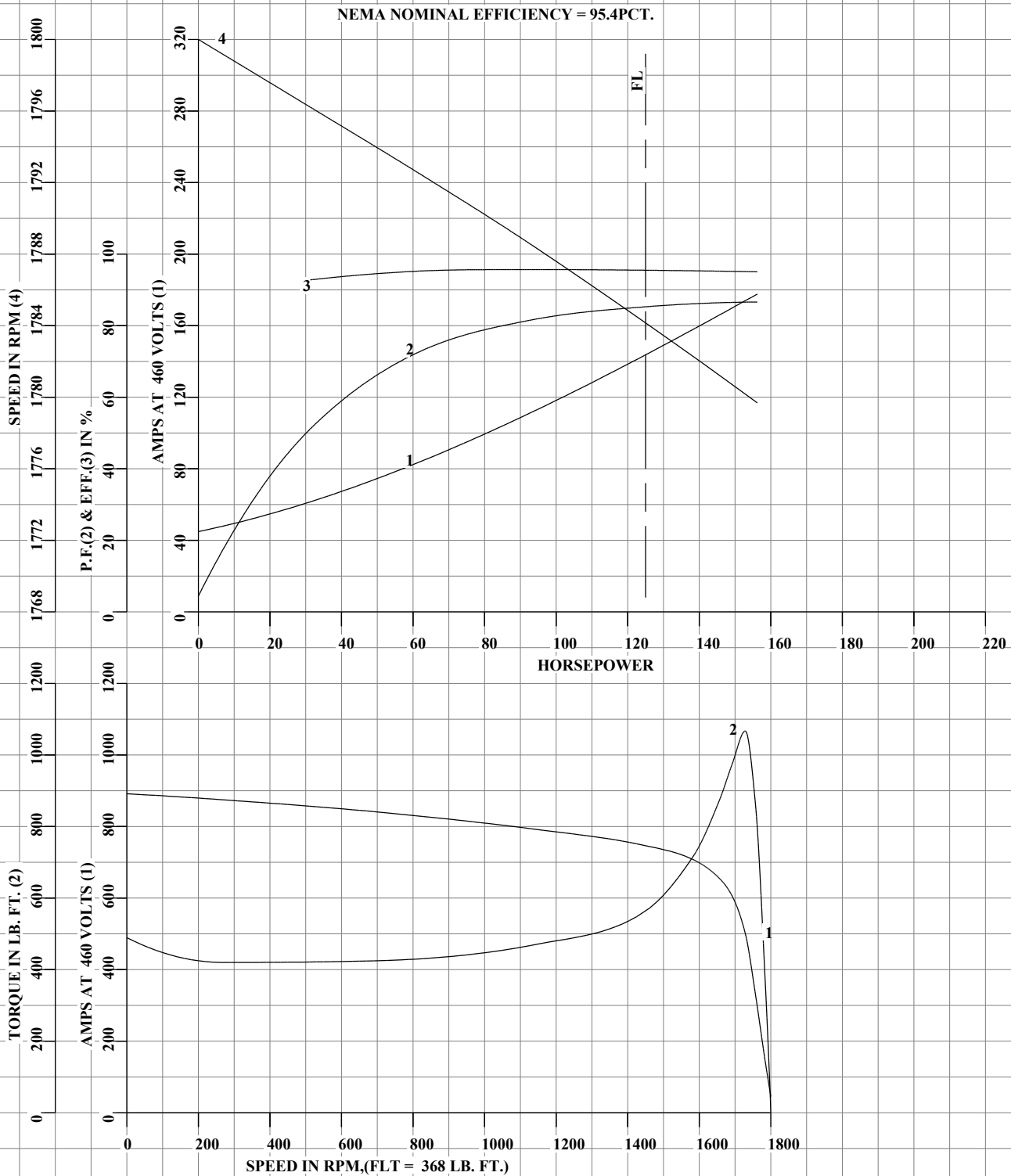
STATOR RES. @ 25°C .0383

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)



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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DATE: 1/18/11

