

ABB BALDOR RELIANCE III

Customer information packet

ECP84408TR-4

250HP, 1785RPM, 3PH, 60HZ, 449T, A44160M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	C UR US CCSA US CCSAUSEEV CURUS
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	274.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	274.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5175
Layout	617434-667
Eff. date	07-14-2025
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	05-21-2025

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	Other
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	79.3 a
Number of Poles	4
Overall Length	53.49 IN
Power Factor	88
Pulley End Bearing Type	Roller
Pulley Face Code	C-Face
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	ECP84408TR-4			SPEC NO.		A44-0002-5175								
HP	250	AMPS		274	VOLTS			460	DESIGN		B			
FRAME SIZE	449T	RPM		1785	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			88		NEMA-NOM-EFFICIENCY			96.2		
3/4 LOAD EFF.	96.5	IP	56	MAX CORR KVAR				38	GUARANTEED EFFICIENCY			95.4		
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										

000613007EX				
CAT NO	ECP84408TR-4	SPEC NO.	A44-0002-5175	
NO. ROTOR BARS	58	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE		79.3
5 YEAR WARRANTY		WINDING RES @25 C	.0114	OHMS
MFG. DATE		SER.NO		

NP2496L	
MOBIL SHC -220 GREASE	

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP84408TR-4 - 250HP, 1785RPM, 3PH, 60HZ, 449T, A44160M, TEFC						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			449T			250			P			3/60			1785			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
274			CONT			40/F			1.15			B			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
445175			418143052ZE			---			---			.0114								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			79.3			1800			4.00			0					
1/4			62.5			103			1796			60.2			94.3					
2/4			125			151			1793			80.6			96.3					
3/4			187			210			1789			86.6			96.5					
4/4			250			274			1785			88.4			96.4					
5/4			313			342			1781			89.1			96.0					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			163			1195			1825					
PULL UP						1200			134			988			1536					
BREAKDOWN						1726			276			2029			952					
FULL LOAD						1785			100			735			274					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 96.2 PCT.																				
						DRAWN BY: <u>G. R. WEBB</u> CHECKED BY: <u>C. E. JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>07/17/15</u>						AC MOTOR PERFORMANCE DATA			A44WG5175-R002 DATE ISSUED 04/08/26					

