

ABB BALDOR RELIANCE III

Customer information packet

ECP84409TR-4

100HP, 1190RPM, 3PH, 60HZ, 0444T, 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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	15-60
Current @ Voltage	119.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	08-06-2019

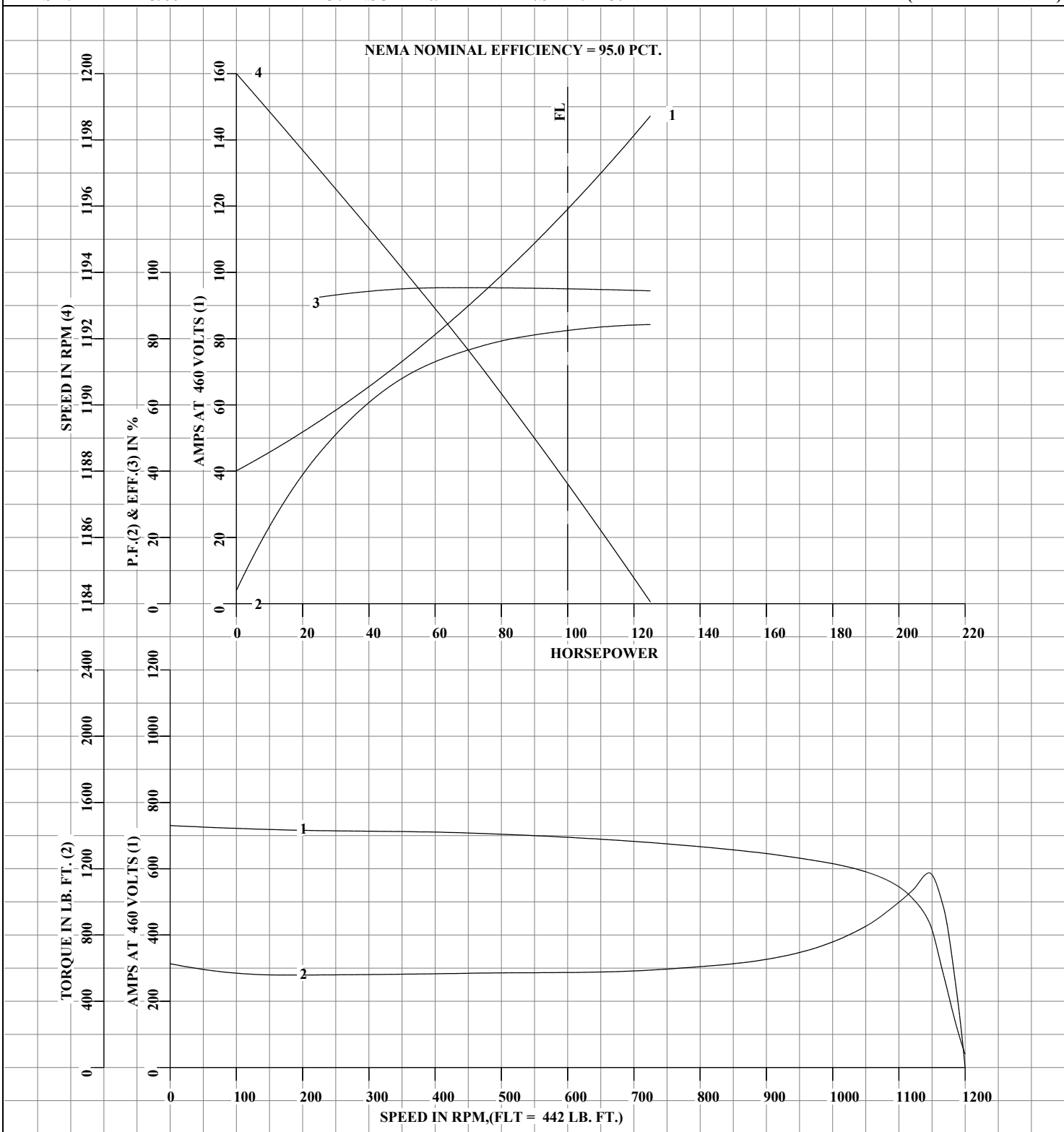
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	None
Motor Type	A44064M
Mounting Arrangement	F1
No Load Current	39.4 a
Number of Poles	6
Overall Length	44.97 IN
Power Factor	82
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	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	ECP84409TR-4			SPEC NO.		A44-9012-3905									
HP	100	AMPS		119		VOLTS		460		DESIGN		B			
FRAME SIZE	444T	RPM		1190		HZ		60	AMB		40	SF 1.15			
D.E. BRG.DATA	NU222			O.D.E. BRG.DATA			6318		PH		3	DUTY CONT INSUL.CLASS			
D.E. BRG.	110RU02M30X			TYPE ENCL		TEFC		CODE		G					
O.D.E. BRG.	90BC03J30X			POWER FACTOR			82		NEMA-NOM-EFFICIENCY				95		
3/4 LOAD EFF.	95.3	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	ECP84409TR-4	SPEC NO.	A44-9012-3905	
NO. ROTOR BARS	71	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		39.4
5 YEAR WARRANTY		WINDING RES @25 C	.05474	OHMS
MFG. DATE		SER.NO		
	SFA 132			

