

ABB BALDOR RELIANCE III

Customer information packet

ECP49354T-4

350HP, 1785RPM, 3PH, 60HZ, L449T, A44176M, TEF

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	350.000 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	384.000 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	No Heater
High Voltage Full Load Amps	384.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 2 AWG

Part Detail

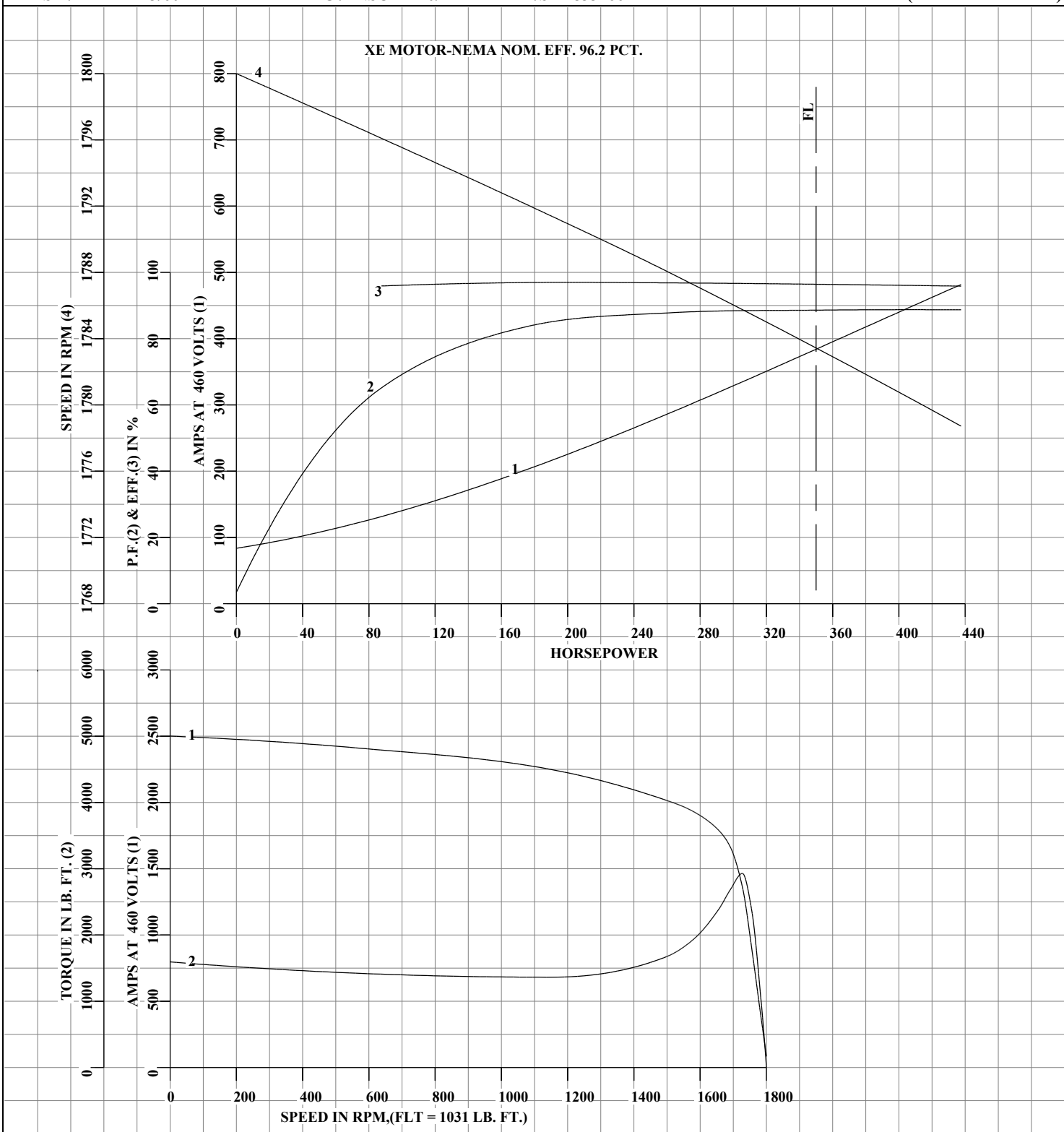
Revision	Z
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1557
Layout	617423-006
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#2 (04 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A44176M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.21 IN
Power Factor	88
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	None

Nameplate

NP3238													
CAT NO	ECP49354T-4			SPEC NO.		P44G5908							
HP	350	AMPS	384	VOLTS		460			DESIGN	B			
FRAME	L449T	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			87.9	NEMA NOM EFFICIENCY			96.2		
3/4 LOAD EFF.	96.6	MAX CORR KVAR			50			GUARANTEED EFFICIENCY			95.8		
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									

