

ABB BALDOR RELIANCE III

Customer information packet

ECP49306T-4

300HP, 1200RPM, 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	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	340.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	340.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4970
Layout	617423-006
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	06
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	01-06-2014

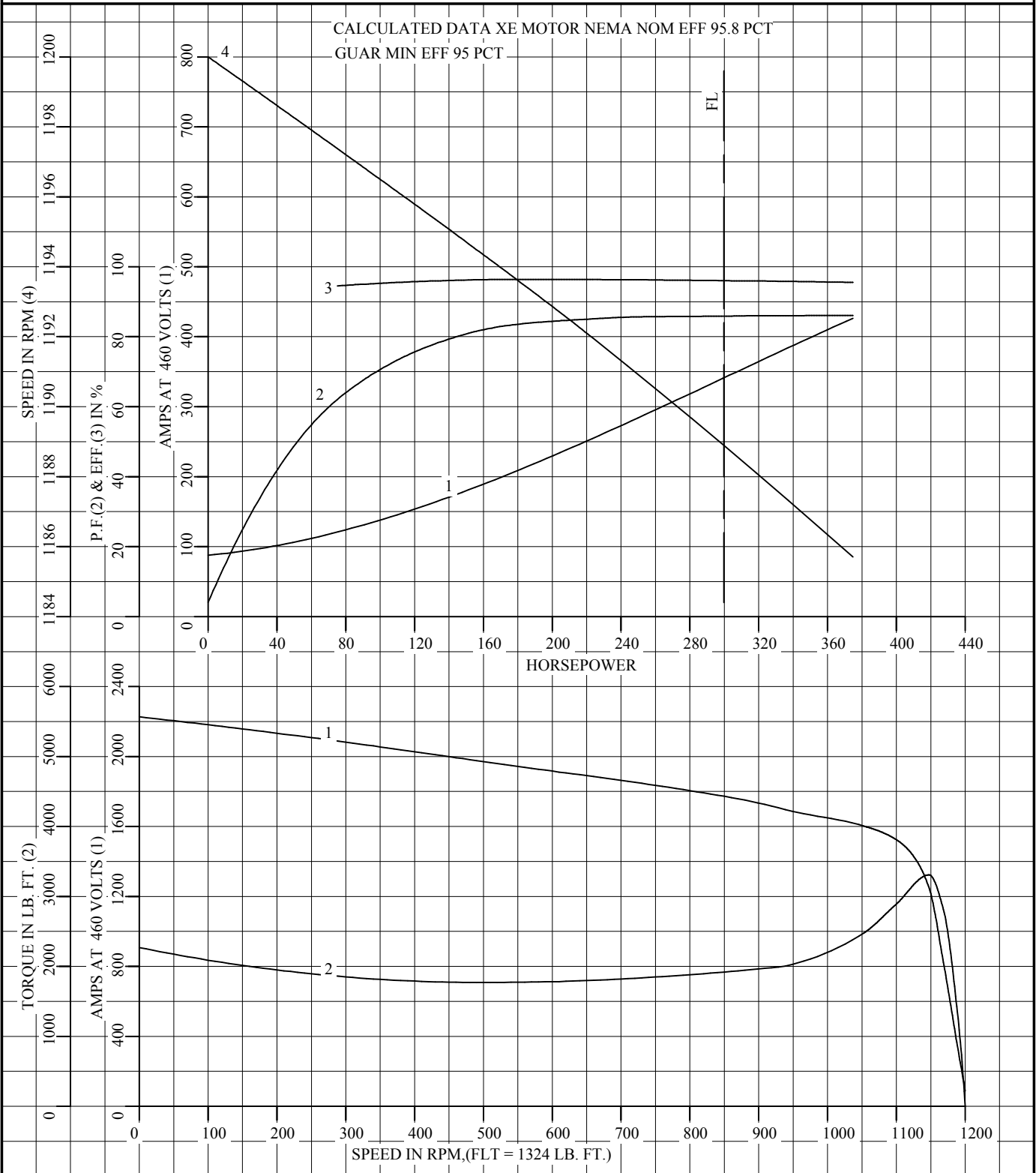
Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	60.13 IN
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238													
CAT NO	ECP49306T-4			SPEC NO.		A44-2587-4970							
HP	300	AMPS	340	VOLTS		460		DESIGN	B				
FRAME	L449T	RPM	1190	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			86	NEMA NOM EFFICIENCY			95.8		
3/4 LOAD EFF.	96.1	MAX CORR KVAR			61.0		GUARANTEED EFFICIENCY			95			
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									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	300	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
340	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
401936	418143-087-SE	---	---	.0136		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	87.9	1200	4.08	0	
1/4	75.1	120	1197	62.1	94.5	
2/4	150	181	1195	80.8	96.2	
3/4	225	257	1192	85.2	96.3	
4/4	300	340	1189	85.9	96.0	
5/4	375	427	1186	86.1	95.5	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	171	2269	2227	
PULL UP		500	134	1769	1971	
BREAKDOWN		1148	250	3309	1248	
FULL LOAD		1189	100	1324	340	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA CALCULATED DATA XE MOTOR NEMA NOM EFF 95.8 PCT GUAR MIN EFF 95 PCT						
		DR. BY CD		A-C MOTOR PERFORMANCE A44WG4970-R002 DATA ISSUE DATE 03/19/19		
		CK. BY T. KELATI				
		APP. BY T. KELATI				
		DATE 11/08/2013				