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP84409TR-4 - 100HP, 1190RPM, 3PH, 60HZ, 0444T, TEFC, F1																																		
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS																														
			444T			100			P			3/60			1190			460																														
AMPS							DUTY							AMB °C/ INSUL							S.F.							NEMA DESIGN							CODE LETTER							ENCLOSURE						
119							CONT							40/F							1.15							B							G							TEFC						
E/S							ROTOR							TEST S.O.							TEST DATE							STATOR RES. @25 °C OHMS (BETWEEN LINES)																				
497780							418143098VE							---							---							.0547																				
PERFORMANCE																																																
LOAD							HP							AMPERES							RPM							% POWER FACTOR							% EFFICIENCY													
NO LOAD							0							39.9							1200							4.01							0													
1/4							25.0							55.8							1197							45.5							92.5													
2/4							50.0							72.5							1194							68.0							95.0													
3/4							75.0							94.3							1191							78.0							95.3													
4/4							100							119							1188							82.5							95.0													
5/4							125							147							1184							84.3							94.4													
SPEED TORQUE																																																
														RPM							TORQUE % FULL LOAD							TORQUE LB.-FT.							AMPERES													
LOCKED ROTOR														0							142							627							730													
PULL UP														168							126							558							717													
BREAKDOWN														1146							266							1175							438													
FULL LOAD														1188							100							442							119													
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 = 95.0 PCT.																																																
														DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/06/10</u>														AC MOTOR PERFORMANCE DATA							A44WG3905-R001 DATE ISSUED 08/09/19													



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



DRAWN BY: W. L. SMITH
 CHECKED BY: J.J.HARRISON
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AC MOTOR
 PERFORMANCE
 DATA