AC MOTOR
PERFORMANCE
DATA

A44WG3870-R001

ISSUE DATE 05/04/21

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418143052KE

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

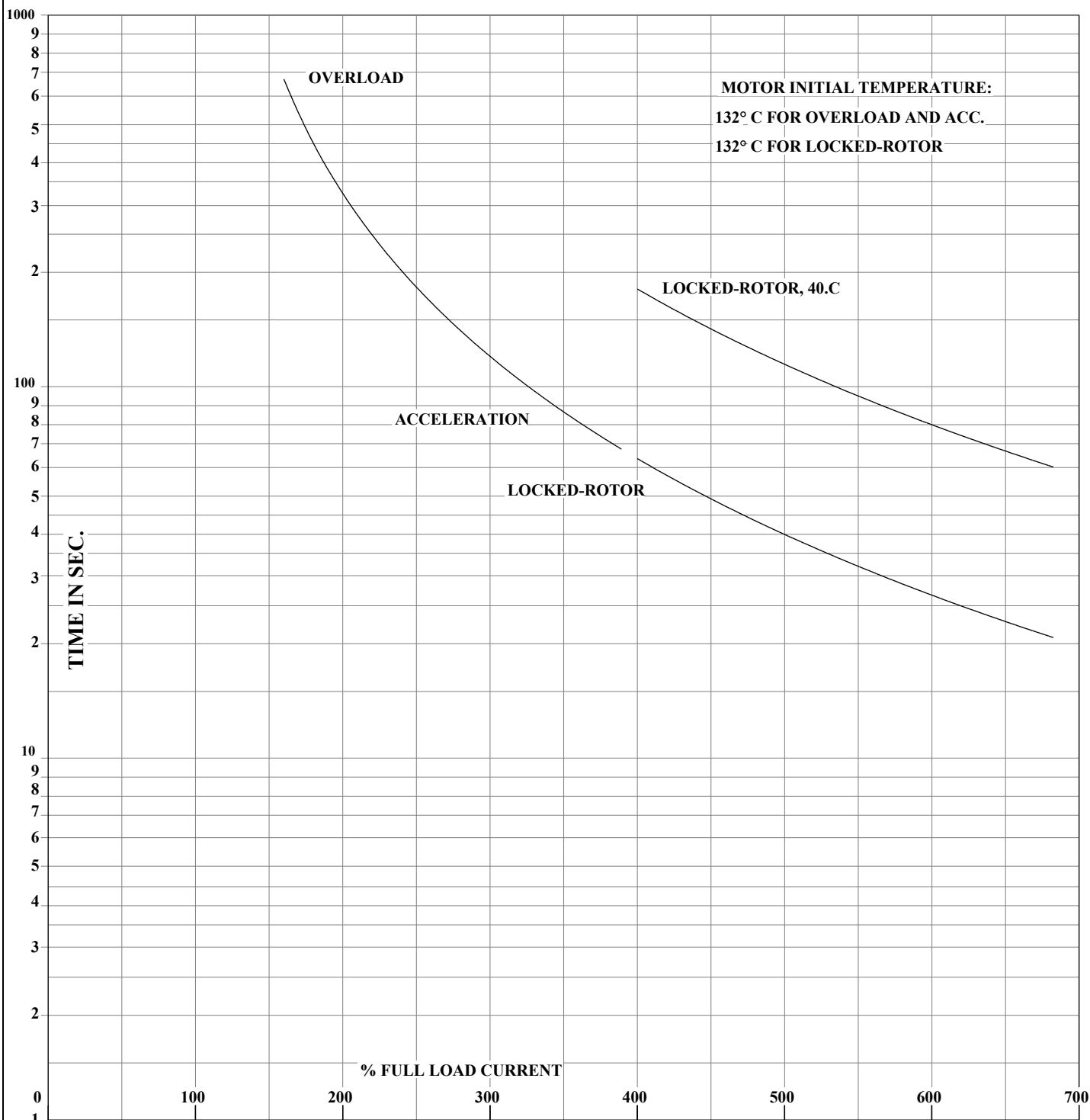
ENCLOSURE TEFC

STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)



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.

