

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	F
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

RPM 1785

S.F. 1.15

ROTOR 418F43041SE

HP 400

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 435

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

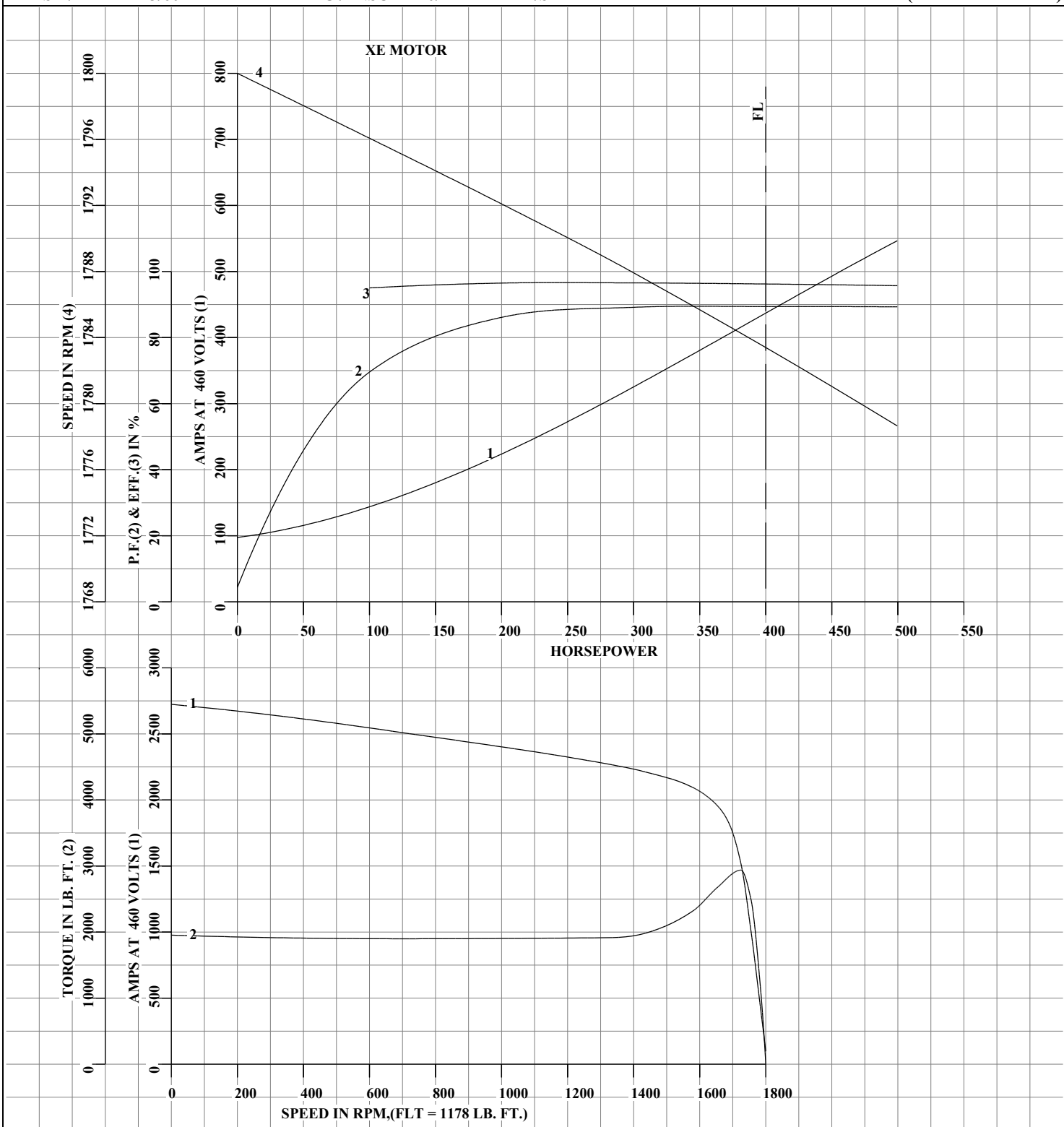
ENCLOSURE TEFC

STATOR RES. @ 25°C .00741

AMB °C / INSUL 40/F

E/S ---

OHMS (BETWEEN LINES)