REL S.O.	RPM 1190	S.F. 1.15	ROTOR 418143-087-SE
FRAME L449T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 300	AMPS 340	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0136
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 401936	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 CD
CK. BY T. KELATI
APP. BY T. KELATI
DATE 11/08/2013

**A-C MOTOR
PERFORMANCE
CURVES**
A44WG4970-R002
ISSUE DATE 03/19/19

REL. S.O.

 FRAME **L449T**

 HP **300**

 TYPE **P**

 PHASE/HERTZ **3/60**

 RPM **1190**

 VOLTS **460**

 AMPS **340**

 DUTY **CONT**

 AMB °C/INSUL **40/F**

 S.F. **1.15**

 NEMA DESIGN **B**

 CODE LETTER **G**

 ENCLOSURE **TEFC**

 E/S **401936**

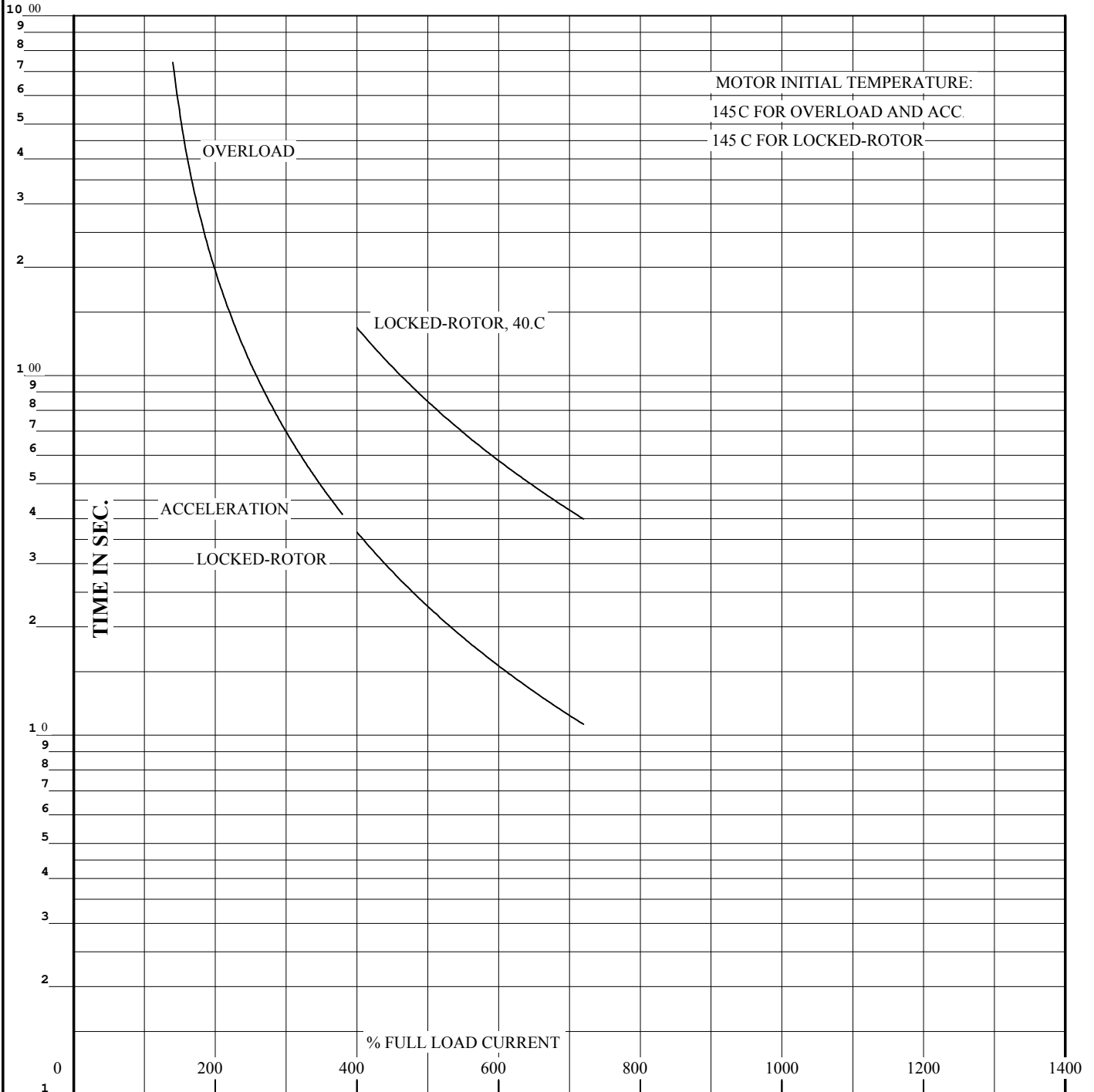
 ROTOR **418143-087-SE**

 TEST S.O. **TYPICAL DATA**

 TEST DATE **---**

 STATOR RES. @ 25 °C **.0136**

OHMS (BETWEEN LINES)



REMARKS:

