



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	CL I 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	
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		

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

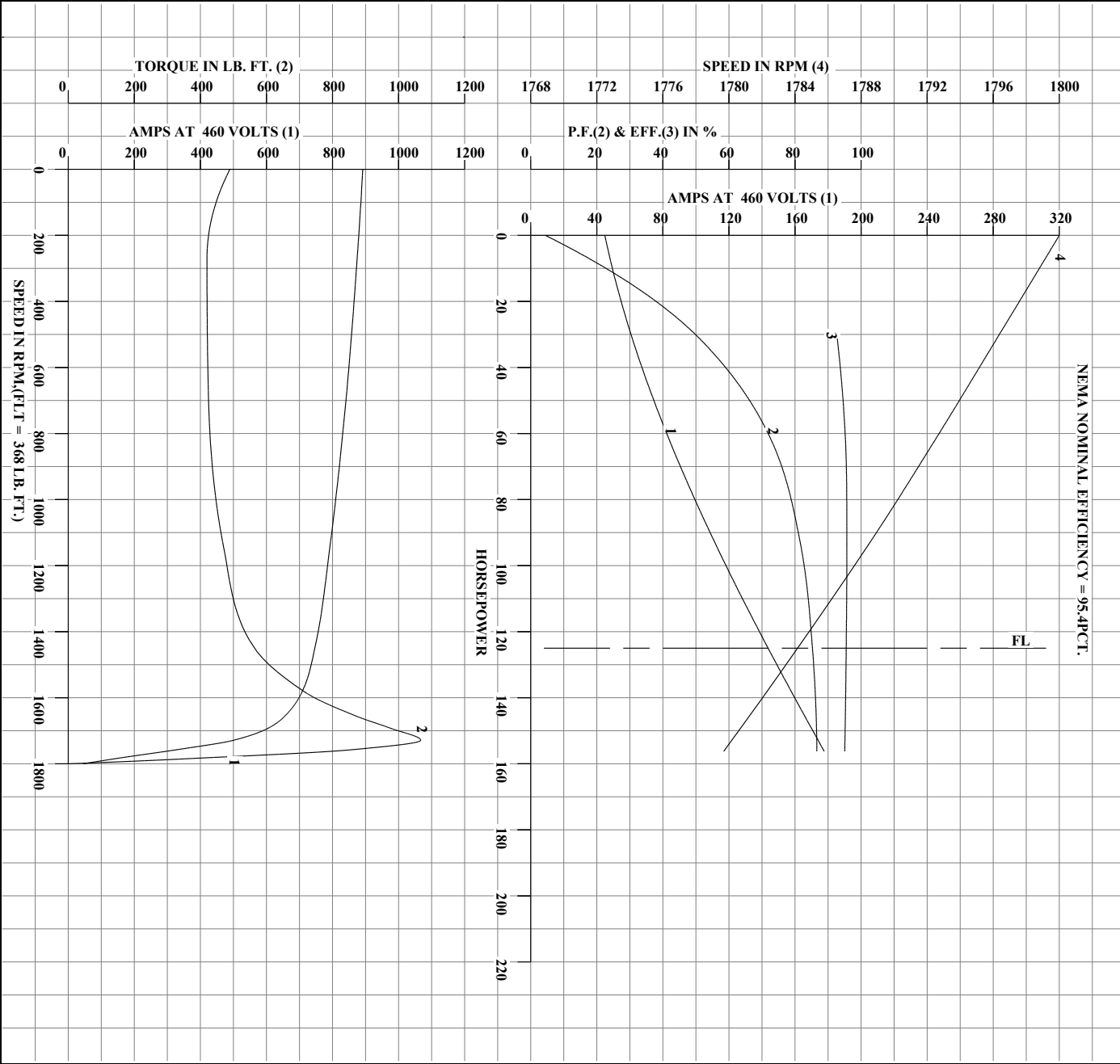
NEMA NOMINAL EFFICIENCY = 95.4PCT.

