

ABB BALDOR RELIANCE III

Customer information packet

ECP84411T-5

125HP, 1190RPM, 3PH, 60HZ, 445T, A44090M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445T
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	1200 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	15-60
Current @ Voltage	117.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	117.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6729
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	03-23-2022

Motor Standards	None
Motor Type	A44090M
Mounting Arrangement	F1
No Load Current	36.2 a
Number of Poles	6
Overall Length	44.97 IN
Power Factor	84
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	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566															
CAT NO	ECP84411T-5			SPEC NO.		A44-0000-6729									
HP	125	AMPS		117		VOLTS		575		DESIGN		B			
FRAME SIZE	445T	RPM		1190		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				84		NEMA-NOM-EFFICIENCY				95.0	
3/4 LOAD EFF.	95.4	IP	56	MAX CORR KVAR				15.87		GUARANTEED EFFICIENCY				94.1	
TEMP CODE	T3	TEMP =		200											
CHP HZ	60-90	CT HZ	15-60	VT HZ		0-60									
INVERTER-TEMP-CODE	T3														
SER.NO.				MOTOR WEIGHT											

000613007EX				
CAT NO	ECP84411T-5	SPEC NO.	A44-0000-6729	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		36.2
5 YEAR WARRANTY		WINDING RES @25 C	.0671	OHMS
MFG. DATE		SER.NO		

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP84411T-5 - 125HP, 1190RPM, 3PH, 60HZ, 445T, A44090M, TEFC																																		
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS																														
			445T			125			P			3/60			1190			575																														
AMPS							DUTY							AMB °C/ INSUL							S.F.							NEMA DESIGN							CODE LETTER							ENCLOSURE						
117							CONT							40/F							1.15							B							G							TEFC						
E/S							ROTOR							TEST S.O.							TEST DATE							STATOR RES. @25 °C OHMS (BETWEEN LINES)																				
-							418143088EE							---							---							.0670																				
PERFORMANCE																																																
LOAD							HP							AMPERES							RPM							% POWER FACTOR							% EFFICIENCY													
NO LOAD							0							33.3							1200							4.75							0													
1/4							31.3							48.9							1197							51.7							92.7													
2/4							62.5							67.3							1195							73.1							95.1													
3/4							93.7							90.1							1192							81.6							95.4													
4/4							125							116							1189							85.0							95.2													
5/4							156							143							1186							86.3							94.7													
SPEED TORQUE																																																
														RPM							TORQUE % FULL LOAD							TORQUE LB.-FT.							AMPERES													
LOCKED ROTOR														0							134							742							780													
PULL UP														168							117							645							750													
BREAKDOWN														1148							265							1461							445													
FULL LOAD														1189							100							552							116													
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																																																
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.																																																
														DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/27/23</u>														AC MOTOR PERFORMANCE DATA							A44WG6729-R001 DATE ISSUED 12/27/23													

