

ABB BALDOR RELIANCE III

Customer information packet

ECP49308T-4

300HP, 885RPM, 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	CL I 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	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	378.000 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	T2A
Heater Indicator	No Heater
High Voltage Full Load Amps	378.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2420
Layout	617423-006
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#2 (04 per group)
Proprietary	False
Created date	06-11-2014

Motor Lead Quantity/Wire Size	12 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	60.13 IN
Power Factor	78
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	885 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238													
CAT NO	ECP49308T-4			SPEC NO.		A44-5913-2420							
HP	300	AMPS	378	VOLTS		460	DESIGN		B				
FRAME	L449T	RPM	885	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			78	NEMA NOM EFFICIENCY			95		
3/4 LOAD EFF.	95.4	MAX CORR KVAR			99.0		GUARANTEED EFFICIENCY			94.1			
TEMP CODE	T2A	TEMP =	280										
CHP HZ	60-75	CT HZ	30-60		VT HZ	6-60							
INVERTER-TEMP-CODE	T2A												
SER.NO.				MOTOR WEIGHT									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS					
	449L	300	P	3/60	885	460					
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.					
378	CONT	40/F	1.00	B	G	TEFC					
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)							
401940	418143-87-TE	---	---	.0124							
PERFORMANCE											
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY						
NO LOAD	0	143	900	3.34	0						
1/4	75.1	172	897	44.0	92.9						
2/4	150	227	894	65.0	95.2						
3/4	225	298	891	74.0	95.4						
4/4	300	378	887	78.0	95.1						
5/4	375	463	883	80.2	94.5						
SPEED TORQUE											
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES							
LOCKED ROTOR	0	174	3090	2200							
PULL UP	180	135	2400	2124							
BREAKDOWN	853	229	4065	1146							
FULL LOAD	887	100	1776	378							
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE											
REMARKS: CALCULATED DATA											
		DR. BY P.B. GREENE		A-C MOTOR PERFORMANCE A44WG2420-R002 DATA ISSUE DATE 06/15/00							
		CK. BY K.W. KANOUFF									
		APP. BY K.W. KANOUFF									
		DATE 06/15/00									

