

ABB BALDOR RELIANCE III

Customer information packet

ECP49404T-4

400HP, 1785RPM, 3PH, 60HZ, L449T, TEFC

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	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	Polyrex EM (-20F +300F)
Constant Torque Speed Range	30-60
Current @ Voltage	435.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	435.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 1 AWG

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5081
Layout	617423-352
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 (04 per group)
Proprietary	False
Created date	03-17-2014

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.21 IN
Power Factor	89
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	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	RTD Only

Nameplate

NP3238														
CAT NO	ECP49404T-4				SPEC NO.		P44G5919							
HP	400	AMPS	435		VOLTS		460		DESIGN		B			
FRAME	L 449T	RPM	1785	HZ	60	AMB	40	SF	1.15					
D.E. BRG.DATA	6222		O.D.E. BRG.DATA				6318		PH	3	DUTY	CONT	INSUL.CLASS	P
D.E. BRG.	110BC02J30X				TYPE	P	ENCL	TEFC	CODE	G				
O.D.E. BRG.	90BC03J30X				POWER FACTOR			89	NEMA NOM EFFICIENCY				96.2	
3/4 LOAD EFF.	96.8		MAX CORR KVAR			54.0		GUARANTEED EFFICIENCY				95.4		
TEMP CODE	T2C	TEMP =		230										
CHP HZ	60-90	CT HZ	30-60		VT HZ	0-60								
INVERTER-TEMP-CODE	T2C													
SER.NO.					MOTOR WEIGHT									

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							ECP49404T-4 - 400HP, 1785RPM, 3PH, 60HZ, L449T, TEFC																																		
							FRAME							HP							TYPE							PHASE/ HERTZ							RPM							VOLTS						
							L449T							400							P							3/60							1785							460						
AMPS							DUTY							AMB °C/ INSUL							S.F.							NEMA DESIGN							CODE LETTER							ENCLOSURE						
435							CONT							40/F							1.15							B							G							TEFC						
E/S							ROTOR							TEST S.O.							TEST DATE							STATOR RES. @25 °C OHMS (BETWEEN LINES)																				
---							418143041SE							---							---							.00741																				
PERFORMANCE																																																
LOAD							HP							AMPERES							RPM							% POWER FACTOR							% EFFICIENCY													
NO LOAD							0							98.0							1800							4.35							0													
1/4							100							142							1796							69.6							95.0													
2/4							200							225							1792							86.1							96.5													
3/4							300							326							1788							89.2							96.6													
4/4							400							435							1783							89.4							96.2													
5/4							500							547							1779							89.3							95.7													
SPEED TORQUE																																																
														RPM							TORQUE % FULL LOAD							TORQUE LB.-FT.							AMPERES													
LOCKED ROTOR														0							166							1953							2724													
PULL UP														700							161							1899							2510													
BREAKDOWN														1725							249							2938							1514													
FULL LOAD														1783							100							1178							435													
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																																																
TYPICAL DATA XE MOTOR																																																
														DRAWN BY: <u>C.E. JAMISON</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>02/17/14</u>														AC MOTOR PERFORMANCE DATA							A44WG5081-R001 DATE ISSUED 02/17/14													

