

ABB BALDOR RELIANCE III

Customer information packet

ECP84408T-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	Polyrex EM (-20F +300F)
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	617434-665
Eff. date	07-14-2025
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	05-20-2025

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	None
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	79.3 a
Number of Poles	4
Overall Length	53.47 IN
Power Factor	88
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	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	ECP84408T-4			SPEC NO.		A44-0001-5175							
HP	250	AMPS		274		VOLTS		460		DESIGN		B	
FRAME SIZE	449T	RPM		1785		HZ		60	AMB		40	SF 1.15	
D.E. BRG.DATA	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			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	ECP84408T-4	SPEC NO.	A44-0001-5175		
NO. ROTOR BARS	58	GREASE TYPE	POLYREX EM		
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE		79.3	
5 YEAR WARRANTY		WINDING RES @25 C	.0114	OHMS	
MFG. DATE		SER.NO			

ECP84408T-4 - 250HP, 1785RPM, 3PH, 60HZ, 449T, A44160M, TEFC						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET 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 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

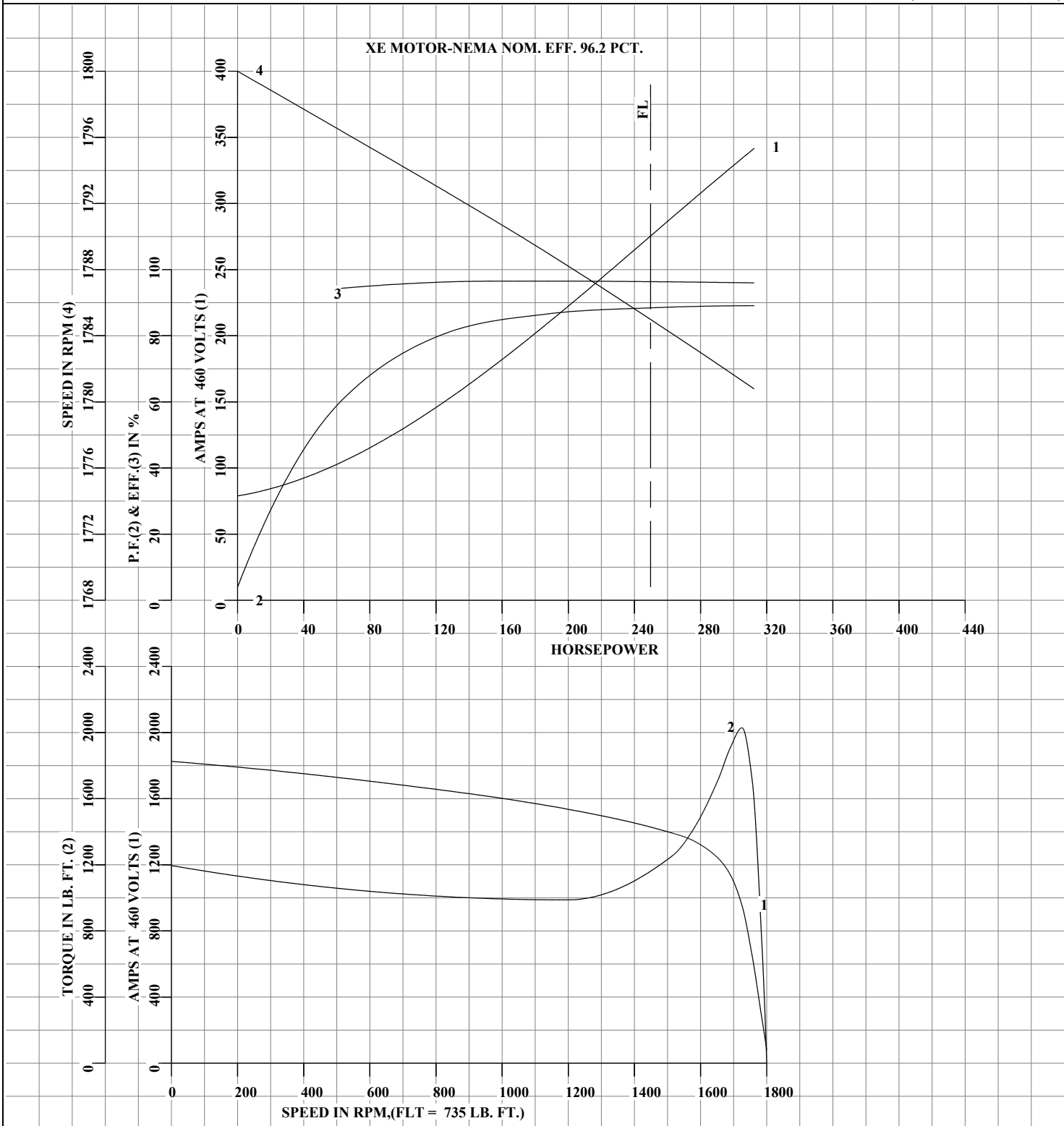
ENCLOSURE TEFC

STATOR RES. @ 25°C .0114

AMB °C / INSUL 40/F

E/S 445175

OHMS (BETWEEN LINES)



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

A44WG5175-R002

ISSUE DATE 04/08/26

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

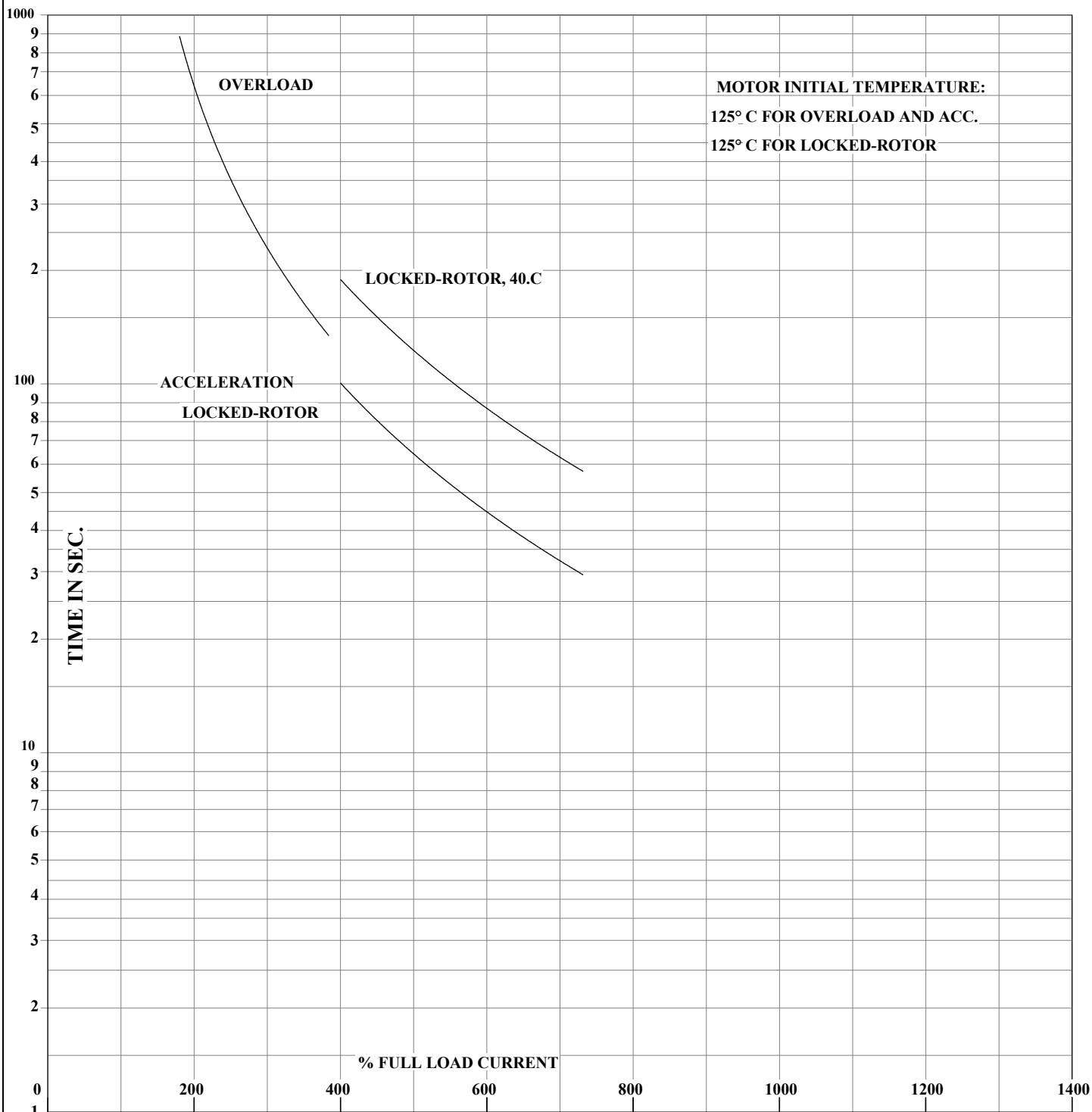
ENCLOSURE TEFC

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.

