

ABB BALDOR RELIANCE III

Customer information packet

ECP49258T-4

250HP, 900RPM, 3PH, 60HZ, L449T, TEFC, FOOT,
Class - CLI GP A,B,C,D
Division - Division II

Specifications

Enclosure	TEFC
Frame	L449T
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	900 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	288.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	288.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2235
Layout	617423-006
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	06-11-2014

Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44176M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	60.13 IN
Power Factor	85
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	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238																
CAT NO	ECP49258T-4				SPEC NO.		A44-5912-2235									
HP	250	AMPS		288		VOLTS		460		DESIGN		B				
FRAME	L449T	RPM		890		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				85		NEMA NOM EFFICIENCY				95	
3/4 LOAD EFF.	95.7		MAX CORR KVAR				59.5		GUARANTEED EFFICIENCY				94.1			
TEMP CODE	T2C		TEMP =		230											
CHP HZ	60-90		CT HZ		30-60		VT HZ		6-60							
INVERTER-TEMP-CODE	T2B															
SER.NO.					MOTOR WEIGHT											

FRAME L449T

RPM 890

VOLTS 460

NEMA DESIGN B

TEST S.O. ---

HP 250

AMPS 288

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

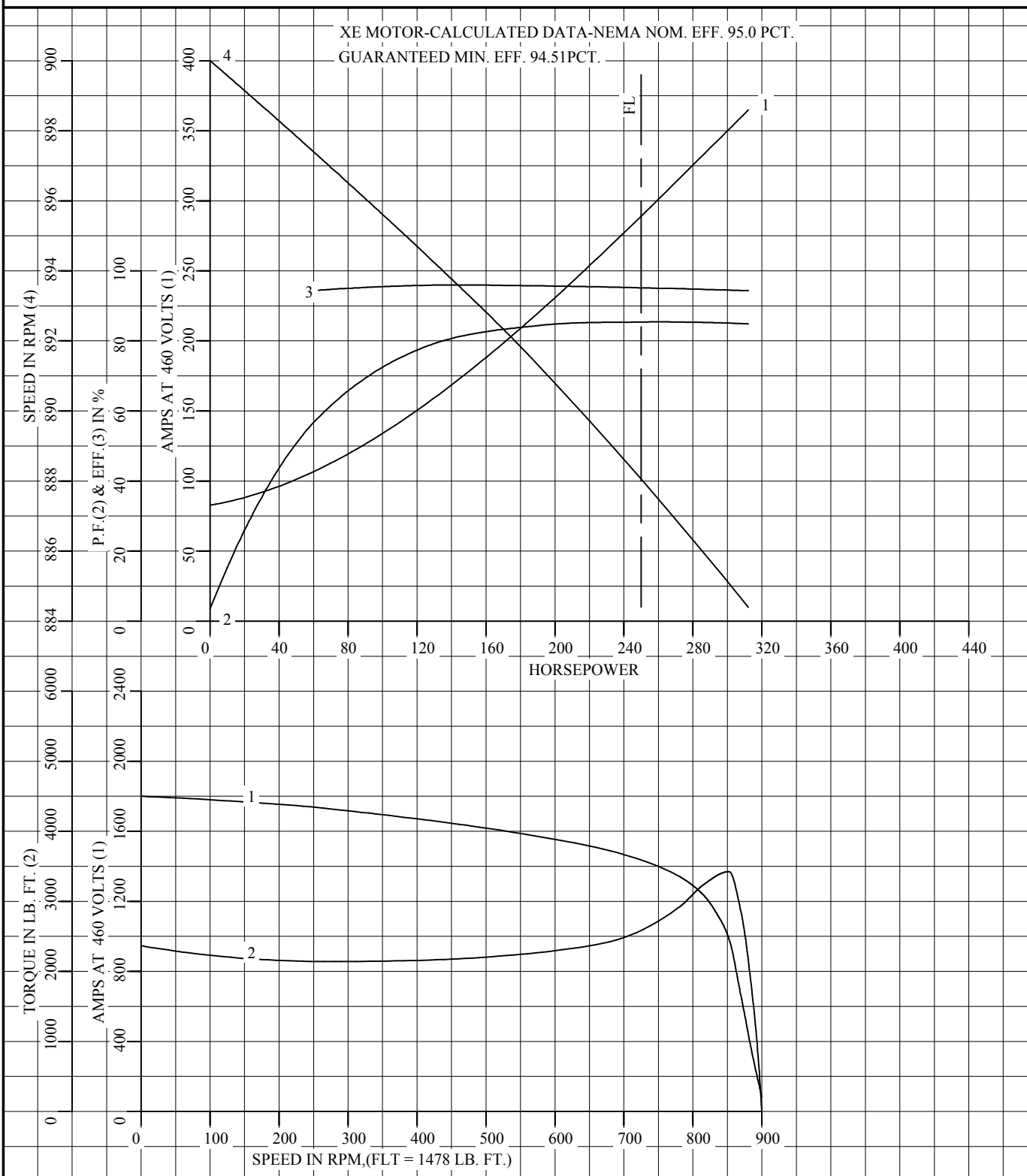
STATOR RES. @ 25 °C .0193

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 401727

OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 08/12/13

**A-C MOTOR
PERFORMANCE
CURVES** A44WG2235-R005
ISSUE DATE 08/12/13

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	250	P	3/60	890	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
288	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
401727	418143-87-EE	---	---	.0193