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

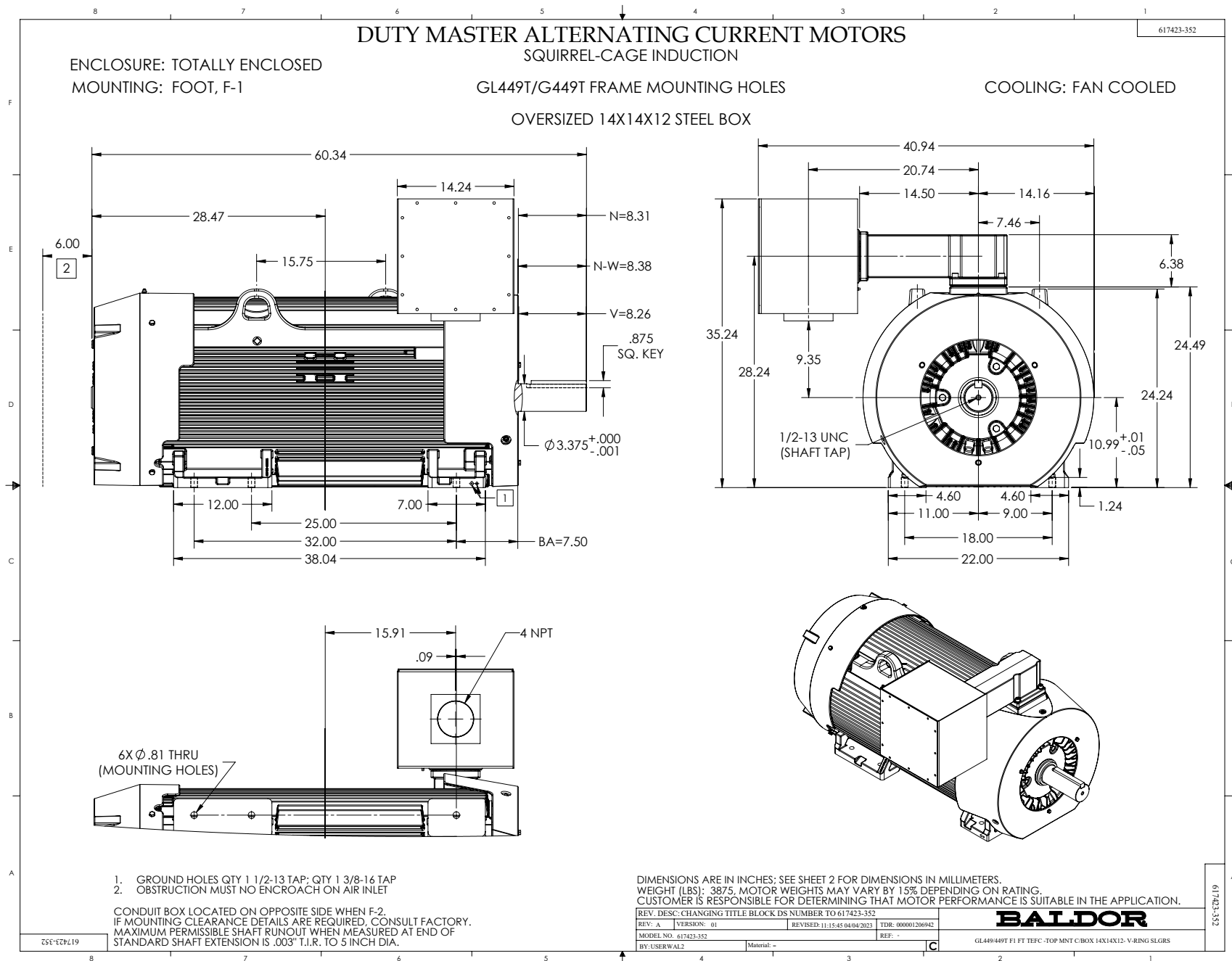


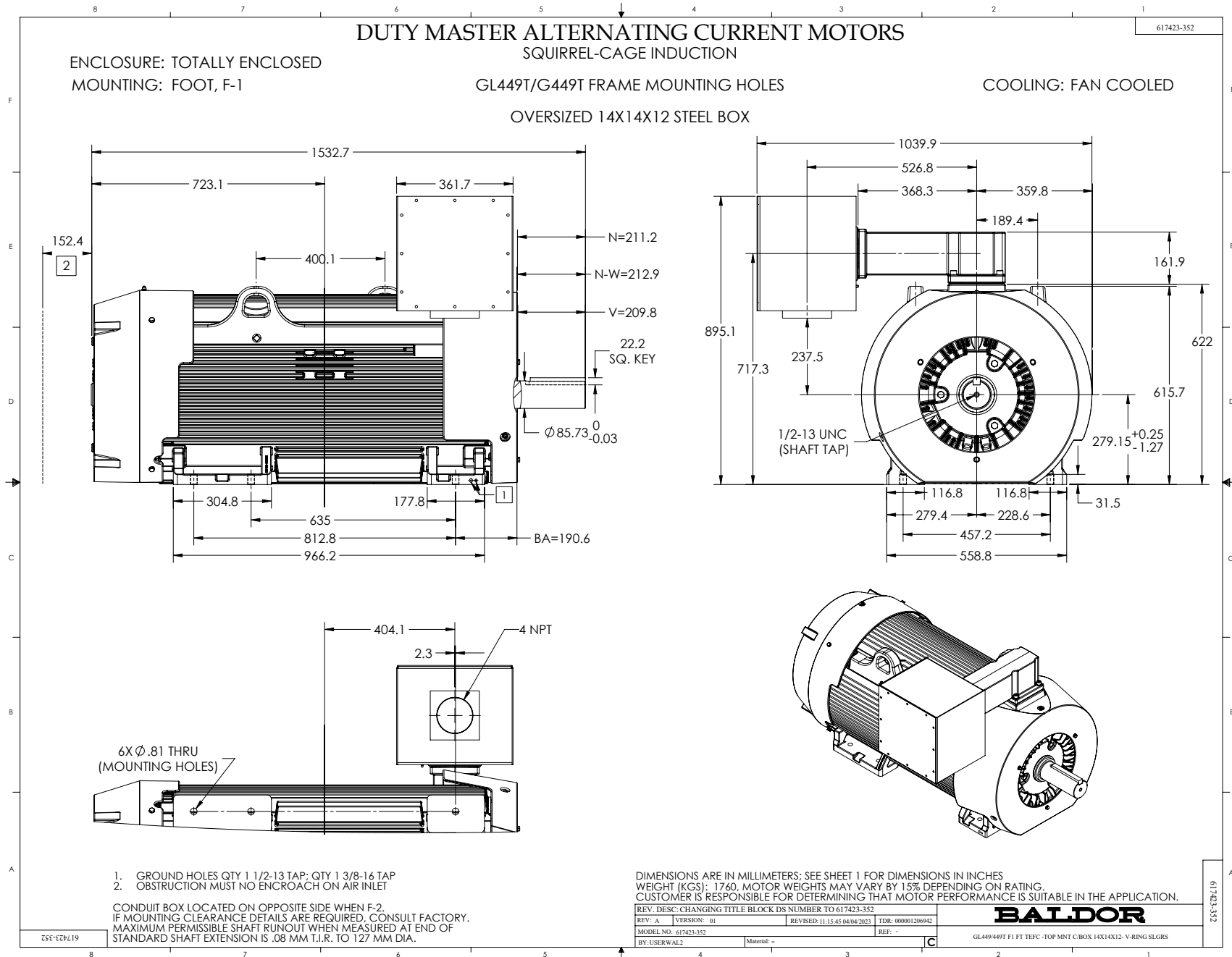
DRAWN BY: C.E. JAMISON
 CHECKED BY: W.L. SMITH
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 DATE: 02/17/14

**AC MOTOR
PERFORMANCE
DATA**

A44WG5081-R001

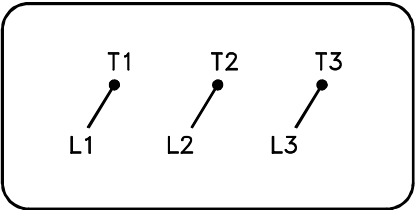
ISSUE DATE 02/17/14





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