FRAME 445T

RPM 1190

S.F. 1.15

ROTOR 418143088EE

HP 125

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 117

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

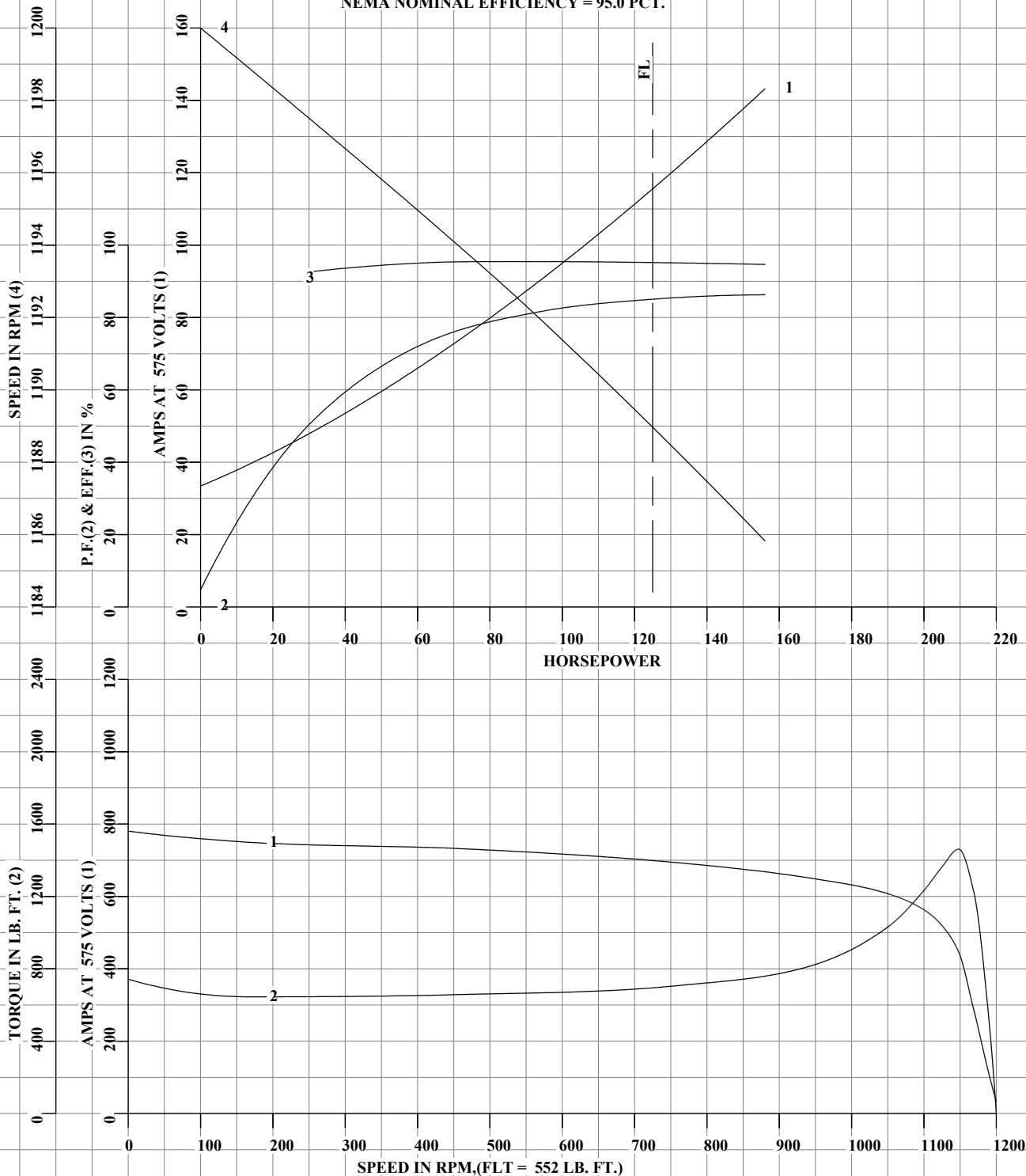
STATOR RES. @ 25°C .0670

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.0 PCT.