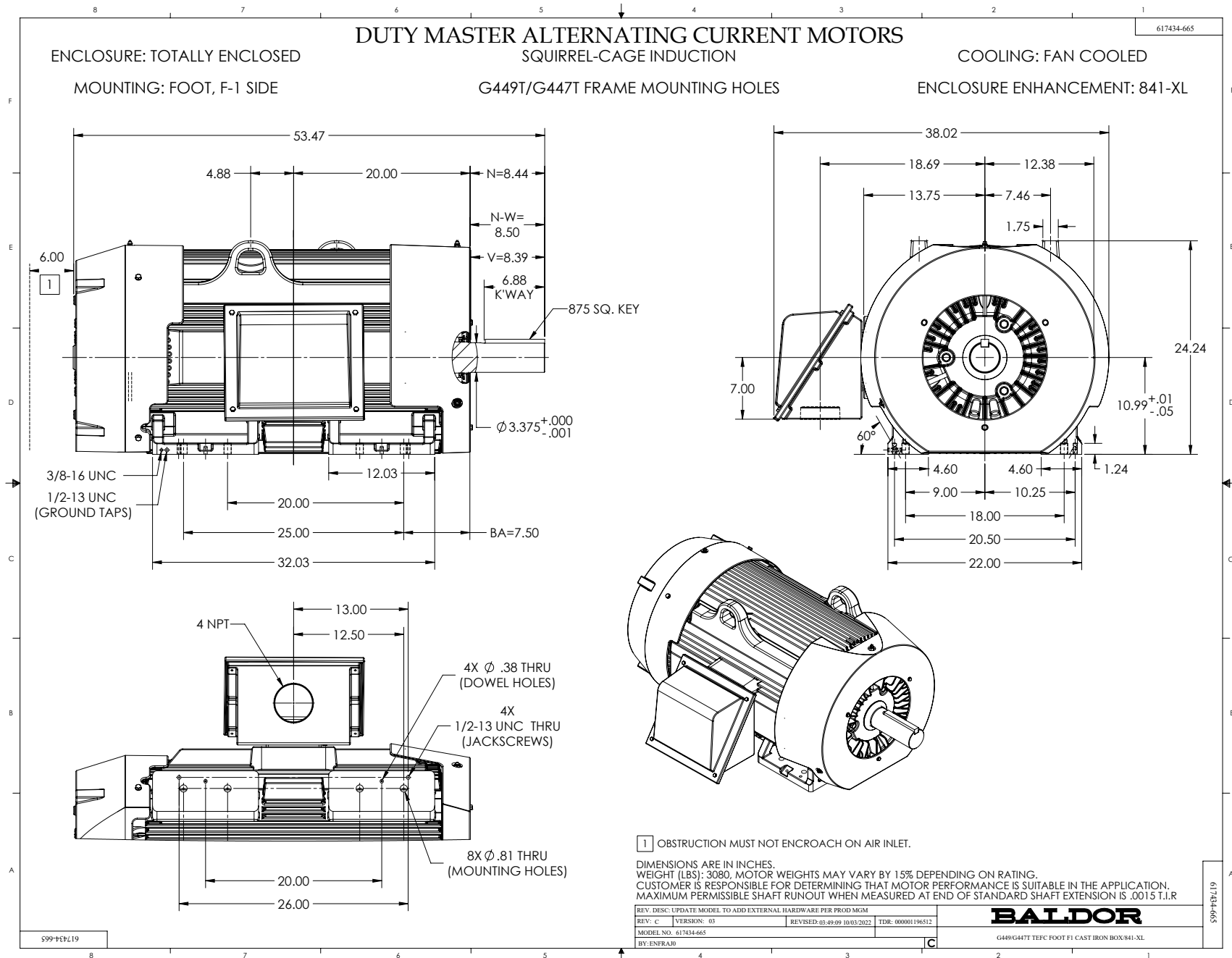


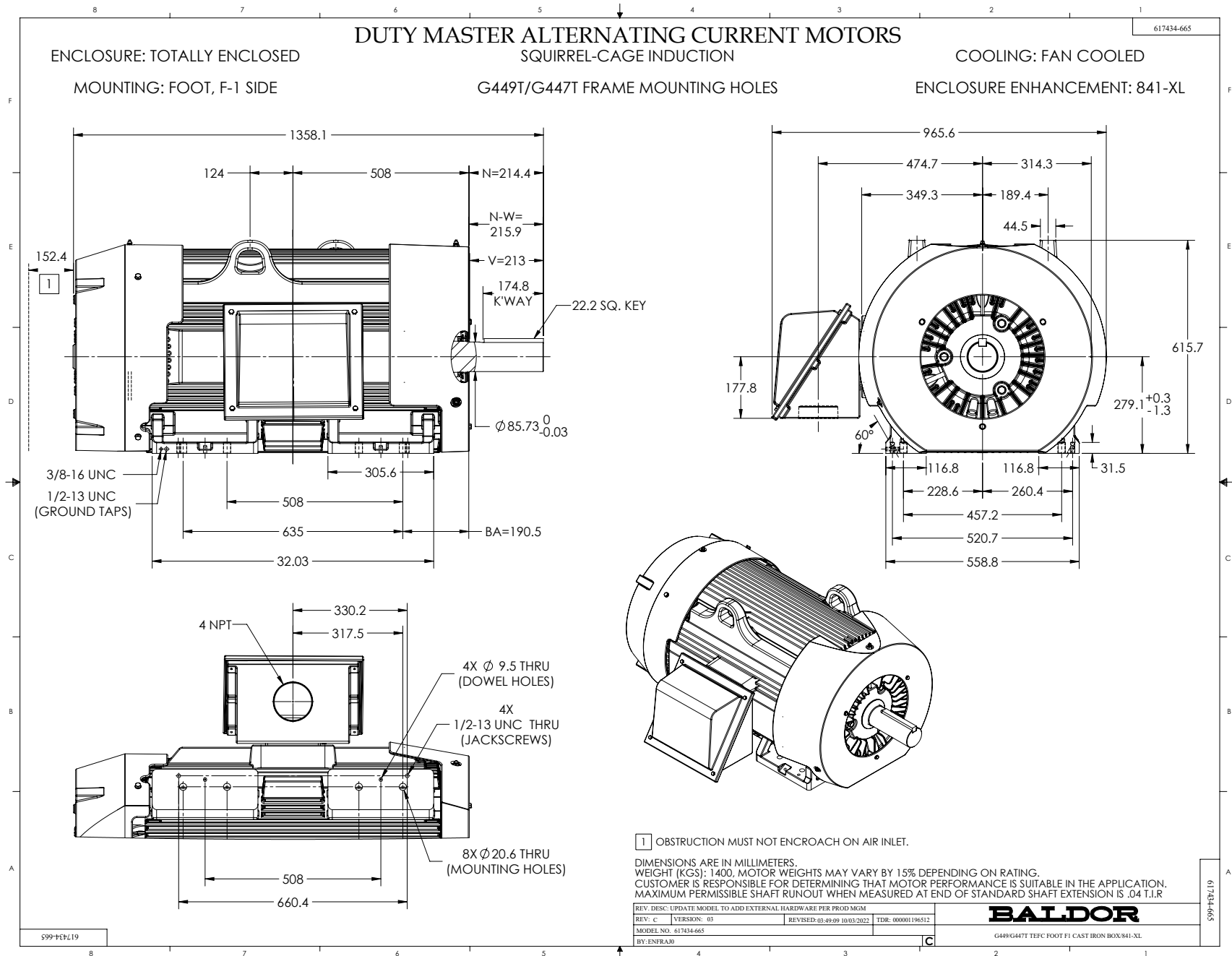
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