A44WG3905-R001

ISSUE DATE 08/09/19

FRAME 444T

RPM 1190

S.F. 1.15

ROTOR 418145098VE

HP 100

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 119

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

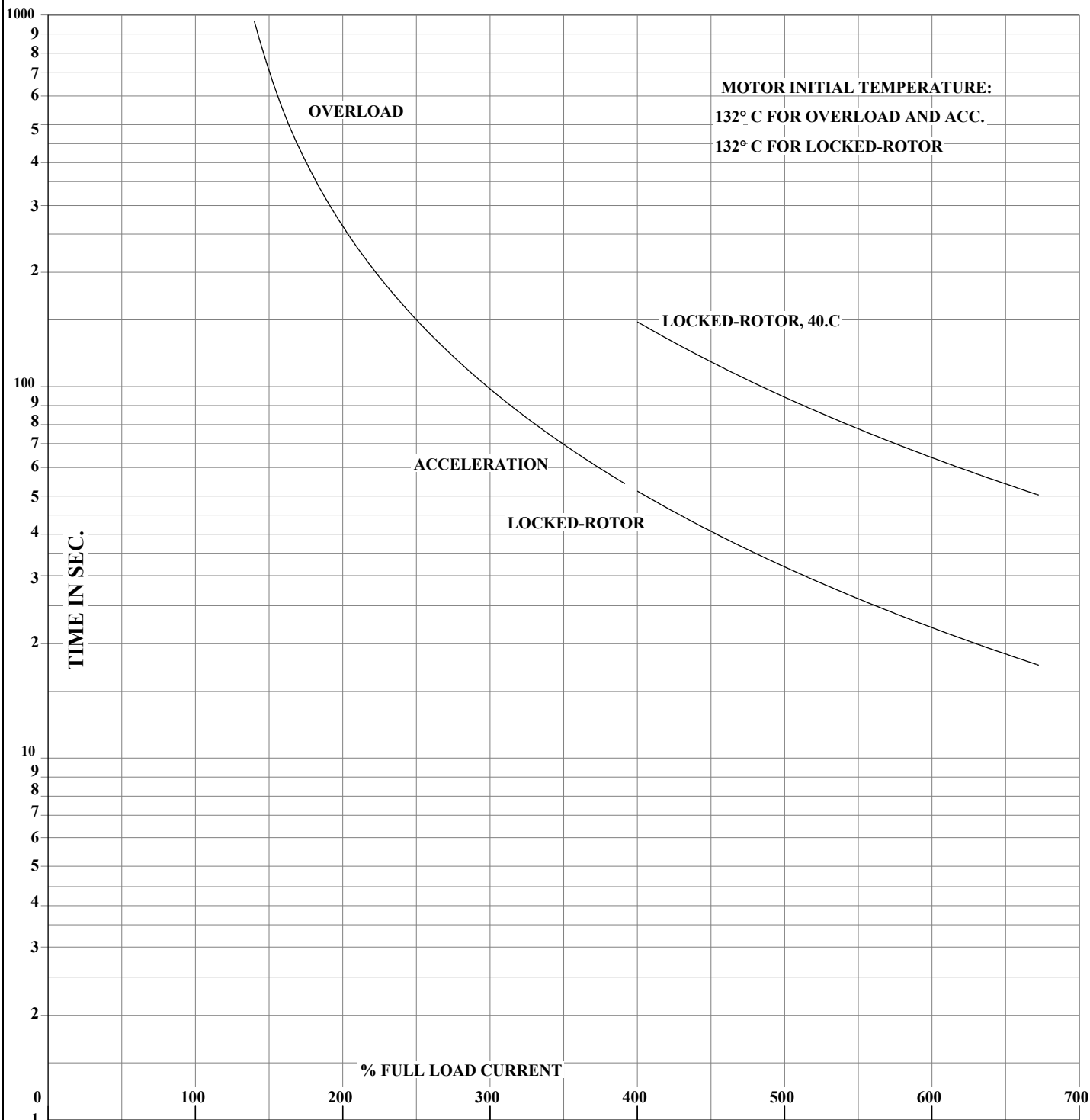
ENCLOSURE TEFC

STATOR RES. @ 25°C .0547

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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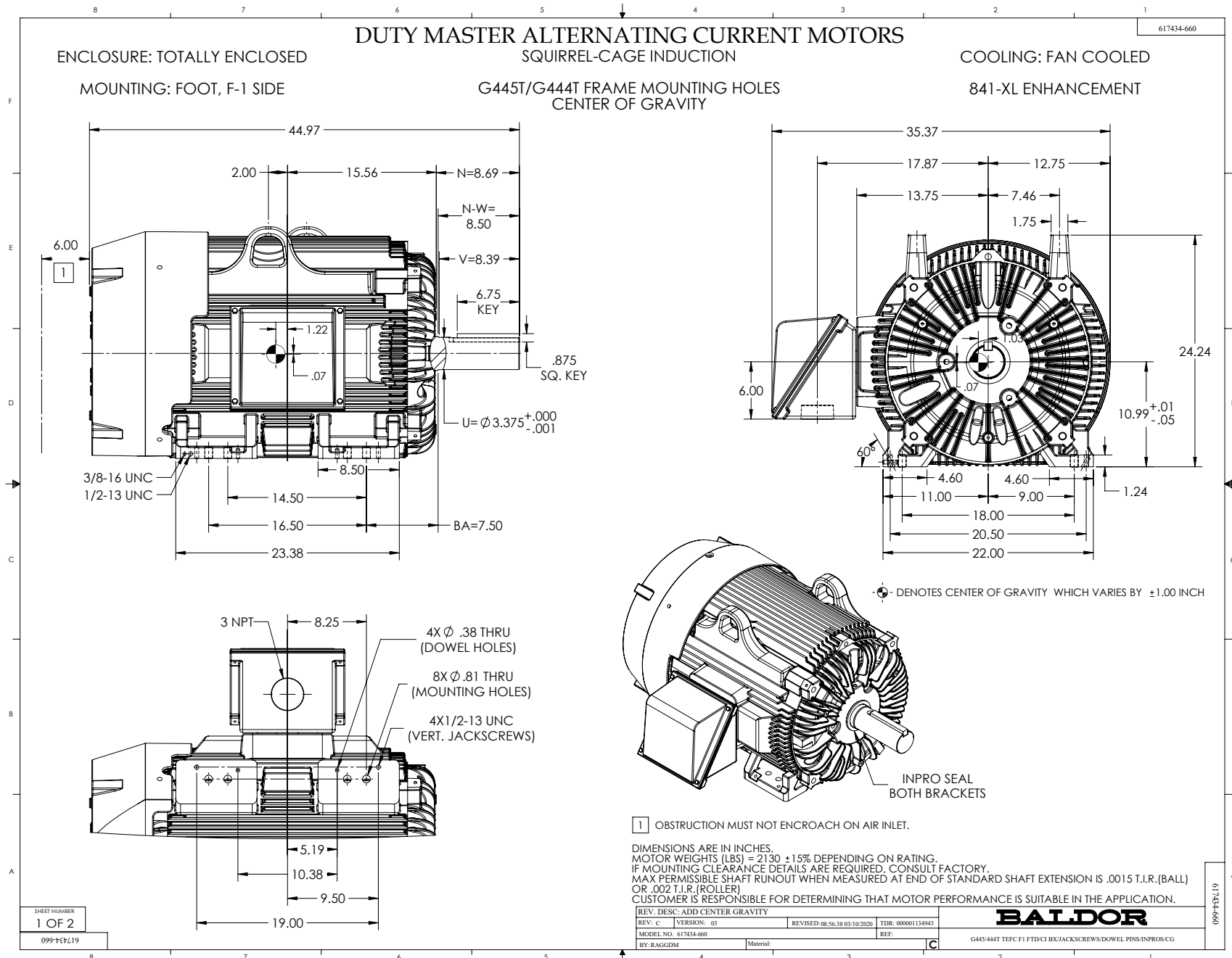