FRAME 449L

RPM 885

NEMA DESIGN B

TEST S.O. ---

HP 300

VOLTS 460

CODE LETTER G

TEST DATE ---

TYPE P

AMPS 378

ENCLOSURE TEFC

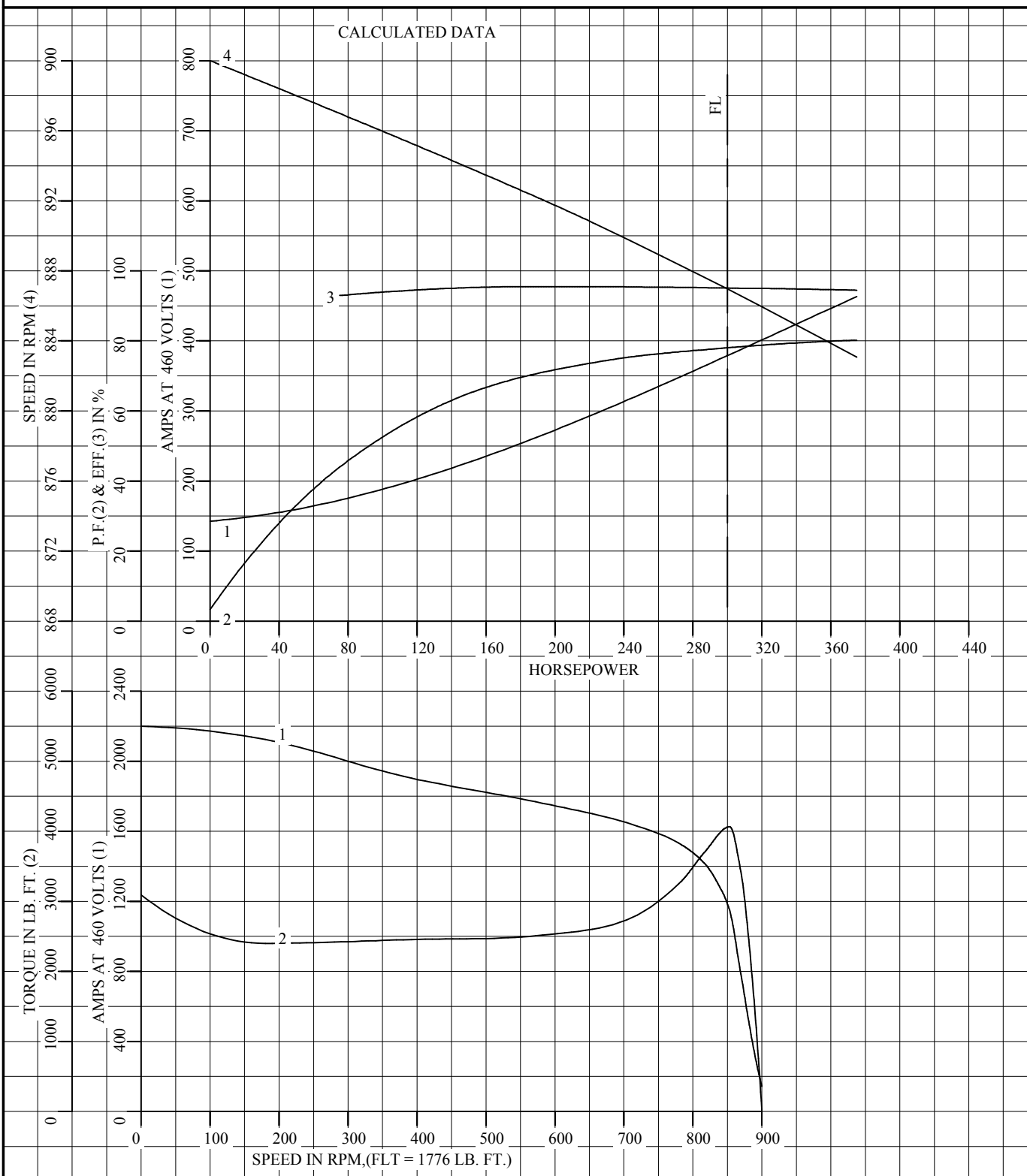
STATOR RES. @ 25 °C .0124

PHASE/HERTZ 3/60

DUTY CONT

AMB °C/INSUL 40/F

E/S 401940 OHMS (BETWEEN LINES)

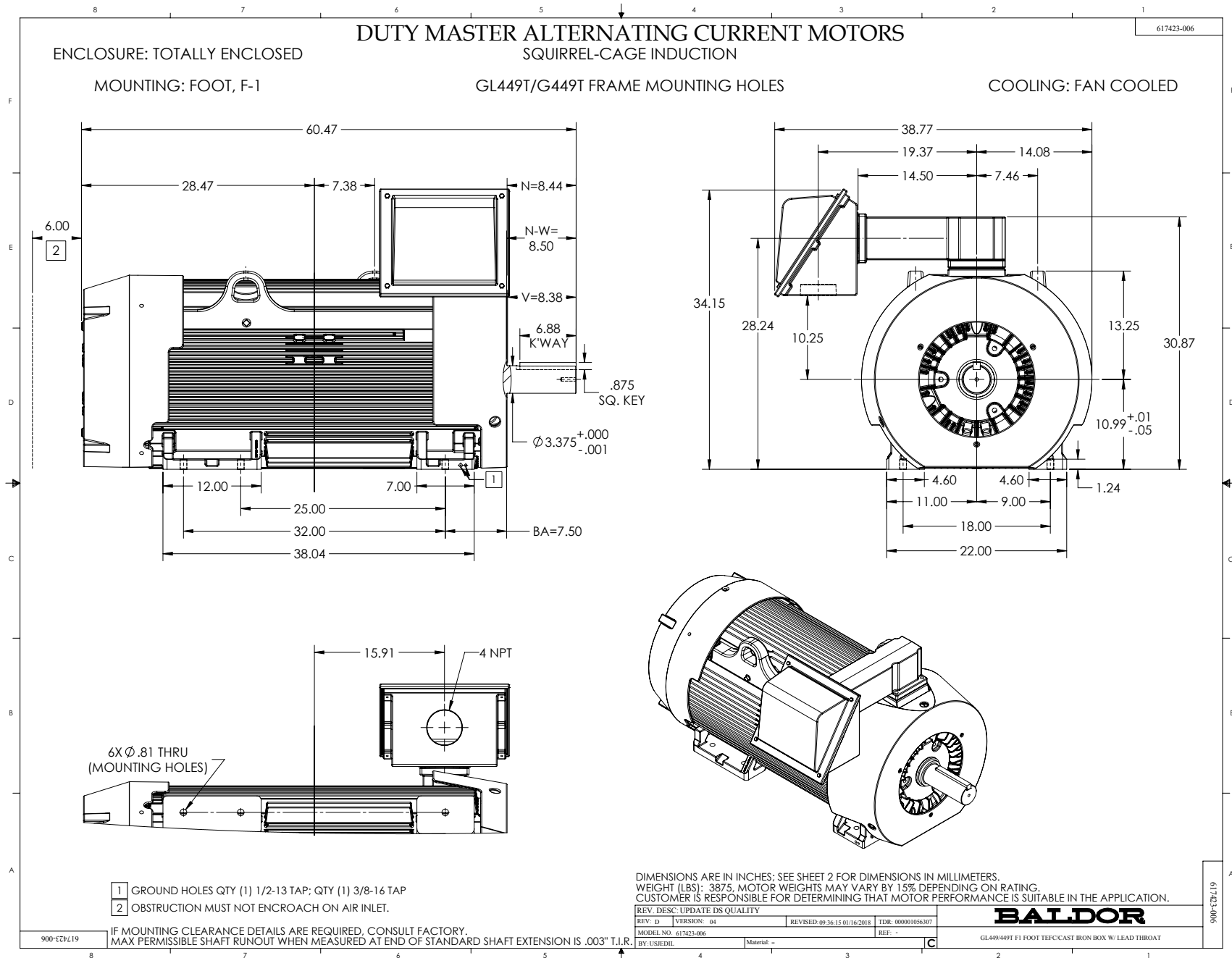


AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY P.B. GREENE
CK. BY K.W. KANOUFF
APP. BY K.W. KANOUFF
DATE 06/15/00

**A-C MOTOR
PERFORMANCE
CURVES** A44WG2420-R002
ISSUE DATE 06/15/00



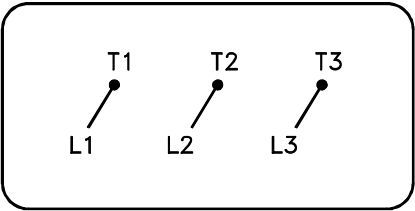
617423-006

COOLING: FAN COOLED



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