	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
	100%		

USERCHR1

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REL.S.O.	444	RPM	1785	S.F.	1.15	ROTOR	418143052KE
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)	



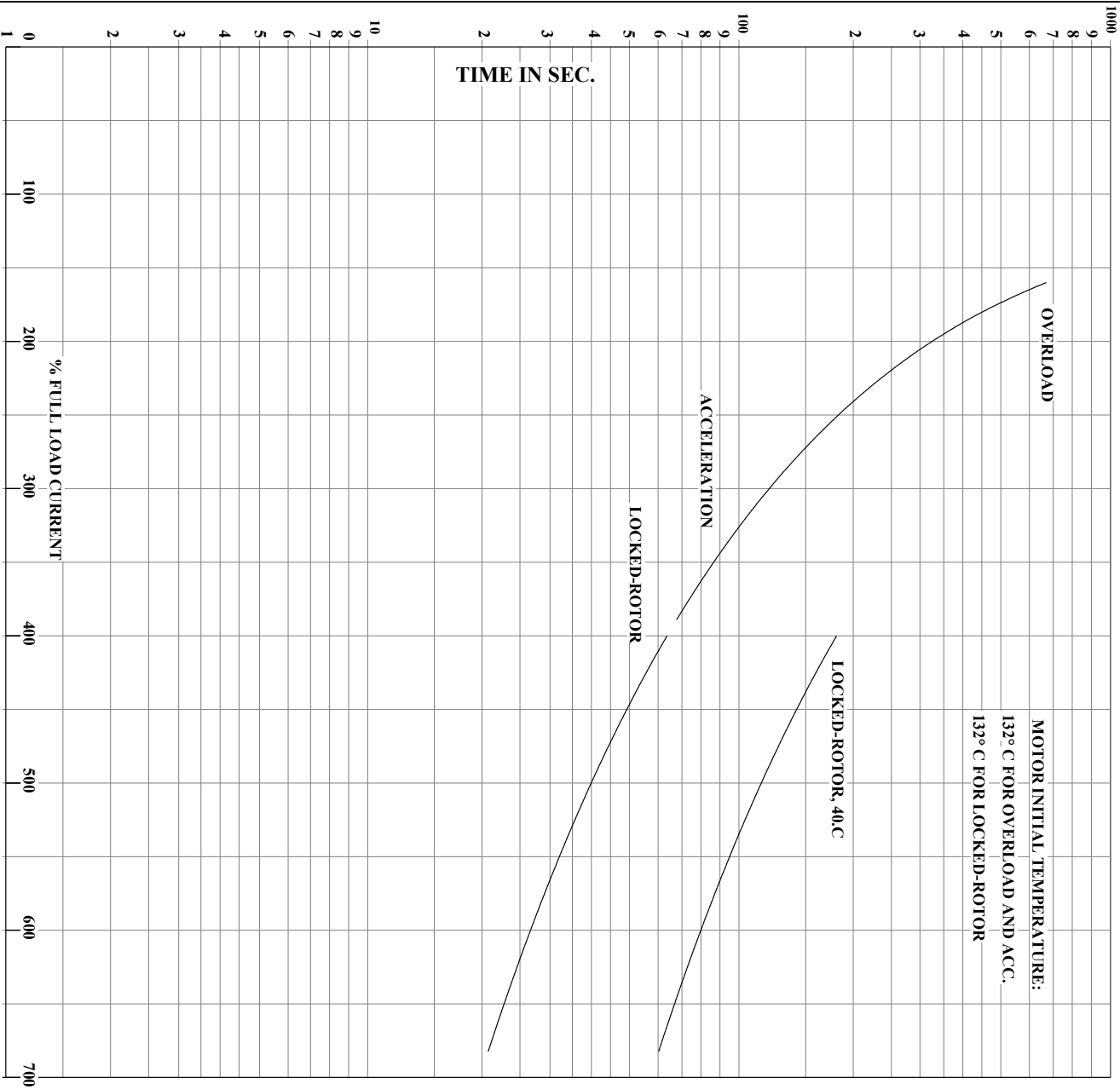
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

	DRAWN BY: <u>CD</u>	AC MOTOR PERFORMANCE DATA	A44WG3870-R001
	CHECKED BY: <u>CD</u> APPROVED BY: <u>R. MCELVEEN</u> DATE: <u>1/18/11</u>		