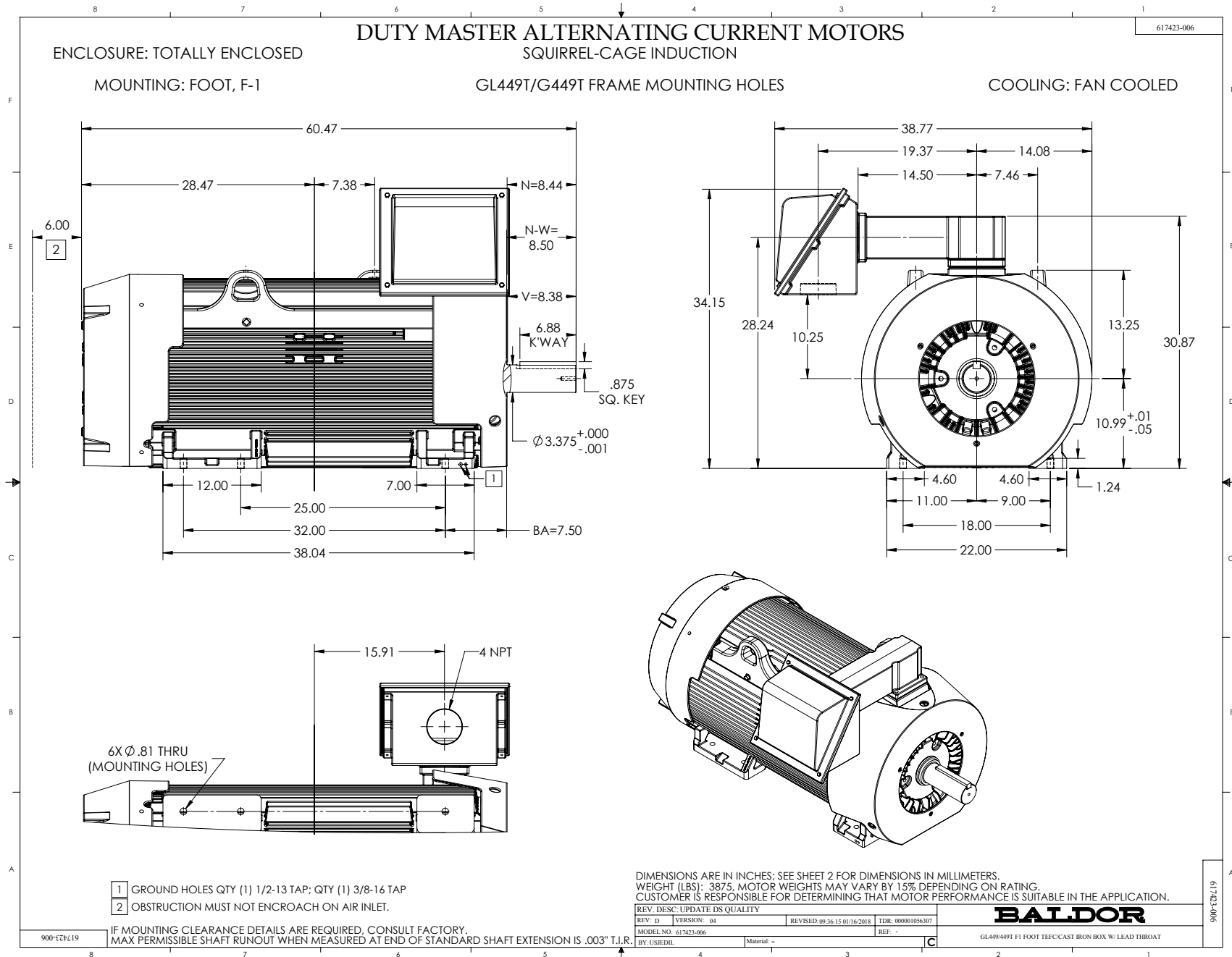
PERFORMANCE					
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	83.1	900	3.51	0
1/4	62.7	107	897	58.1	94.5
2/4	125	156	894	78.4	95.9
3/4	187	218	891	84.3	95.7
4/4	250	288	888	85.4	95.2
5/4	312	365	884	84.8	94.3