FRAME 449T

RPM 1785

S.F. 1.15

ROTOR 4181430S2ZE

HP 250

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 274

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

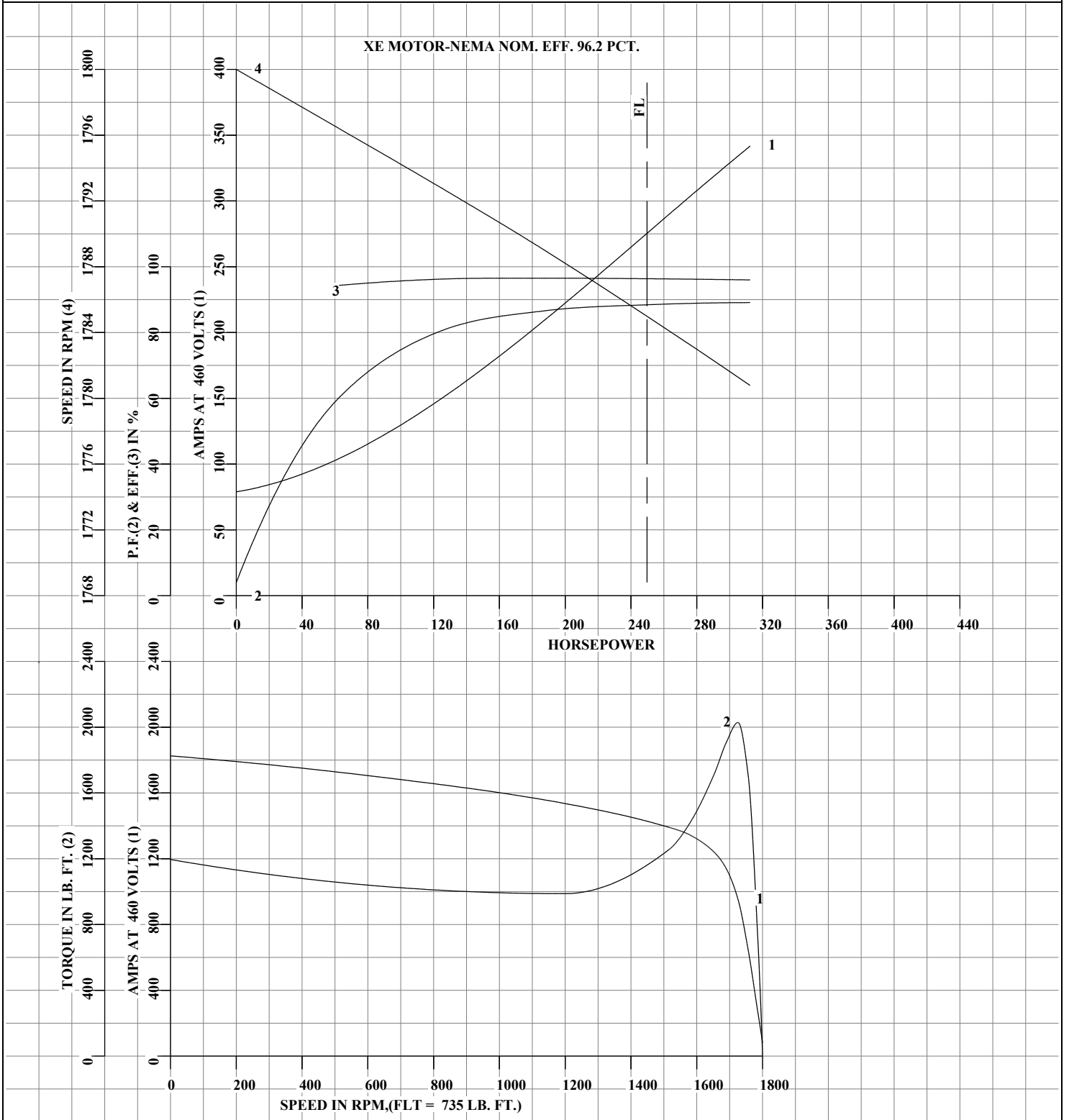
ENCLOSURE TEFC

STATOR RES. @ 25°C .0114

AMB °C / INSUL 40/F

E/S 445175

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>G. R. WEBB</u> CHECKED BY: <u>C. E. JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>07/17/15</u>	AC MOTOR PERFORMANCE DATA	A44WG5175-R002 ISSUE DATE 04/08/26
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FRAME 449T