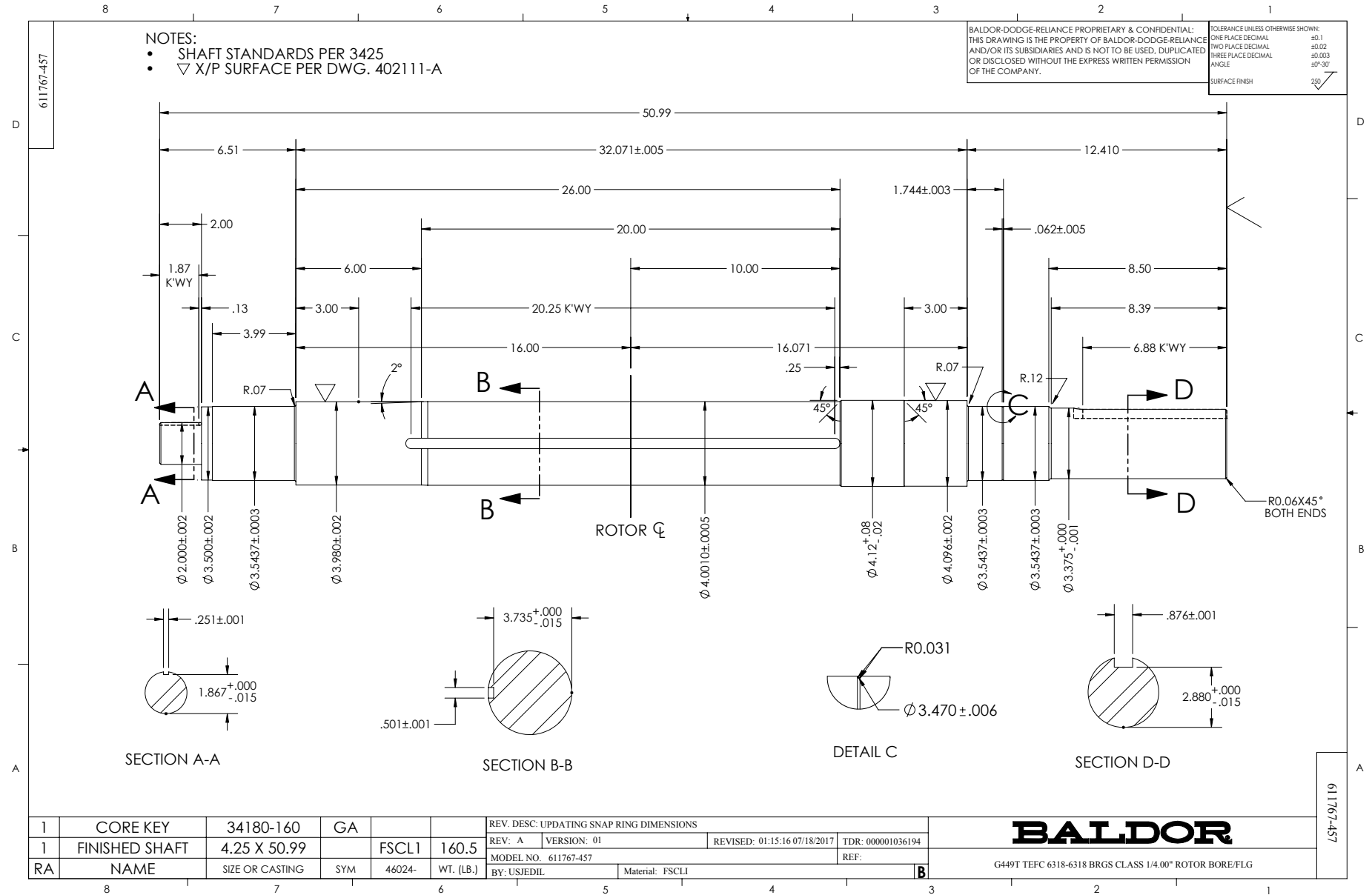
AC MOTOR
PERFORMANCE
DATA

A44WG5175-R002

ISSUE DATE 04/08/26

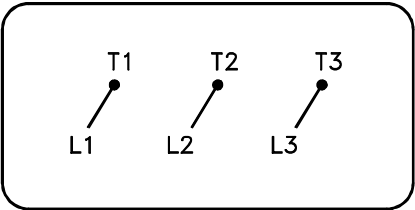






416820-036

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