ECP49354T-4 - 350HP, 1785RPM, 3PH, 60HZ, L449T, A44176M, TEF						
CUSTOMER INFORMATION PACKET						
S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	350	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
384	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833166	418143048ME	---	---	.0103		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	83.7	1800	3.43	0	
1/4	87.6	131	1796	65.1	95.9	
2/4	175	202	1792	83.6	96.9	
3/4	262	289	1788	87.8	96.8	
4/4	350	384	1784	88.6	96.4	
5/4	438	482	1779	88.7	95.9	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	155	1594	2501	
PULL UP		1150	132	1363	2249	
BREAKDOWN		1728	284	2929	1361	
FULL LOAD		1784	100	1031	384	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 96.2 PCT.						
ABB		DRAWN BY: C.E. JAMISON CHECKED BY: W.L. SMITH APPROVED BY: W.L. SMITH DATE: 11/24/10		AC MOTOR PERFORMANCE DATA		A44WG1557-R001 DATE ISSUED 01/05/18



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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AC MOTOR
PERFORMANCE
DATA

A44WG1557-R001

ISSUE DATE 01/05/18

FRAME L449T

RPM 1785

S.F. 1.15

ROTOR 418143048ME

HP 350

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 384

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

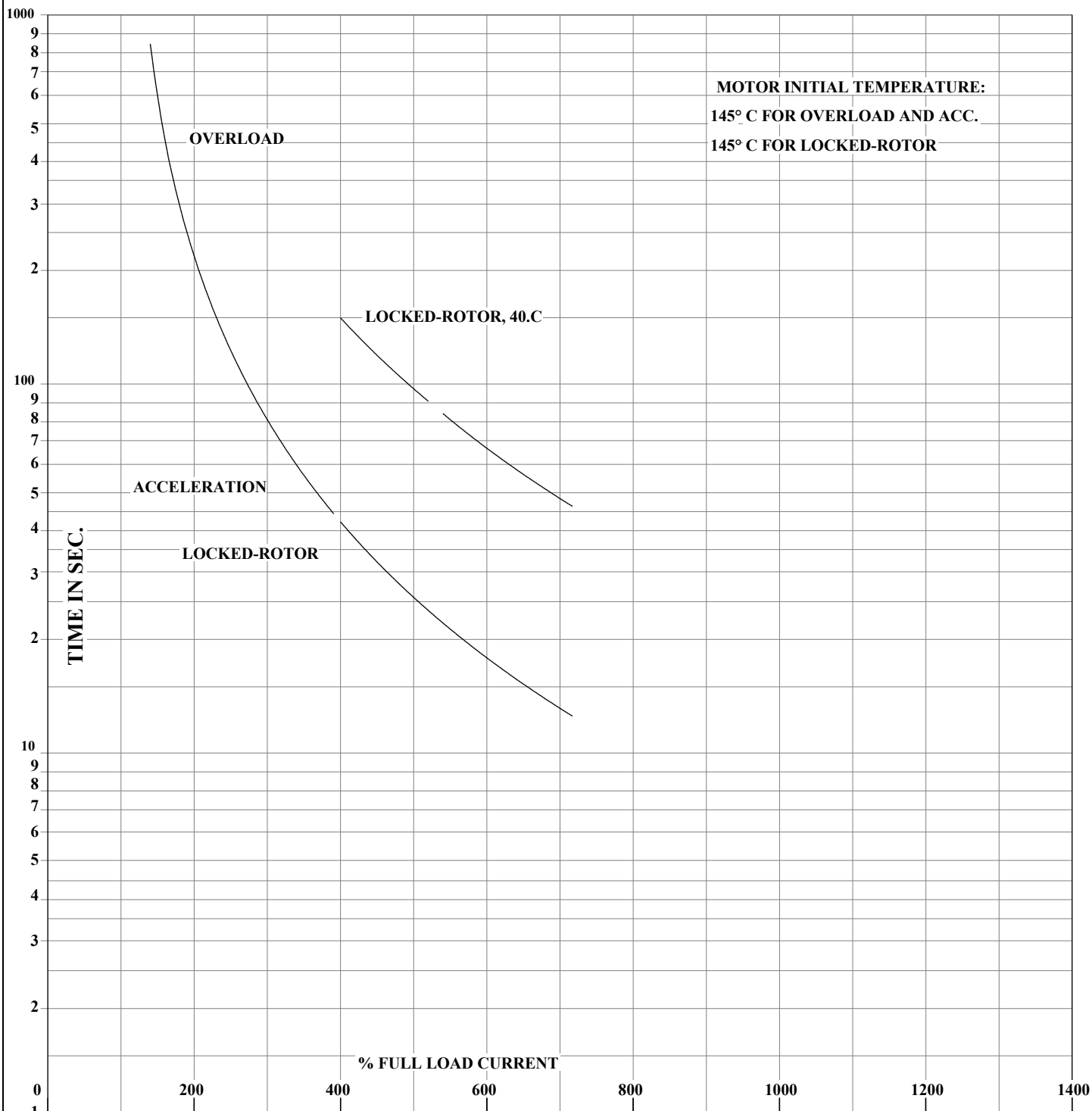
ENCLOSURE TEFC

STATOR RES. @ 25°C .0103

AMB °C / INSUL 40/F

E/S 833166

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

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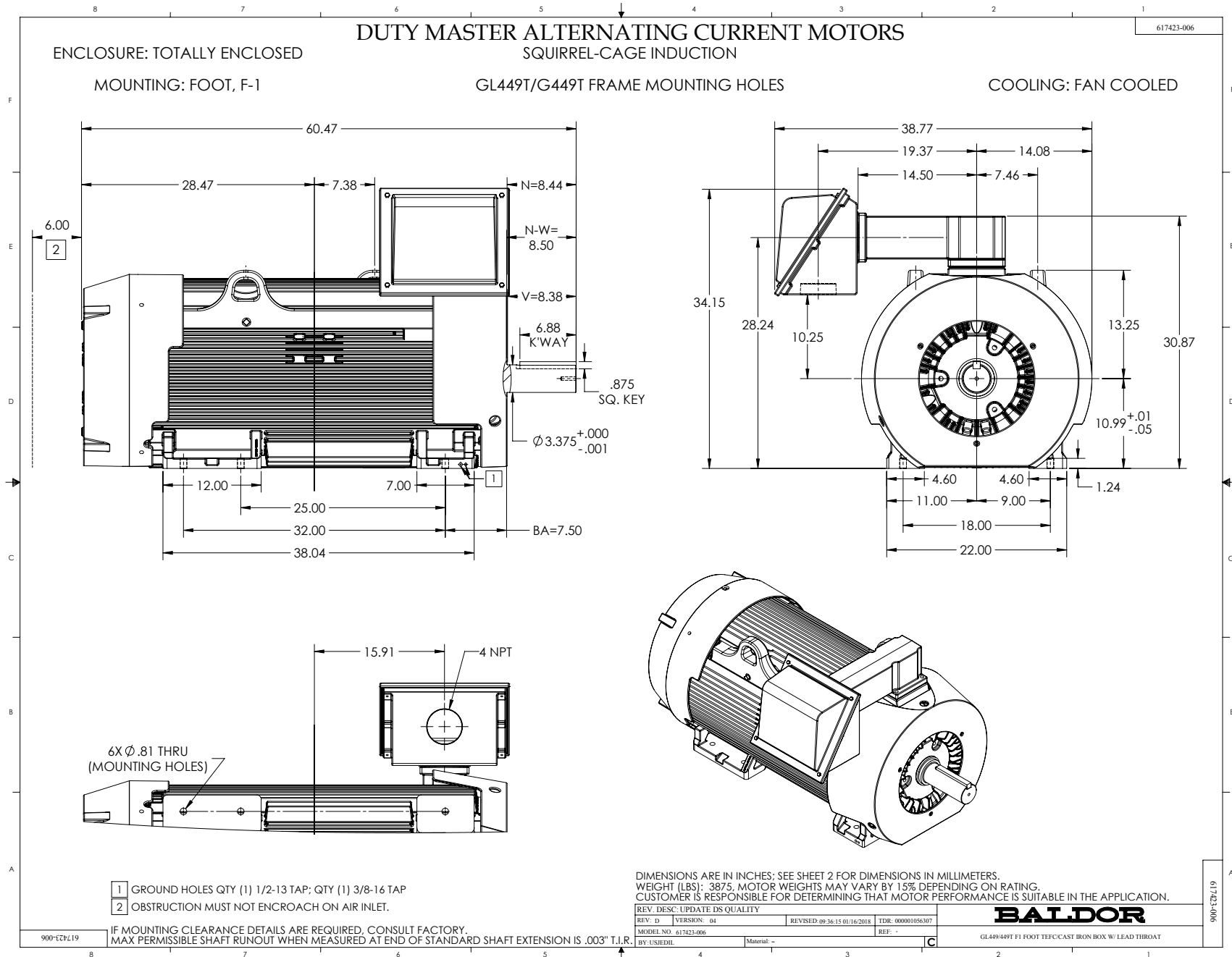


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AC MOTOR
PERFORMANCE
DATA

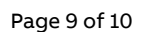
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ISSUE DATE 01/05/18



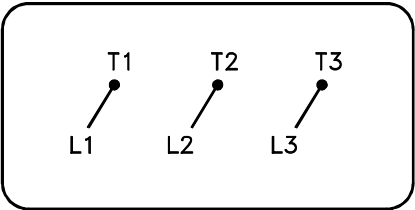
617423-006

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