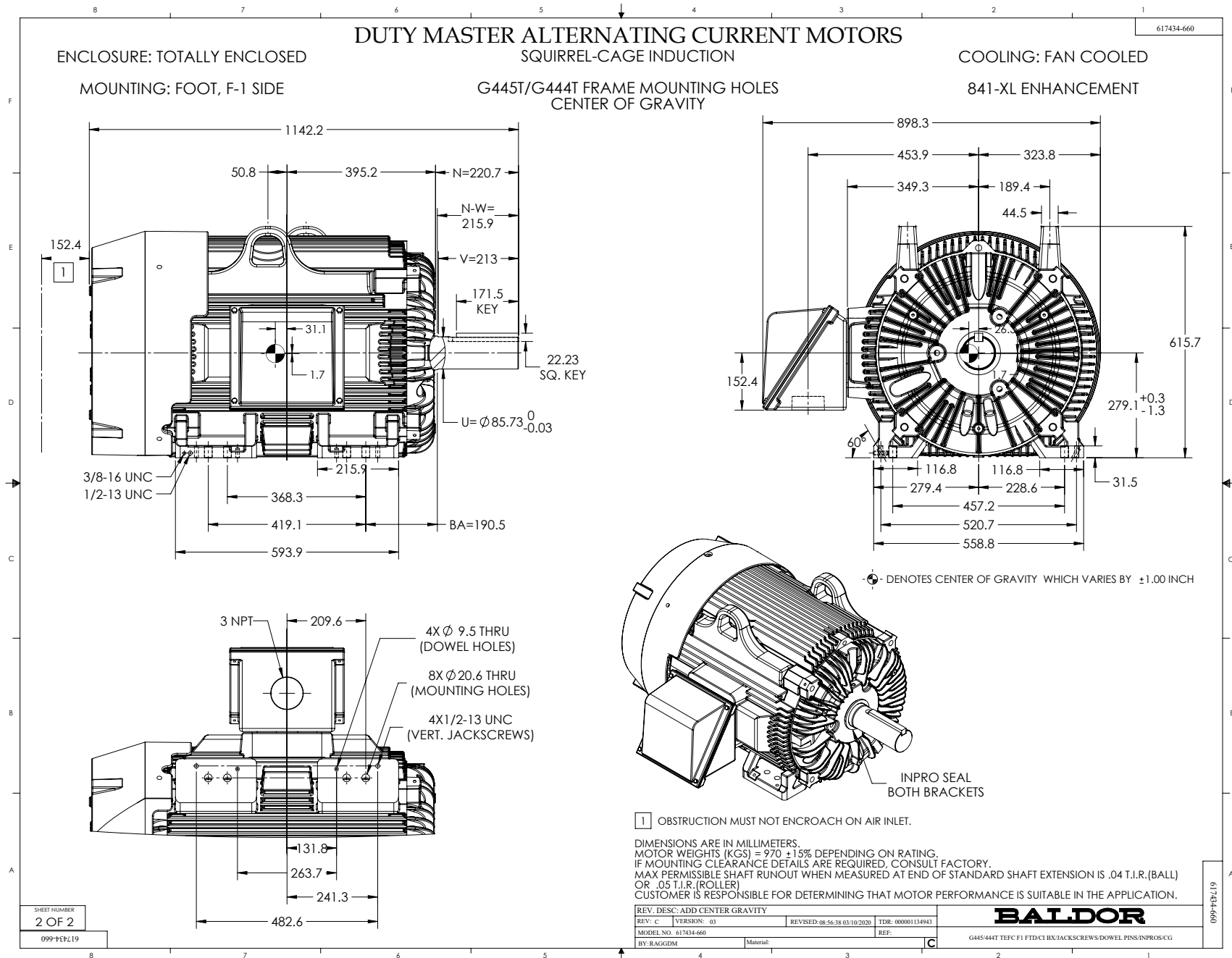
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PERFORMANCE
DATA

A44WG3905-R001

ISSUE DATE 08/09/19





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