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

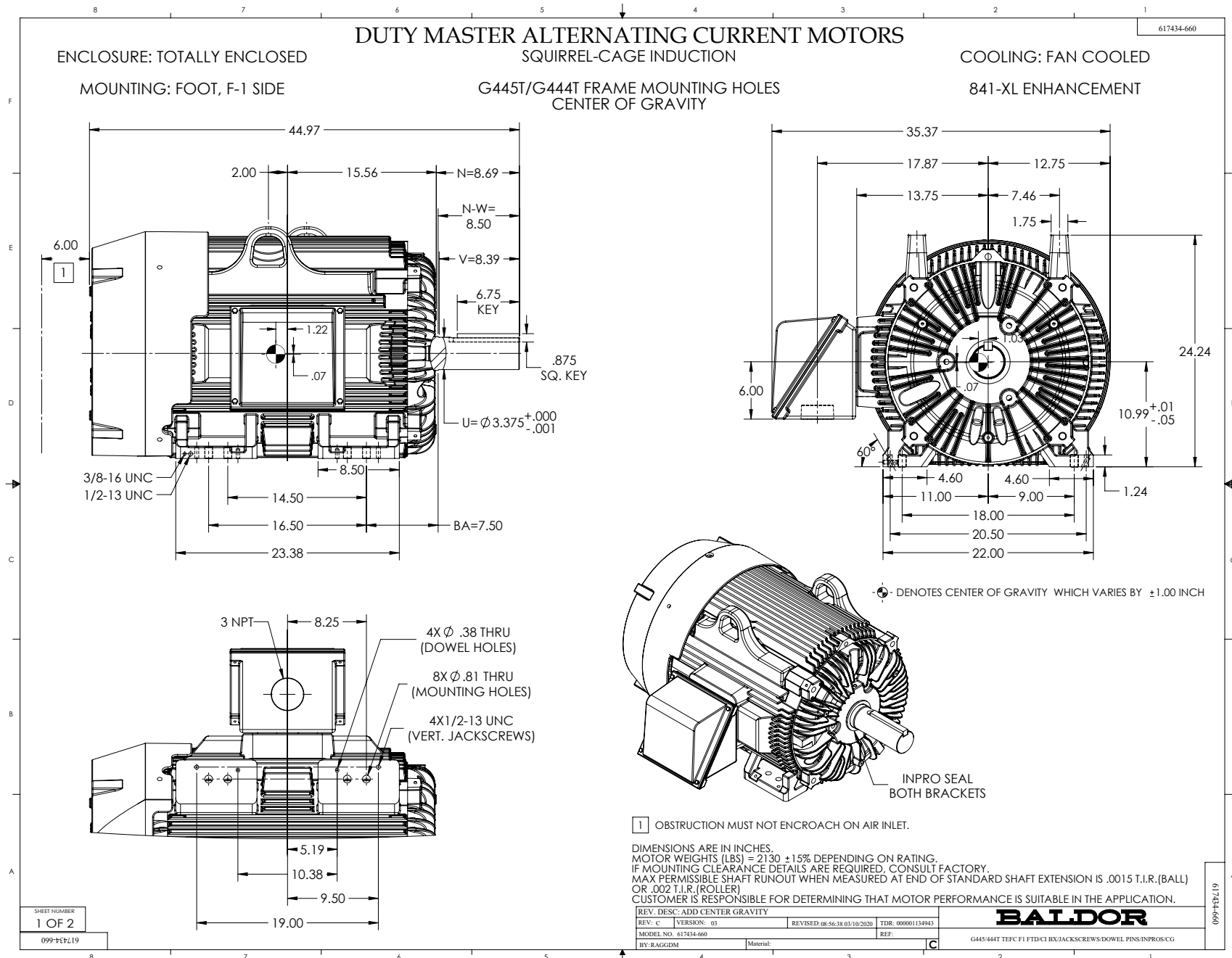


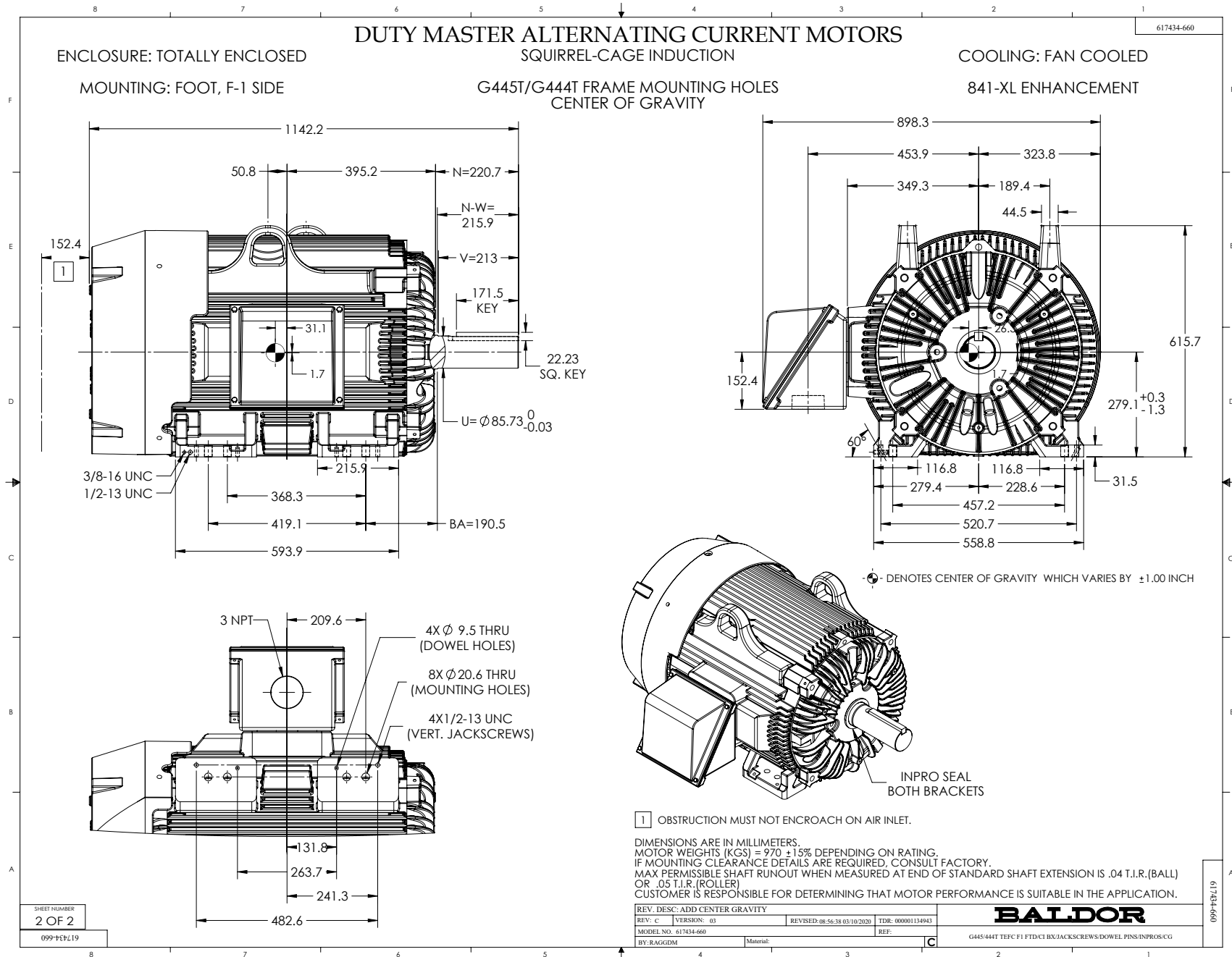
DRAWN BY: W. L. SMITH
CHECKED BY: C.E. JAMISON
APPROVED BY: W. L. SMITH
DATE: 12/27/23

AC MOTOR
PERFORMANCE
DATA

A44WG6729-R001

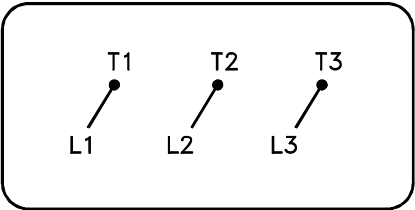
ISSUE DATE 12/27/23





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