RPM 1785

S.F. 1.15

ROTOR 418143052ZE

HP 250

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 274

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

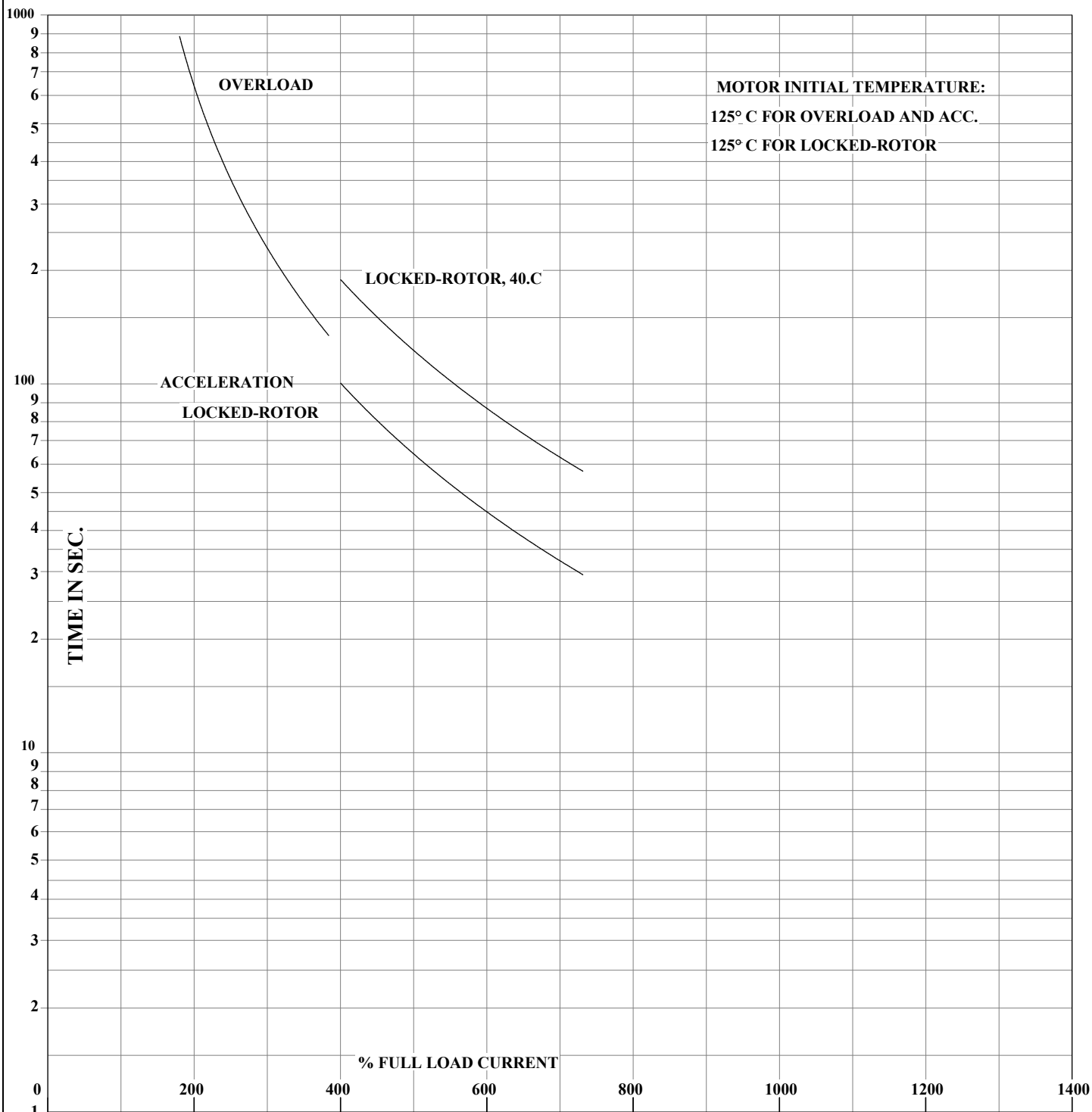
ENCLOSURE TEFC

STATOR RES. @ 25°C .0114

AMB °C / INSUL 40/F

E/S 445175

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

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

