

ABB BALDOR RELIANCE III

Customer information packet

ECP844306TR-4

300HP, 1190RPM, 3PH, 60HZ, L449T, TEFC, F1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	30-60
Current @ Voltage	340.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	340.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4970
Layout	617434-820
Eff. date	03-18-2024
CD Diagram	416820-036
Poles	06
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	12-19-2019

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	60.47 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.00
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

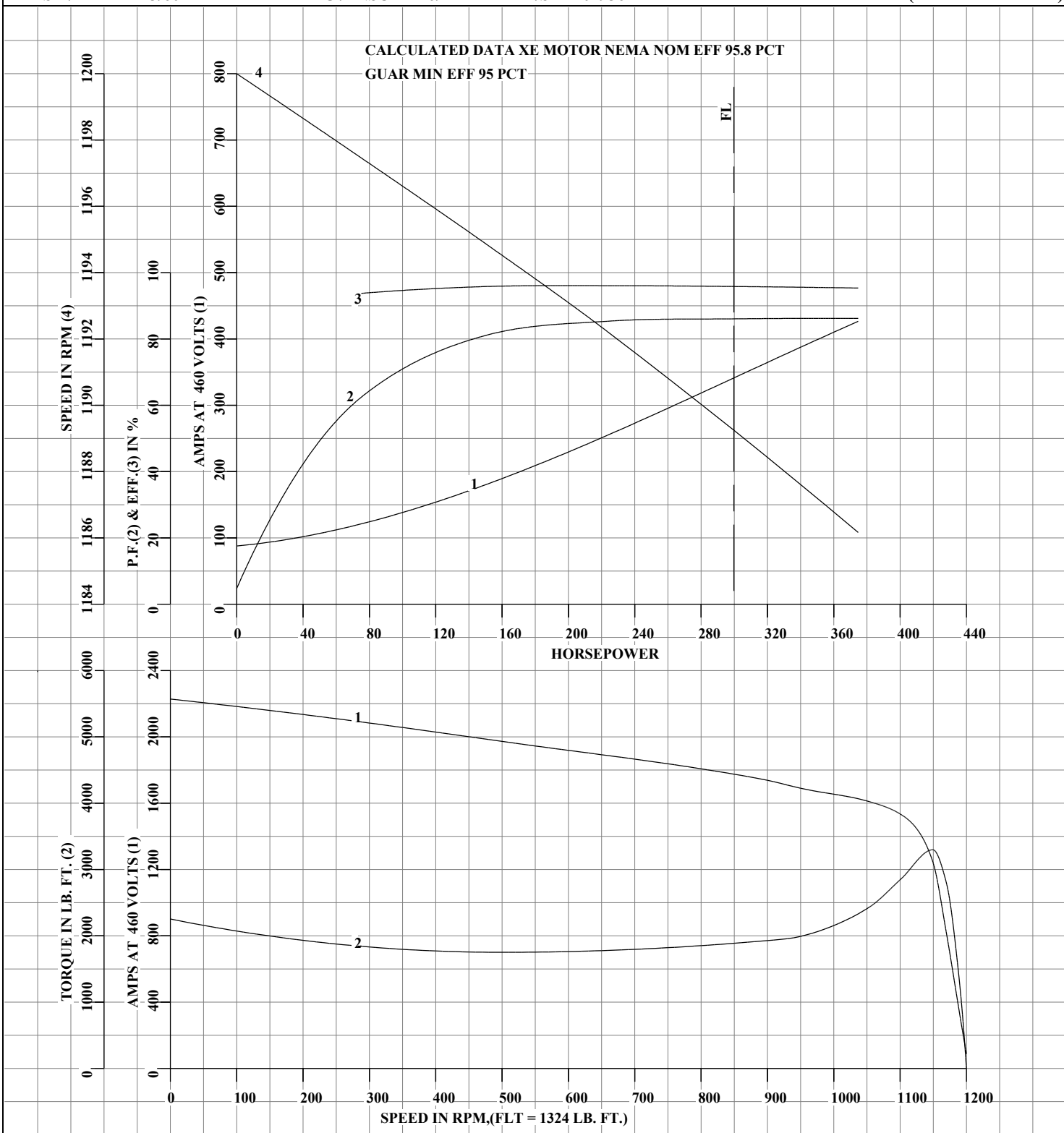
Nameplate

NP2496L	
MOBIL SHC -220 GREASE	

NP4566

CAT NO	ECP844306TR-4			SPEC NO.		A44-8814-4970						
HP	300	AMPS	340	VOLTS		460	DESIGN		B			
FRAME SIZE	L449T	RPM	1190	HZ		60	AMB	40	SF	1.00		
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA		6318		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X		TYPE	ENCL	TEFC	CODE	G					
O.D.E. BRG.	90BC03J30X		POWER FACTOR			86	NEMA-NOM-EFFICIENCY			95.8		
3/4 LOAD EFF.	96.1	IP	56	MAX CORR KVAR			61	GUARANTEED EFFICIENCY			95	
TEMP CODE	T3	TEMP =	200									
CHP HZ	60-90	CT HZ	30-60	VT HZ	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.				MOTOR WEIGHT								