FRAME L449T

HP 400

TYPE P

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

RPM 1785

VOLTS 460

AMPS 435

DUTY CONT

AMB °C / INSUL 40/F

ECP4940AT-4-400HP, 1785RPM, 3PH, 60HZ, L449T, TEFC

S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S ---

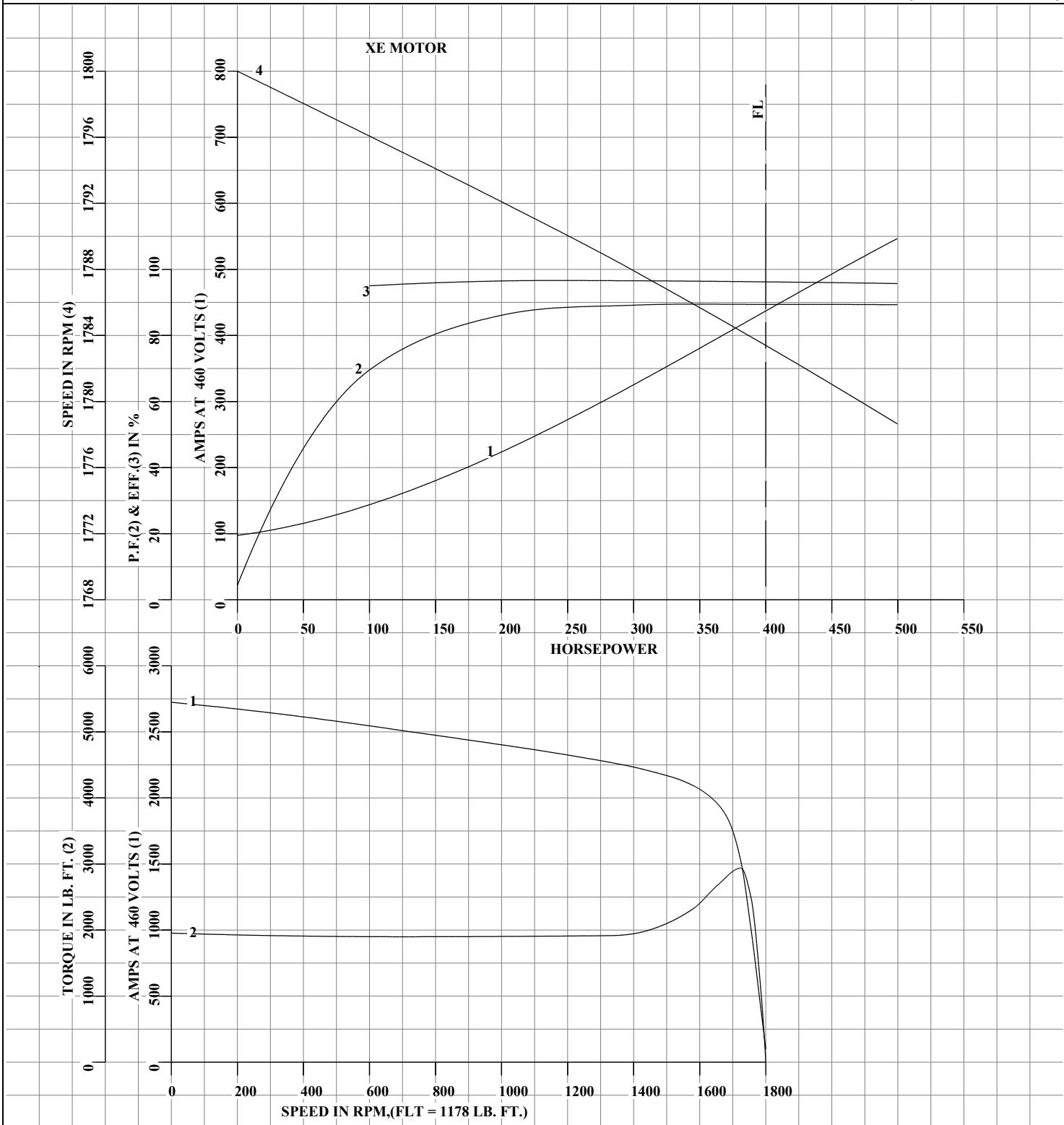
ROTOR 418F43041SE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25°C .00741

OHMS (BETWEEN LINES)