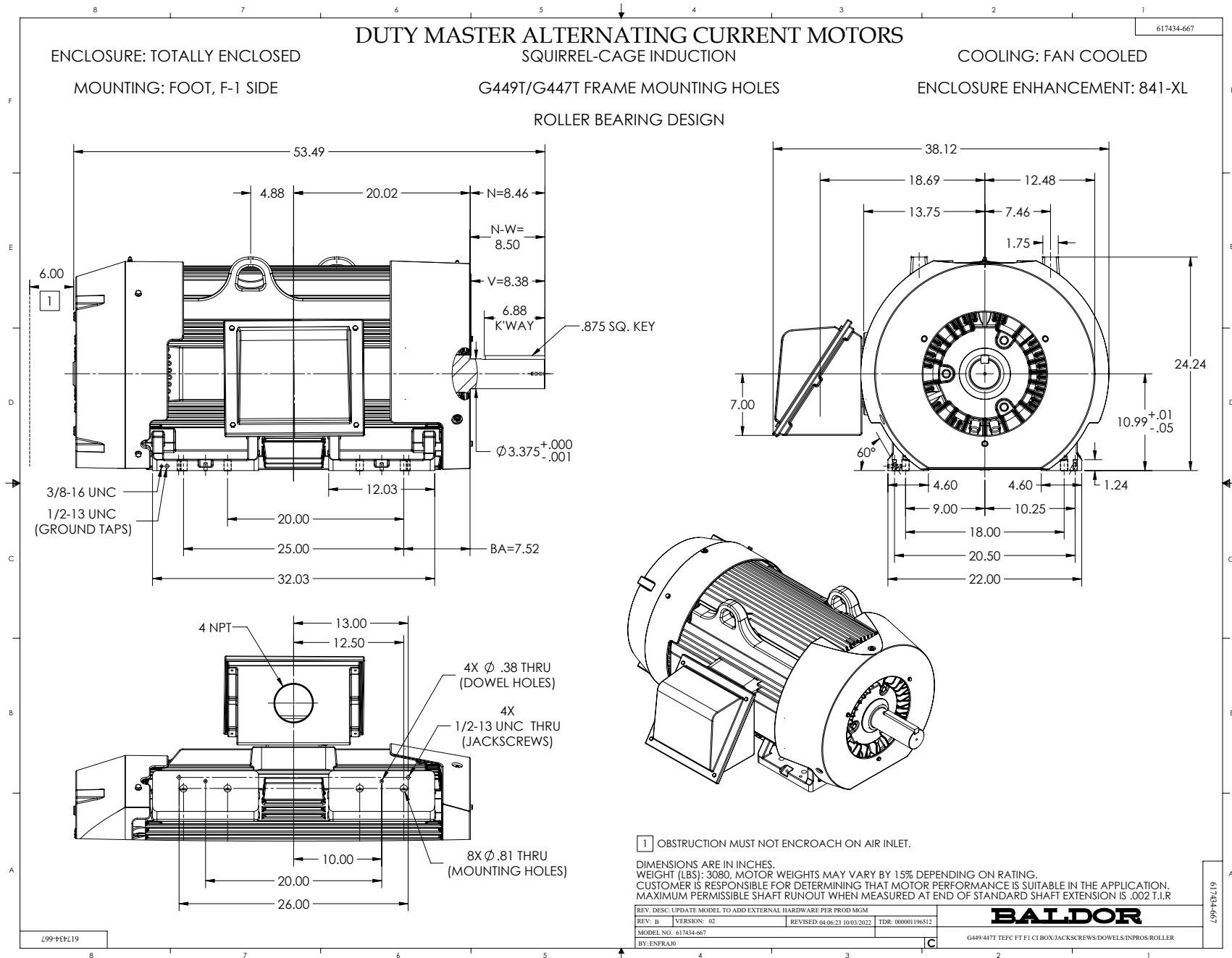


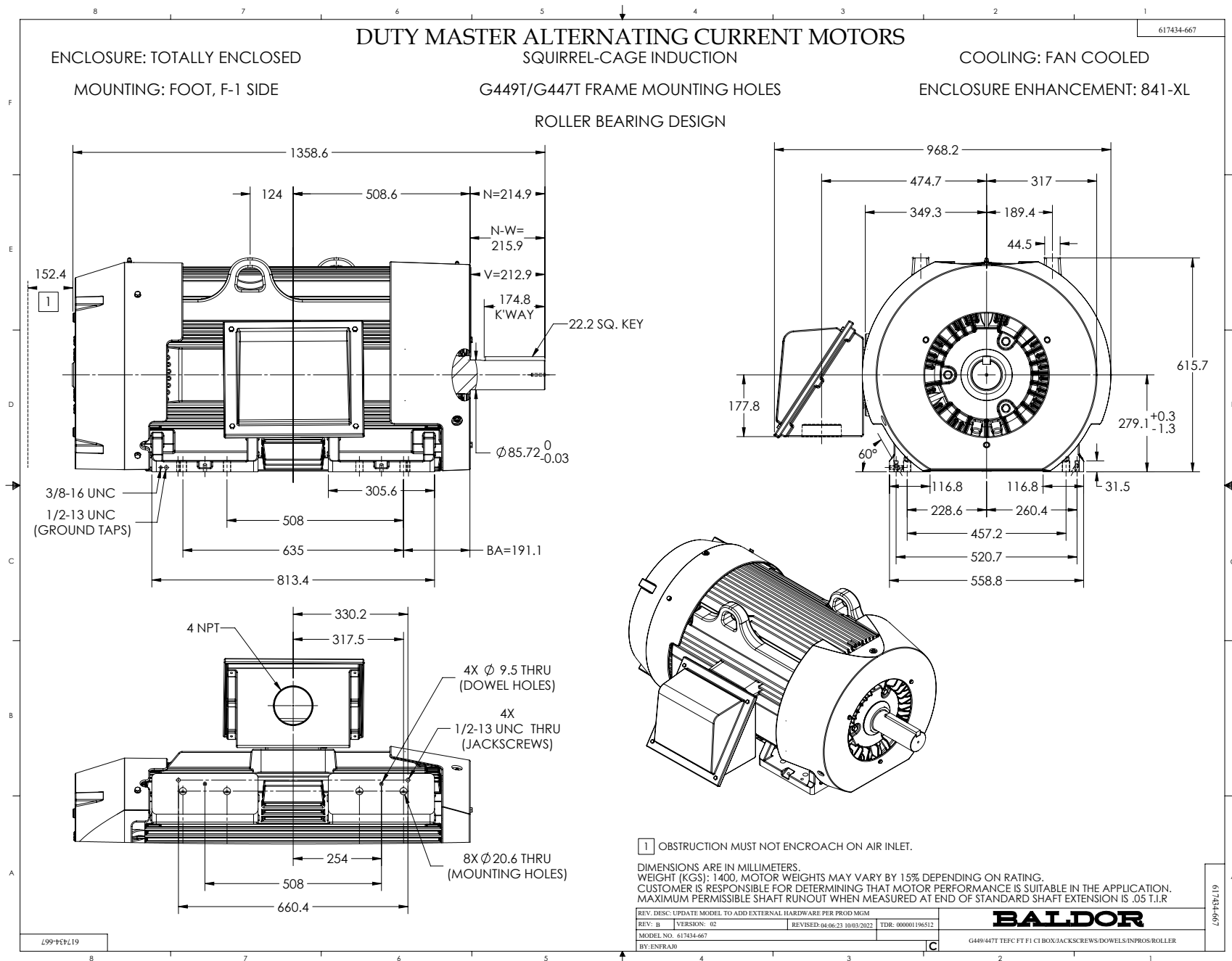
DRAWN BY: G. R. WEBB
CHECKED BY: C. E. JAMISON
APPROVED BY: W. L. SMITH
DATE: 07/17/15

AC MOTOR
PERFORMANCE
DATA

A44WG5175-R002

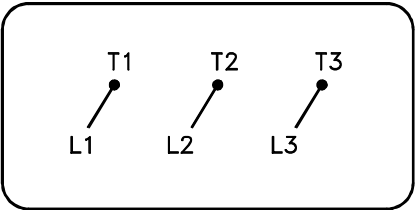
ISSUE DATE 04/08/26





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