THERMAL LIMIT CURVE

CALCULATED DATA XE MOTOR NEMA NOM EFF 95.8 PCT

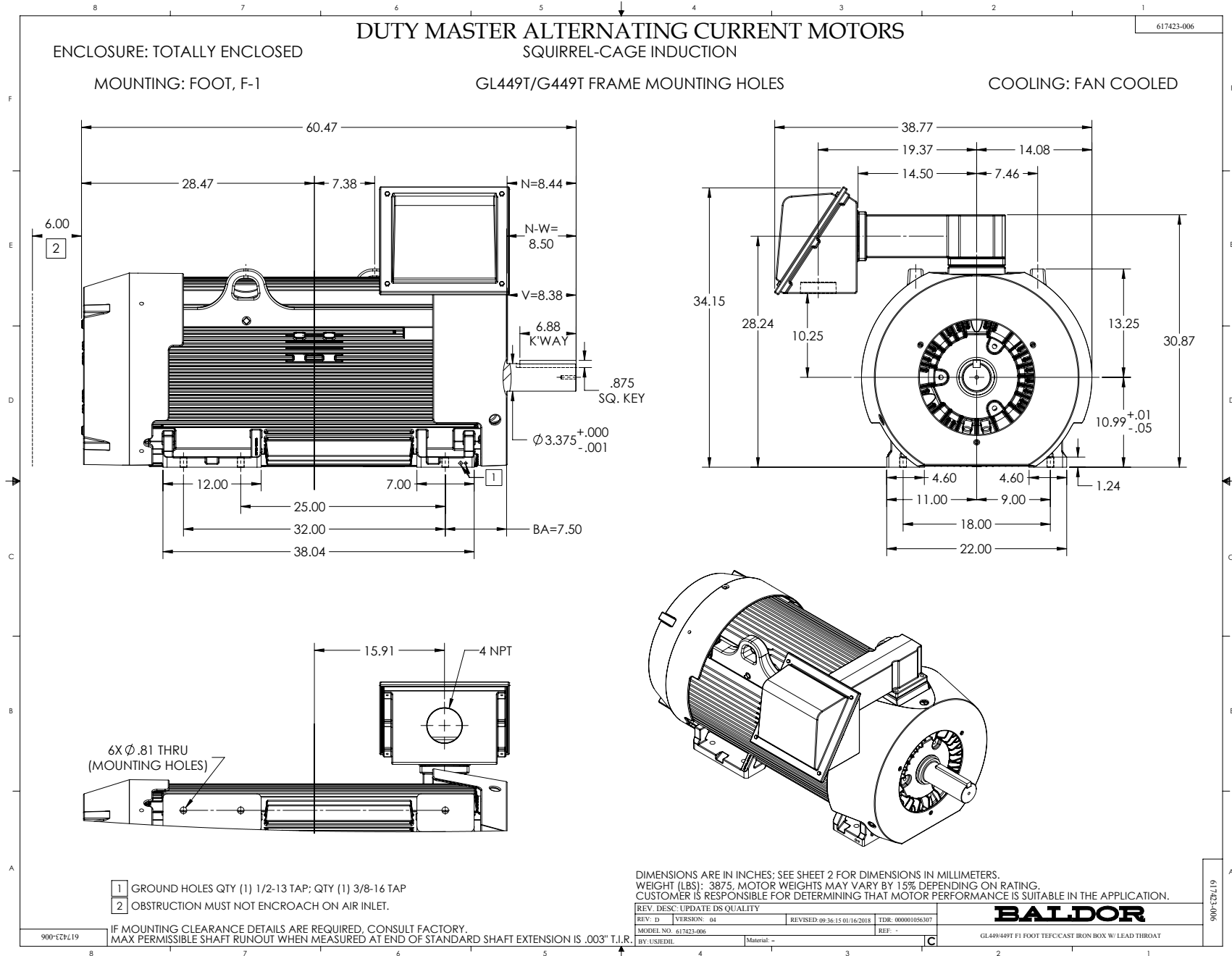
GUAR MIN EFF 95 PCT

 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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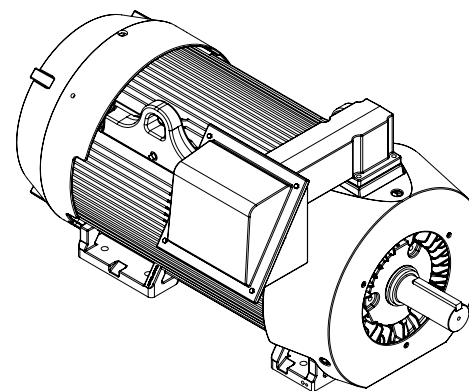
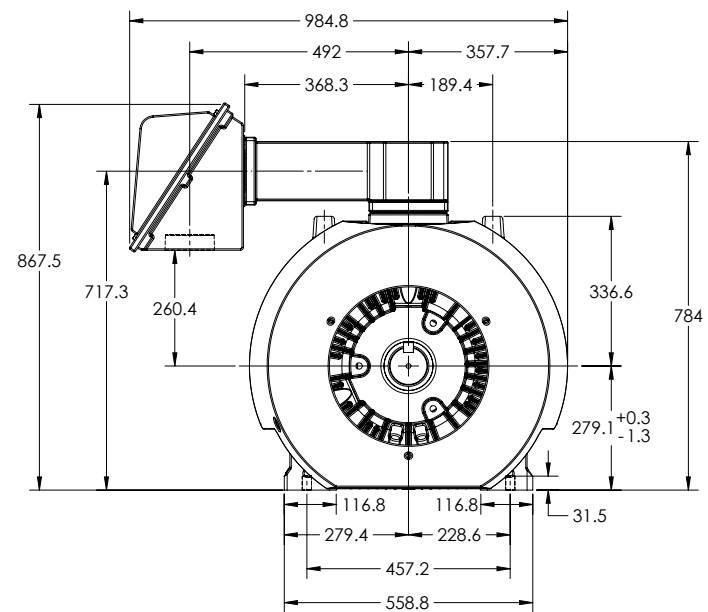
 DR. BY CD
 CK. BY T. KELATI
 APP. BY T. KELATI
 DATE 11/08/2013
**A-C MOTOR
PERFORMANCE
CURVES**
A44WG4970-R002

 ISSUE DATE 03/19/19 Page 7 of 10



617423-006

COOLING: FAN COOLED



- IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

DIMENSIONS IN MILLIMETERS.
WEIGHT (KG): 1758, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

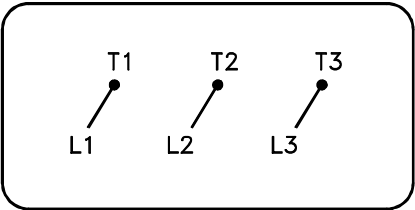
REV. DESC: UPDATE DS QUALITY			
REV: D	VERSION: 04	REVISED: 09-36:15 01/16/2018	TDR: 000001056307
MODEL NO. 617423-006			REF: -
BY: USJEDIL		Material: -	

BALDOR

GL449/449T F1 FOOT TEFC/CAST IRON BOX W/ LEAD THROAT

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