

ABB BALDOR RELIANCE III

Customer information packet

ECP84409T-5

100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, 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	100.000 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	95.000 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	95.0 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	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4105
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	03-04-2022

Motor Standards	None
Motor Type	A44064M
Mounting Arrangement	F1
No Load Current	31.9 a
Number of Poles	6
Overall Length	44.97 IN
Power Factor	82
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	ECP84409T-5			SPEC NO.		A44-0000-4105											
HP	100	AMPS		95	VOLTS		575		DESIGN		B						
FRAME SIZE	444T	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				82		NEMA-NOM-EFFICIENCY				95			
3/4 LOAD EFF.	95.2	IP		56	MAX CORR KVAR				27		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	ECP84409T-5	SPEC NO.	A44-0000-4105	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE	31.9	
5 YEAR WARRANTY		WINDING RES @25 C	0.0839	OHMS
MFG. DATE		SER.NO		

FRAME 444T

RPM 1190

VOLTS 575

NEMA DESIGN B

HP 100

AMPS 95.2

CODE LETTER G

TEST S.O. CALCULATED DATA

TYPE P

DUTY CONT

ENCLOSURE FCXE

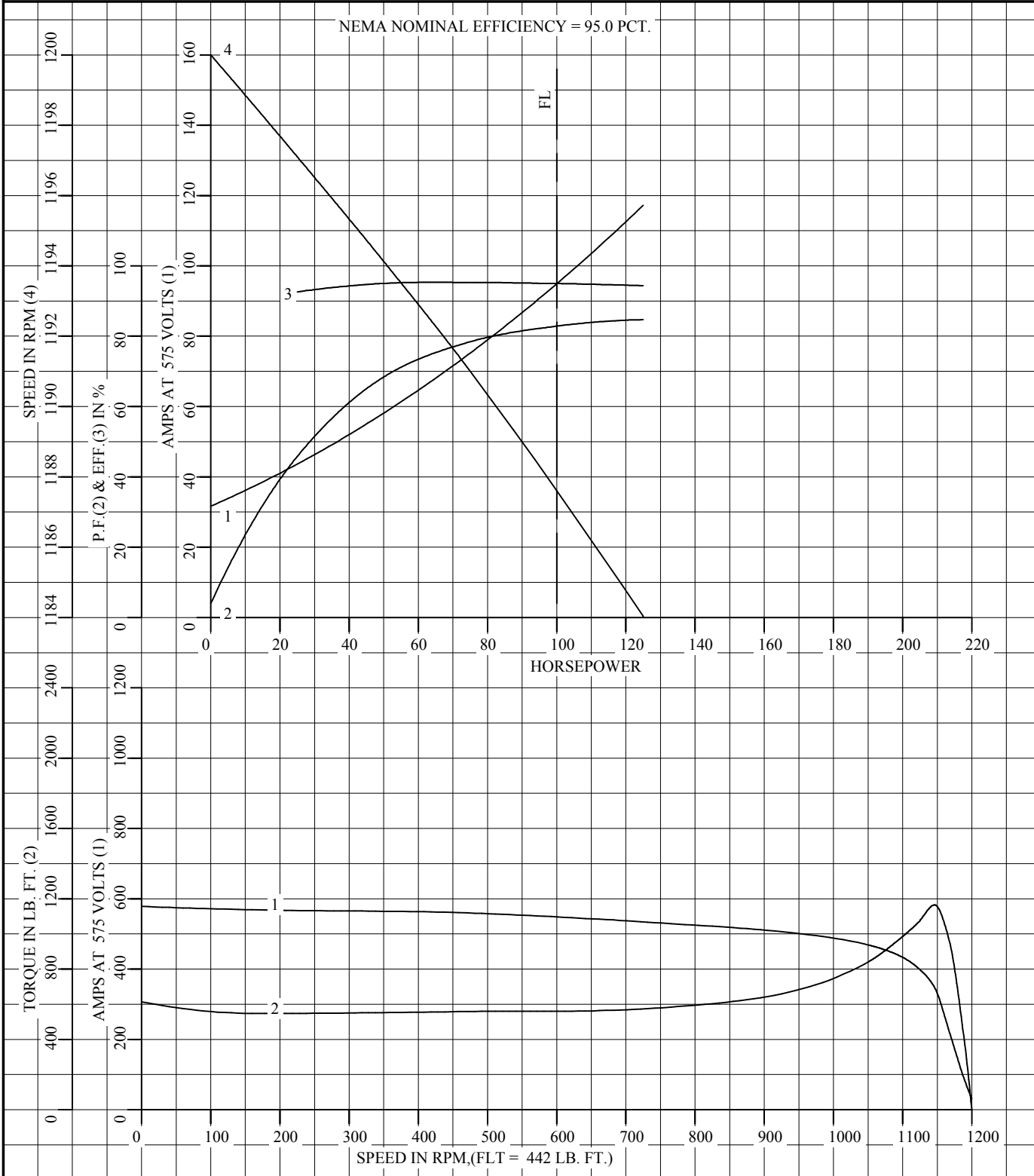
TEST DATE ---

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497820

STATOR RES. @ 25 °C .0855
OHMS (BETWEEN LINES)