ECP844306TR-4 - 300HP, 1190RPM, 3PH, 60HZ, L449T, TEFC, F1						
CUSTOMER INFORMATION PACKET		HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
FRAME						
L449T		300	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
340	CONT	40/F	1.00	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
401936	418143-087-SE	---	---	.0136		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	88.1	1200	4.76	0	
1/4	75.1	120	1197	62.4	93.8	
2/4	150	181	1195	81.0	95.8	
3/4	225	257	1192	85.4	96.1	
4/4	300	340	1189	86.1	95.8	
5/4	375	427	1186	86.2	95.4	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	170	2253	2228	
PULL UP		500	132	1751	1973	
BREAKDOWN		1149	249	3298	1245	
FULL LOAD		1189	100	1324	340	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA CALCULATED DATA XE MOTOR NEMA NOM EFF 95.8 PCT GUAR MIN EFF 95 PCT						
		DRAWN BY: <u>E.J.CHRISTIAN</u> CHECKED BY: <u>T. KELATI</u> APPROVED BY: <u>E.J.CHRISTIAN</u> DATE: <u>11/08/2013</u>		AC MOTOR PERFORMANCE DATA		A44WG4970-R009 DATE ISSUED 12/17/19



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



DRAWN BY: E.J. CHRISTIAN
CHECKED BY: T. KELATI
APPROVED BY: E.J. CHRISTIAN
DATE: 11/08/2013

AC MOTOR
PERFORMANCE
DATA

A44WG4970-R009

ISSUE DATE 12/17/19

FRAME L449T

RPM 1190

S.F. 1.00

ROTOR 418143-087-SE

HP 300

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 340

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

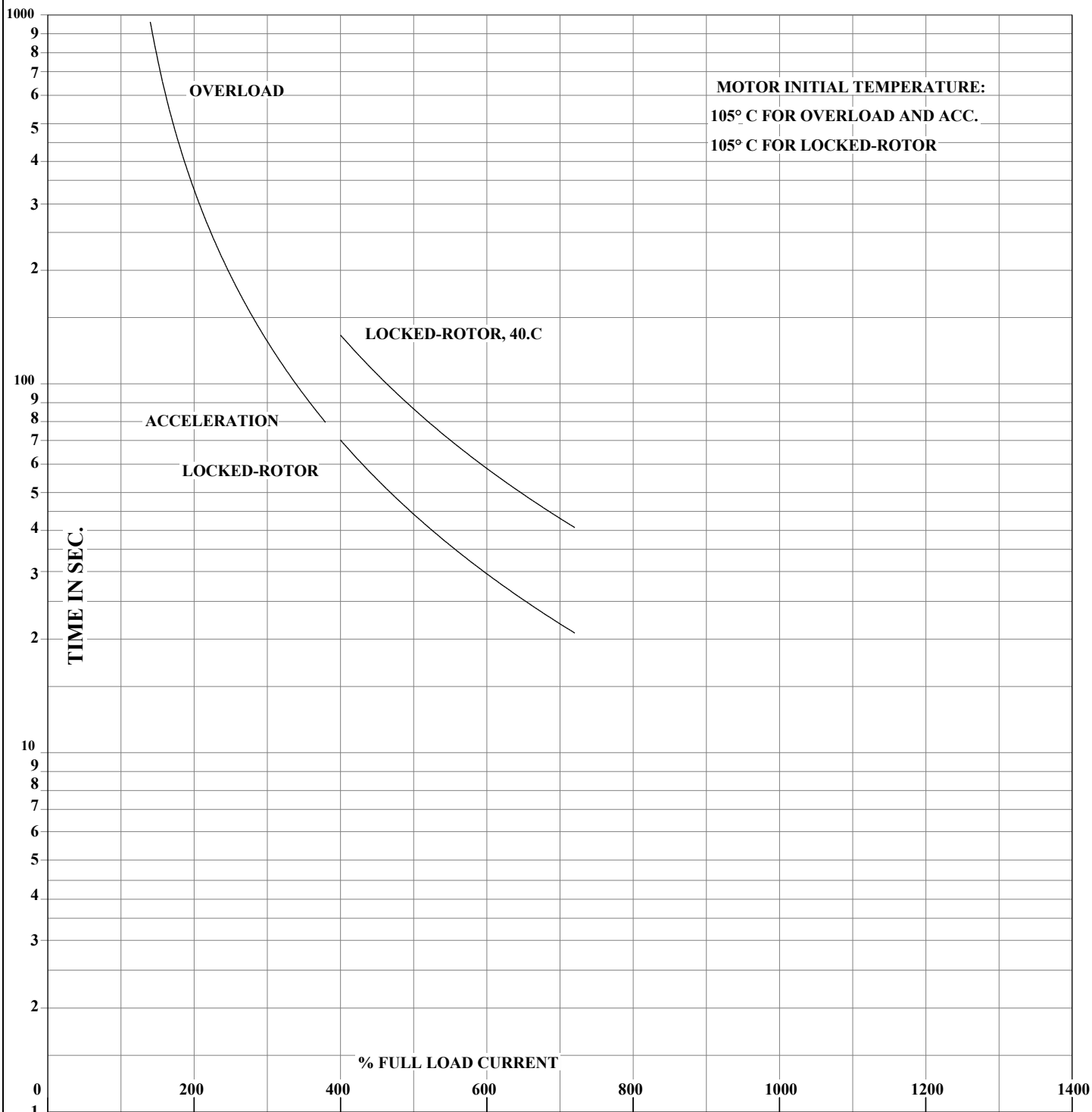
ENCLOSURE TEFC

STATOR RES. @ 25°C .0136

AMB °C / INSUL 40/F

E/S 401936

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
CALCULATED DATA XE MOTOR NEMA NOM EFF 95.8 PCT