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

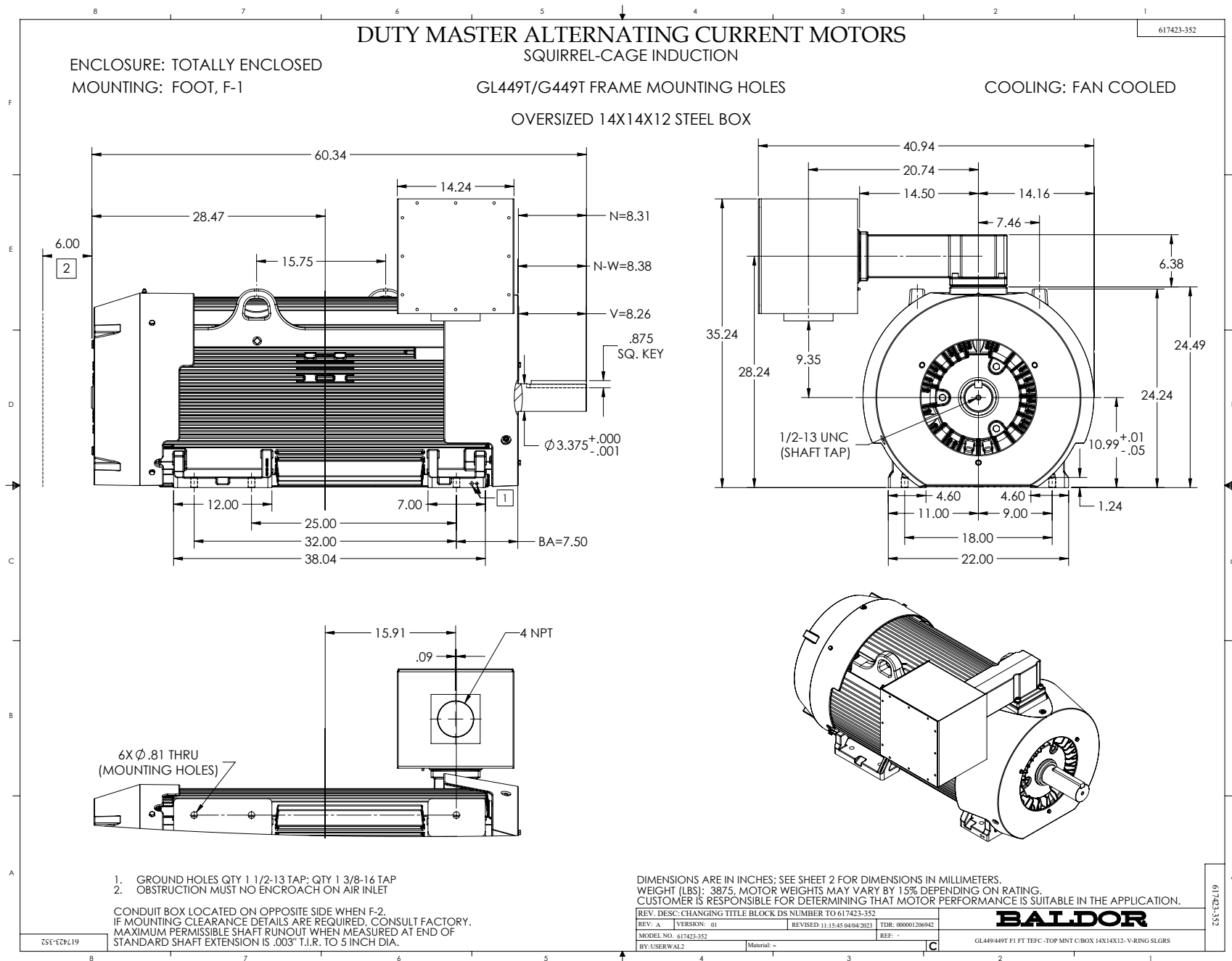


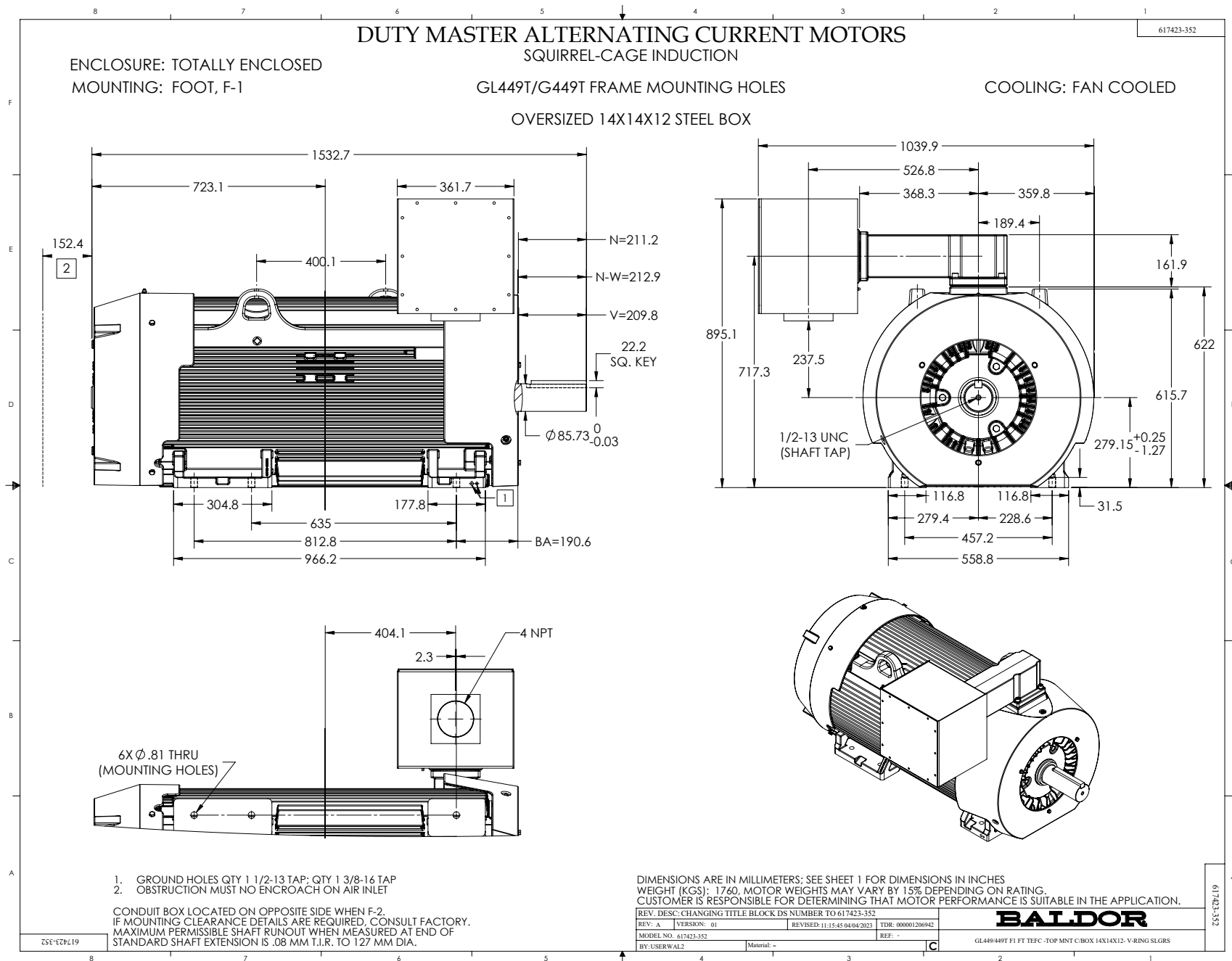
DRAWN BY: C.E. JAMISON
 CHECKED BY: W.L. SMITH
 APPROVED BY: W. L. SMITH
 DATE: 02/17/14

**AC MOTOR
PERFORMANCE
DATA**

A44WG5081-R001

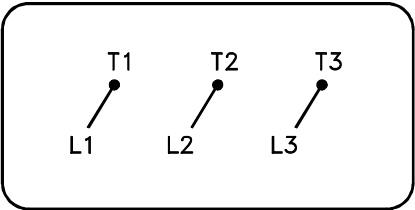
ISSUE DATE 02/17/14





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