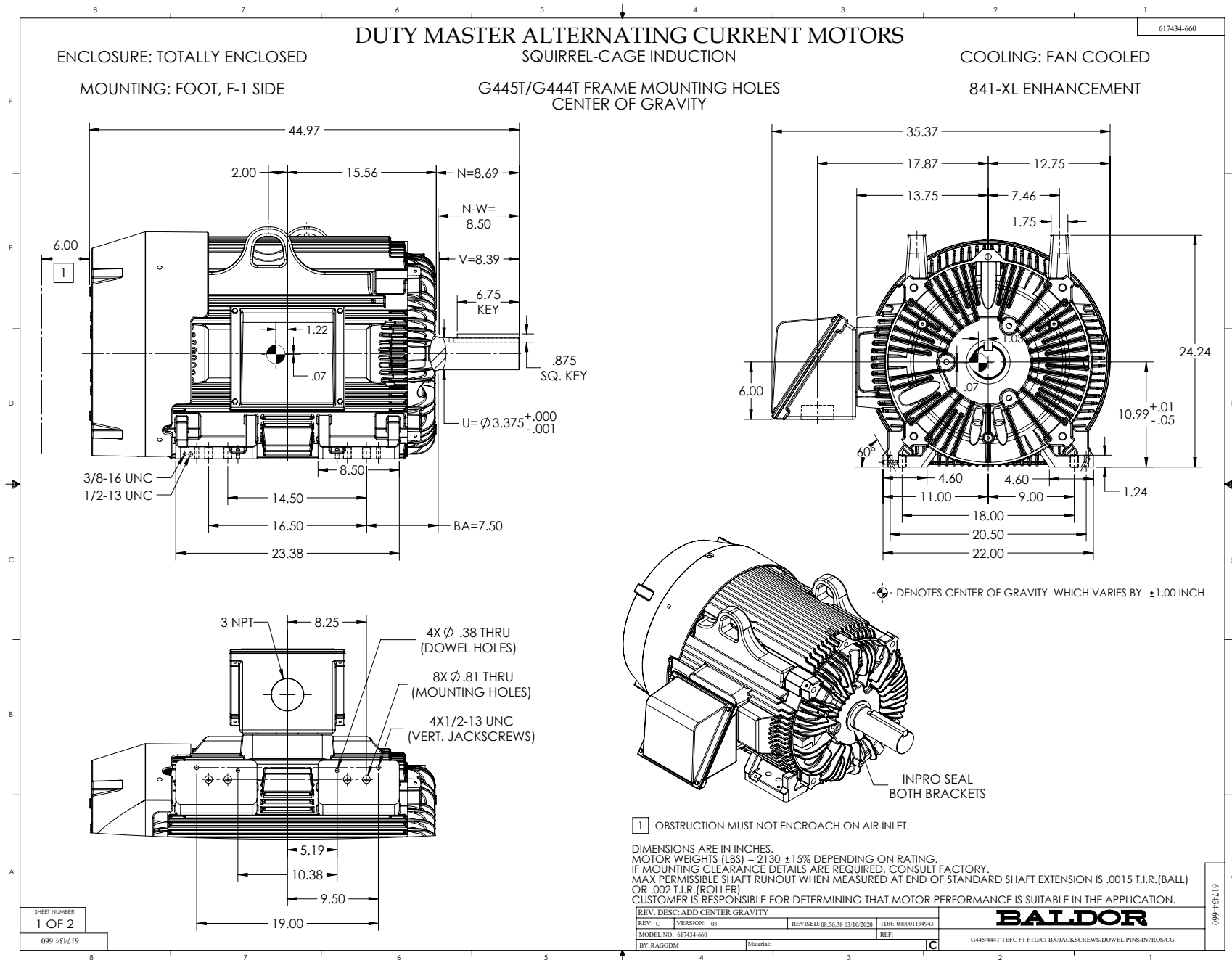
AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