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REL.S.O.	FRAME 444	RPM 1785	S.F. 1.15	ROTOR 418143052KE
HP 125	VOLTS 460	AMPS 144	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	DUTY CONT	CODE LETTER G	ENCLOSURE TEFC	TEST DATE ---
PHASE / HERTZ 3/60	AMB °C / INSUL 40/F	E/S 498834	STATOR RES. @ 25°C .0383	OHMS (BETWEEN LINES)



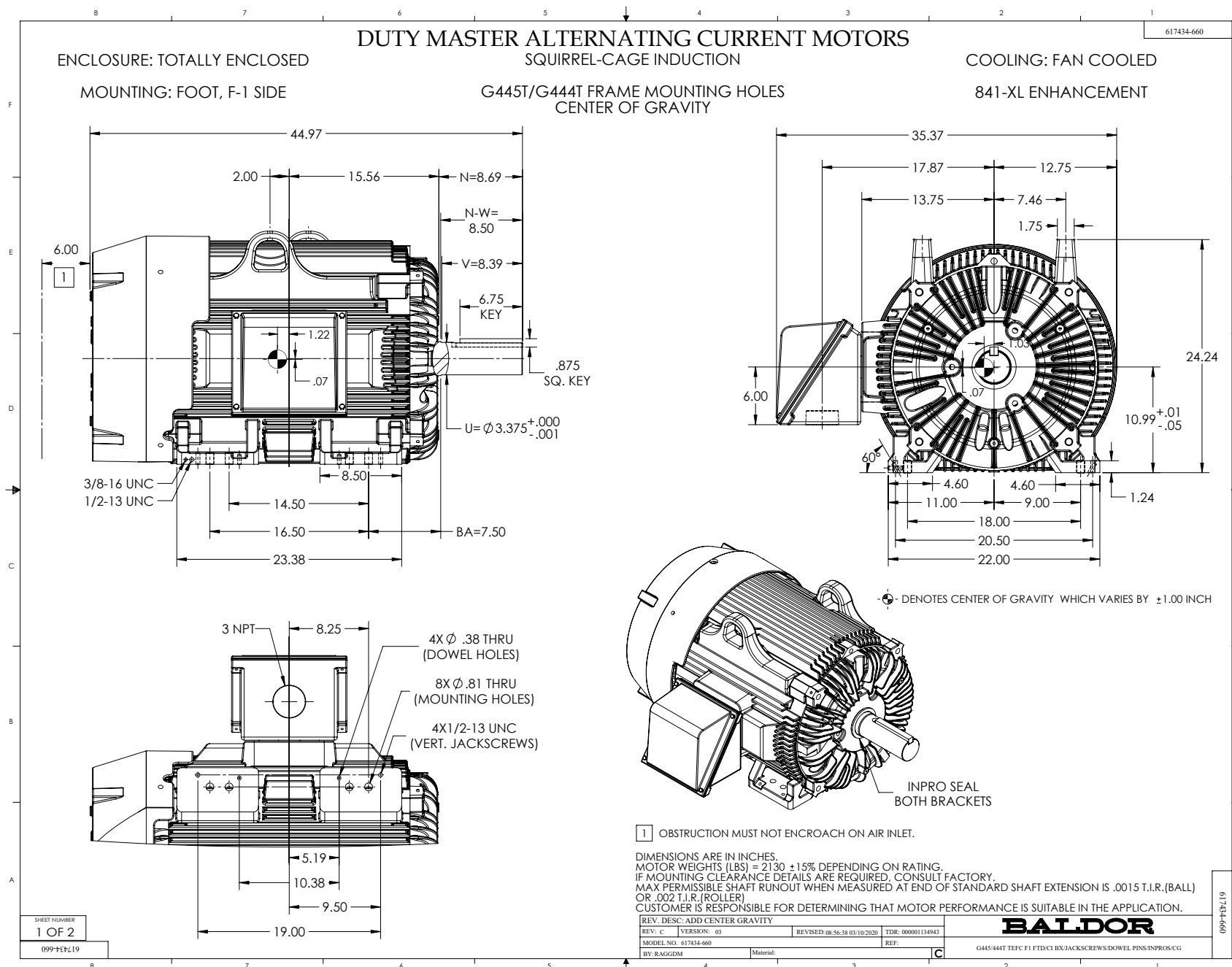
Thermal Limit Curve
NEMA Nominal Efficiency = 95.4PCT.