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

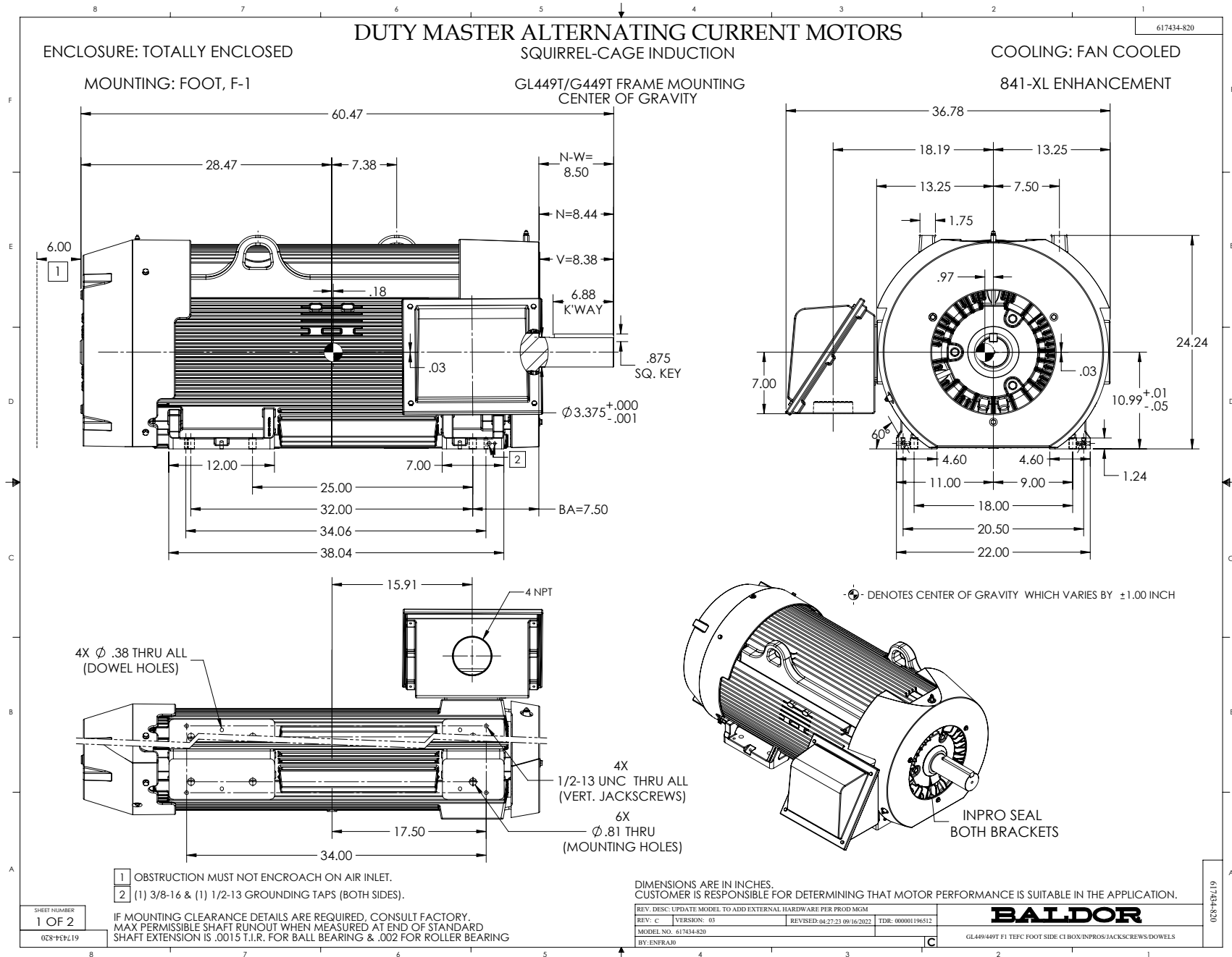


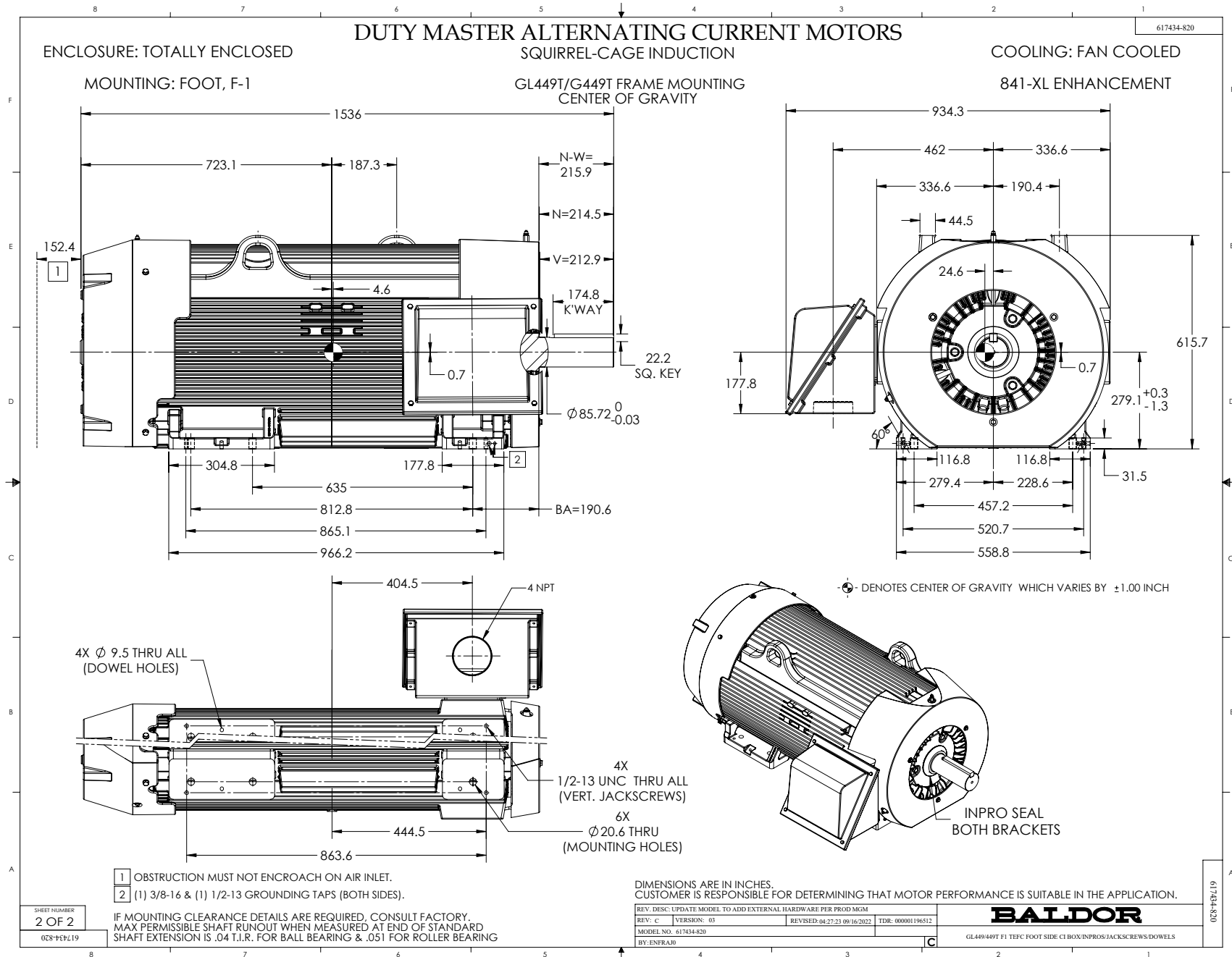
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AC MOTOR
PERFORMANCE
DATA

A44WG4970-R009

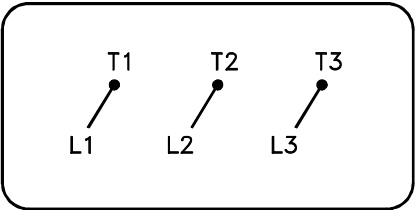
ISSUE DATE 12/17/19





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