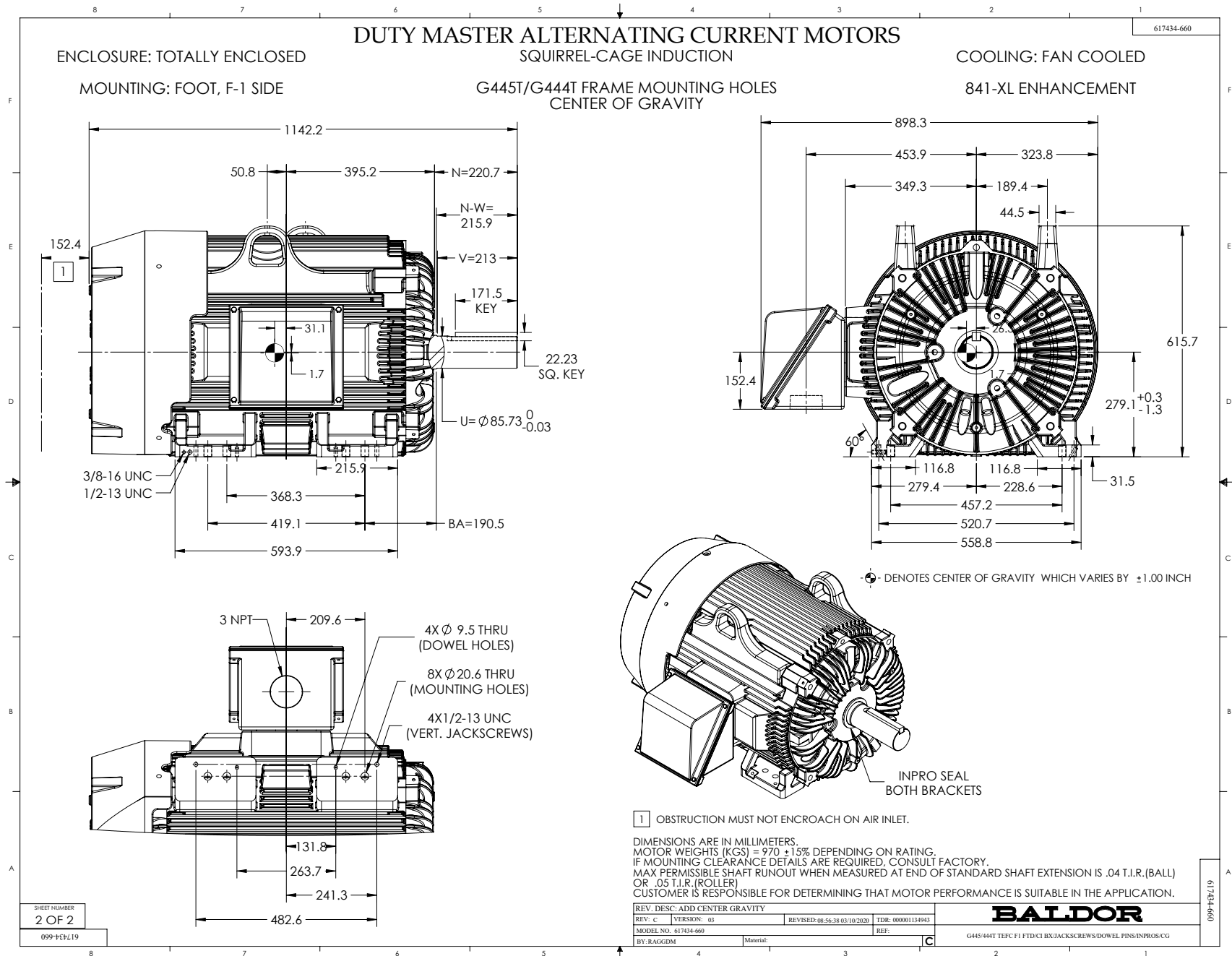
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J. P. TSAO
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 10/26/11

**A-C MOTOR
PERFORMANCE CURVES**
A44WG4105-R001
ISSUE DATE 10/26/11

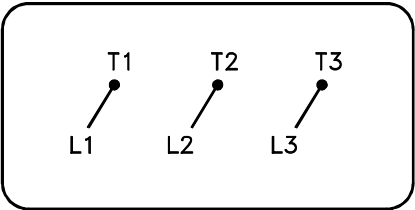
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	444T	100	P	3/60	1190	575			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
95.2	CONT	40/F	1.15	B	G	FCXE			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
497820	418143098VE	---	---	.0855					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	31.5	1200	4.00	0				
1/4	25.0	44.2	1197	45.8	92.6				
2/4	50.0	57.7	1194	68.4	95.0				
3/4	75.0	75.2	1191	78.4	95.3				
4/4	100	95.2	1188	82.9	95.0				
5/4	125	117	1184	84.7	94.4				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	139	614	578				
PULL UP		168	124	548	568				
BREAKDOWN		1146	263	1165	347				
FULL LOAD		1188	100	442	95.2				
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.									
		DR. BY J. P. TSAO		A-C MOTOR PERFORMANCE DATA					
		CK. BY W. L. SMITH							
		APP. BY W. L. SMITH							
		DATE 10/26/11							
				A44WG4105-R001					
				ISSUE DATE 10/26/11					





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