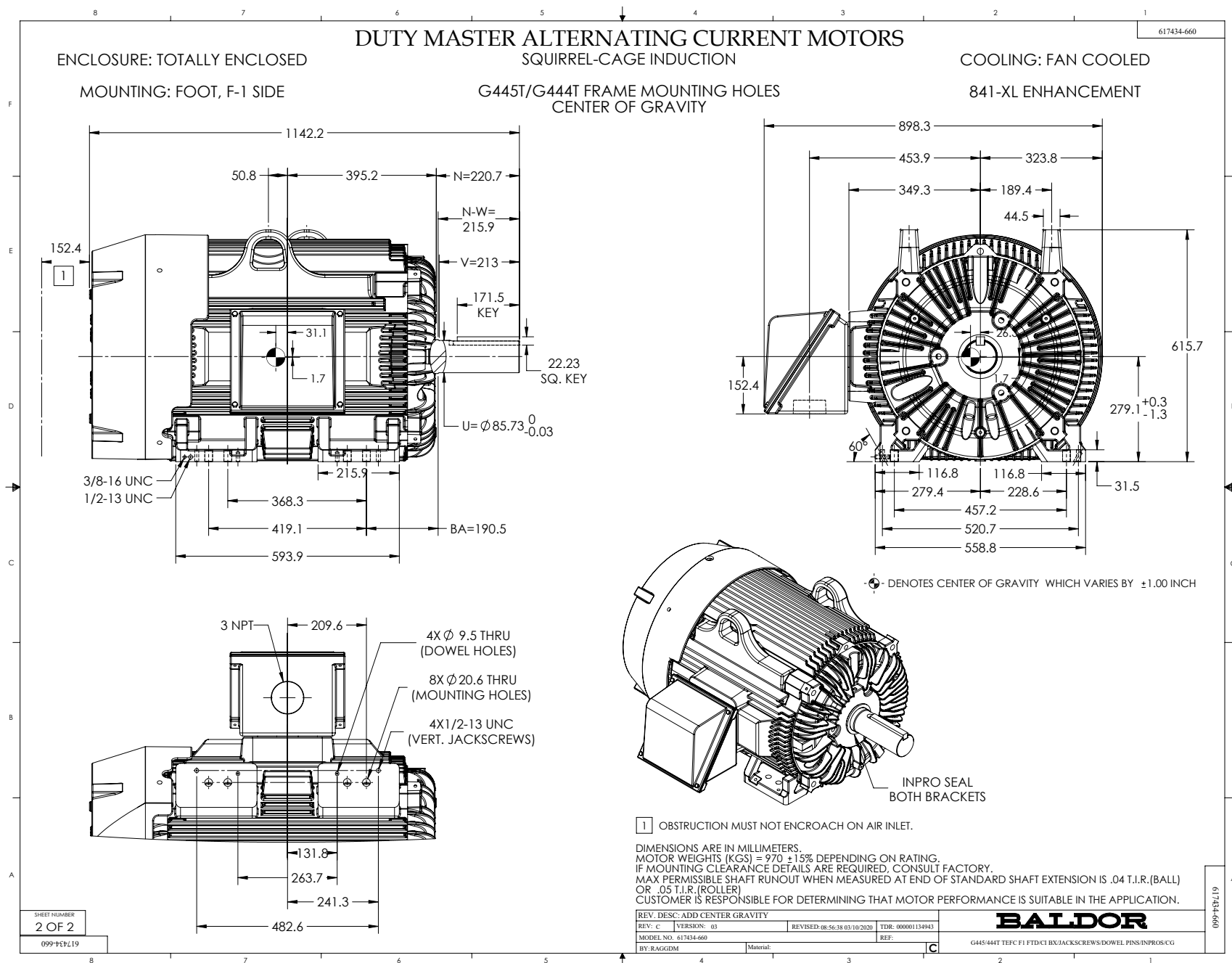
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	DRAWN BY: CD CHECKED BY: CD APPROVED BY: R. MCELVEEN DATE: 1/18/11	AC MOTOR PERFORMANCE DATA	A44WCG3870-R001 ISSUE DATE 05/04/21
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416820-036

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

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