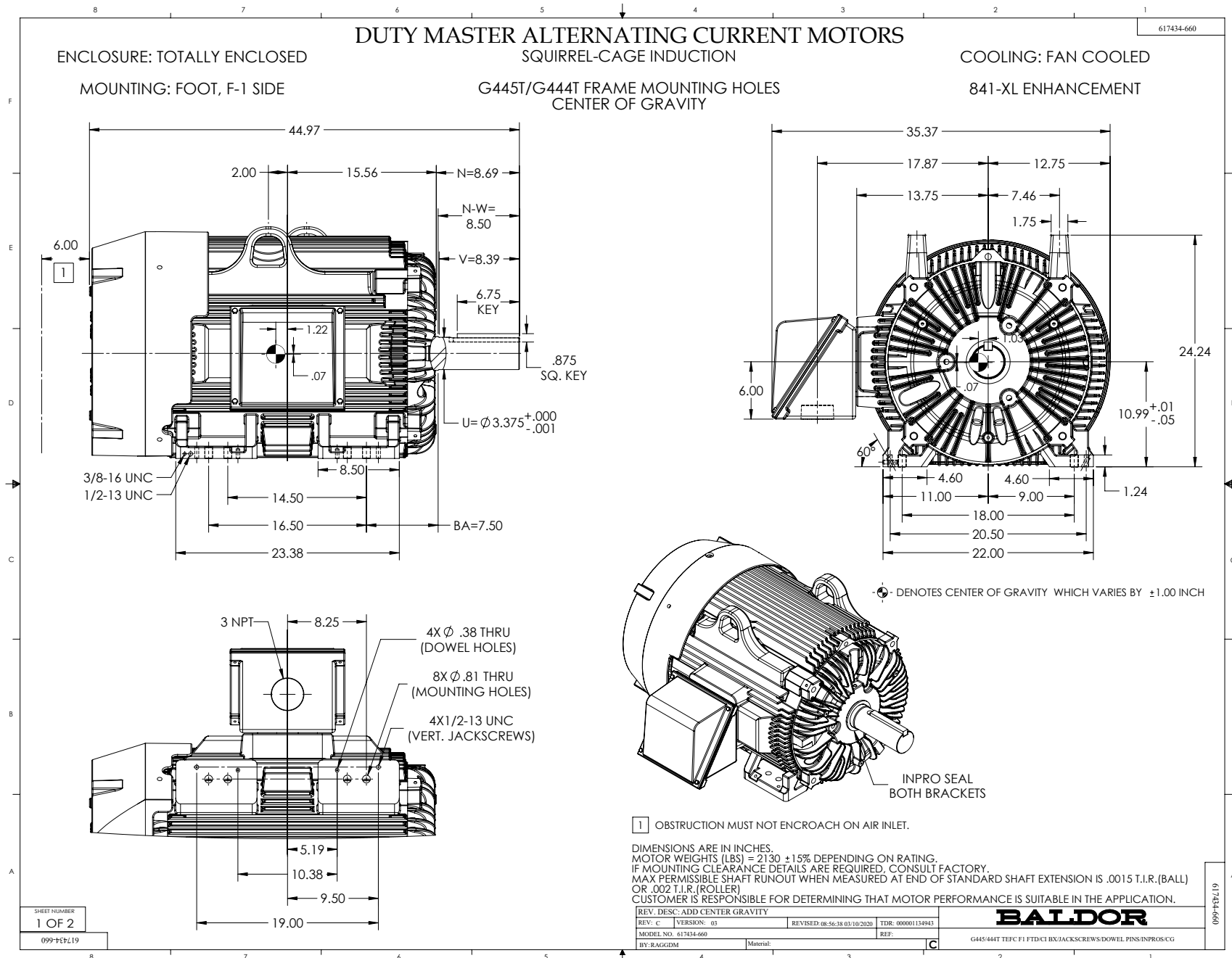


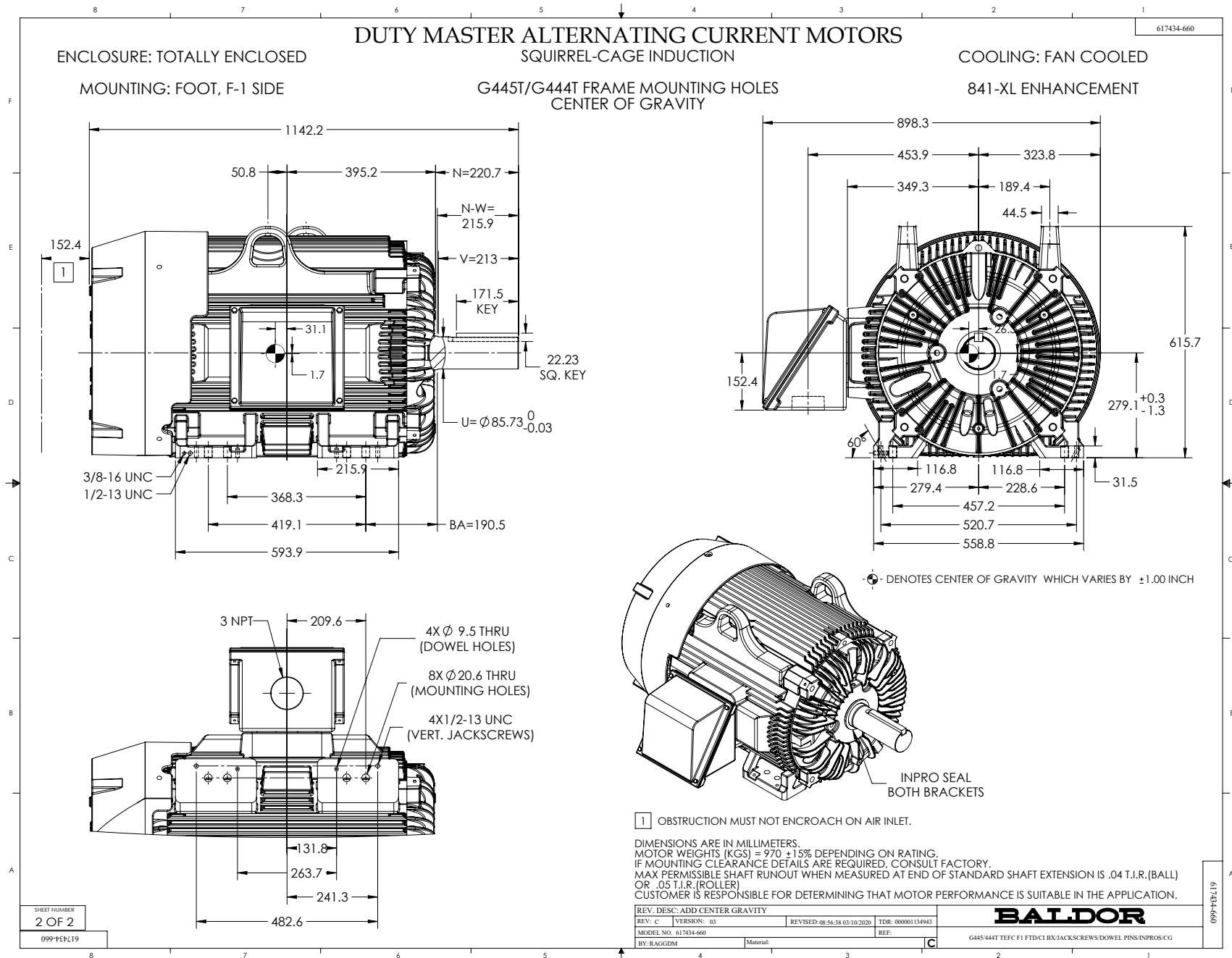
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APPROVED BY: R. MCELVEEN
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AC MOTOR
PERFORMANCE
DATA

A44WG3870-R001

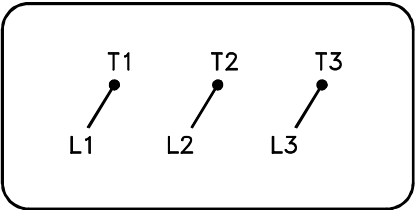
ISSUE DATE 05/04/21





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