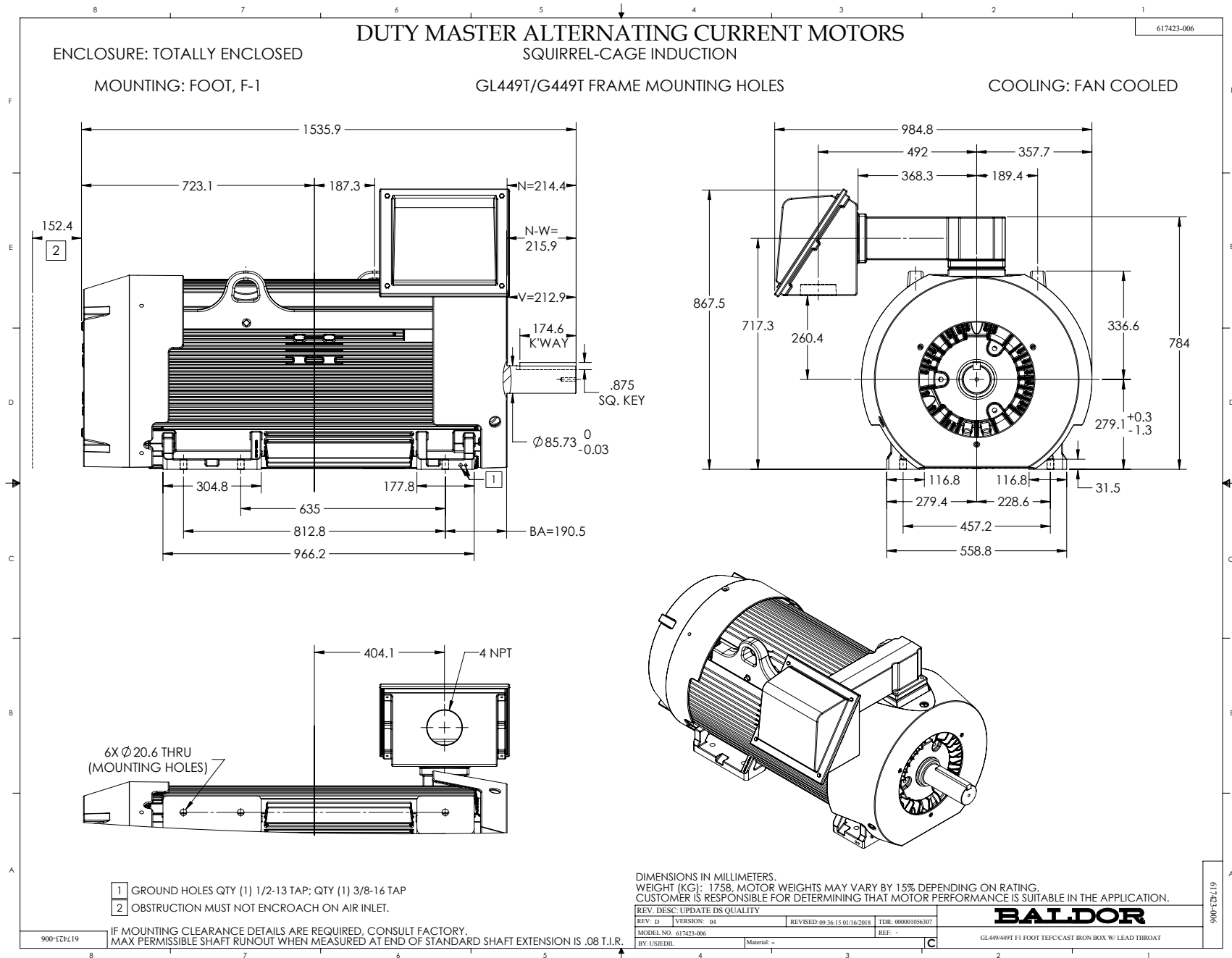
SPEED TORQUE				
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	160	2365	1800
PULL UP	270	145	2141	1730
BREAKDOWN	852	232	3425	985
FULL LOAD	888	100	1478	288

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

REMARKS: XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 95.0 PCT.
GUARANTEED MIN. EFF. 94.51PCT.

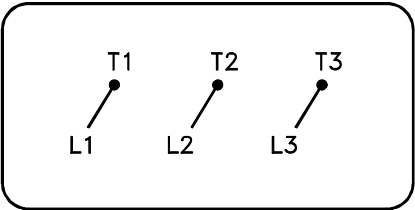
	DR. BY G. R. WEBB	A-C MOTOR PERFORMANCE DATA A44WG2235-R005 ISSUE DATE 08/12/13
	CK. BY W. L. SMITH	
	APP. BY W. L. SMITH	
	DATE 08/12/13	





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