

ABB BALDOR RELIANCE III

Customer information packet

EM44254T-2340

250HP, 1785RPM, 3PH, 60HZ, L449T, A44200M, TEF

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	2300.0 V @ 60 HZ 4000.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	32.400 A @ 4000.0 V 56.300 A @ 2300.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	Heater Included, 120 V
High Voltage Full Load Amps	32.4 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H

Part Detail

Revision	W
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4997
Layout	617423-169
Eff. date	05-06-2024
CD Diagram	416820-004
Poles	04
Leads	6#6 482406006P
Proprietary	False
Created date	10-11-2013

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Standards	Other
Motor Type	A44200M
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	RTD Only

Nameplate

NP3132L												
SPEC NO.	P44G5953			CAT.NO.		EM44254T-2340				FRAME	L449T	
HP	250	VOLTS	2300/4000		PHASE	3	DESIGN	-	TYPE	P		
RPM	1785	AMPS	56.3/32.4		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	110BC02J30X			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	6318/C3VL0241			ENCL	TEFC	CODE	H					
NEMA NOM/CSA QUOTED EFF	NEMA-NOM-EFFICIENCY			95								
SER.NO.												
	M44254L-2340										MOTOR WEIGHT	

000901002AAA	
EQUIPPED WITH 120V/245W AND 24	0V/245W SPACE HEATERS
120V HTR= 1H1,1H2	240V HTR= 2H1,2H2

NP2496L	
MOBIL POLYREX EM	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	250	P	3/60	1785	2300/4000
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
56.3/32.4	CONT	40/F	1.15	--	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418143043GE	---	---	.416/1.25		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	9.3	1800	6.02	0	
1/4	62.6	12.3	1797	59.7	91.7	
2/4	125	18.1	1793	78.8	94.6	
3/4	187	24.9	1789	85.2	95.1	
4/4	250	32.4	1785	87.5	95.0	
5/4	312	40.3	1781	88.2	94.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	137	1007	237	
PULL UP		270	98.9	727	229	
BREAKDOWN		1724	256	1880	124	
FULL LOAD		1785	100	735	32.4	
AMPERES SHOWN FOR 4000. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA						
		DR. BY R.K. BRIDGES CK. BY W.L. SMITH APP. BY W.L. SMITH DATE 04/30/14		A-C MOTOR PERFORMANCE DATA A44WG4997-R001 ISSUE DATE 04/30/14		

REL S.O.

RPM 1785

S.F. 1.15

ROTOR 418143043GE

FRAME L449T

VOLTS 2300/4000

NEMA DESIGN --

TEST S.O. TYPICAL DATA

HP 250

AMPS 56.3/32.4

CODE LETTER H

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

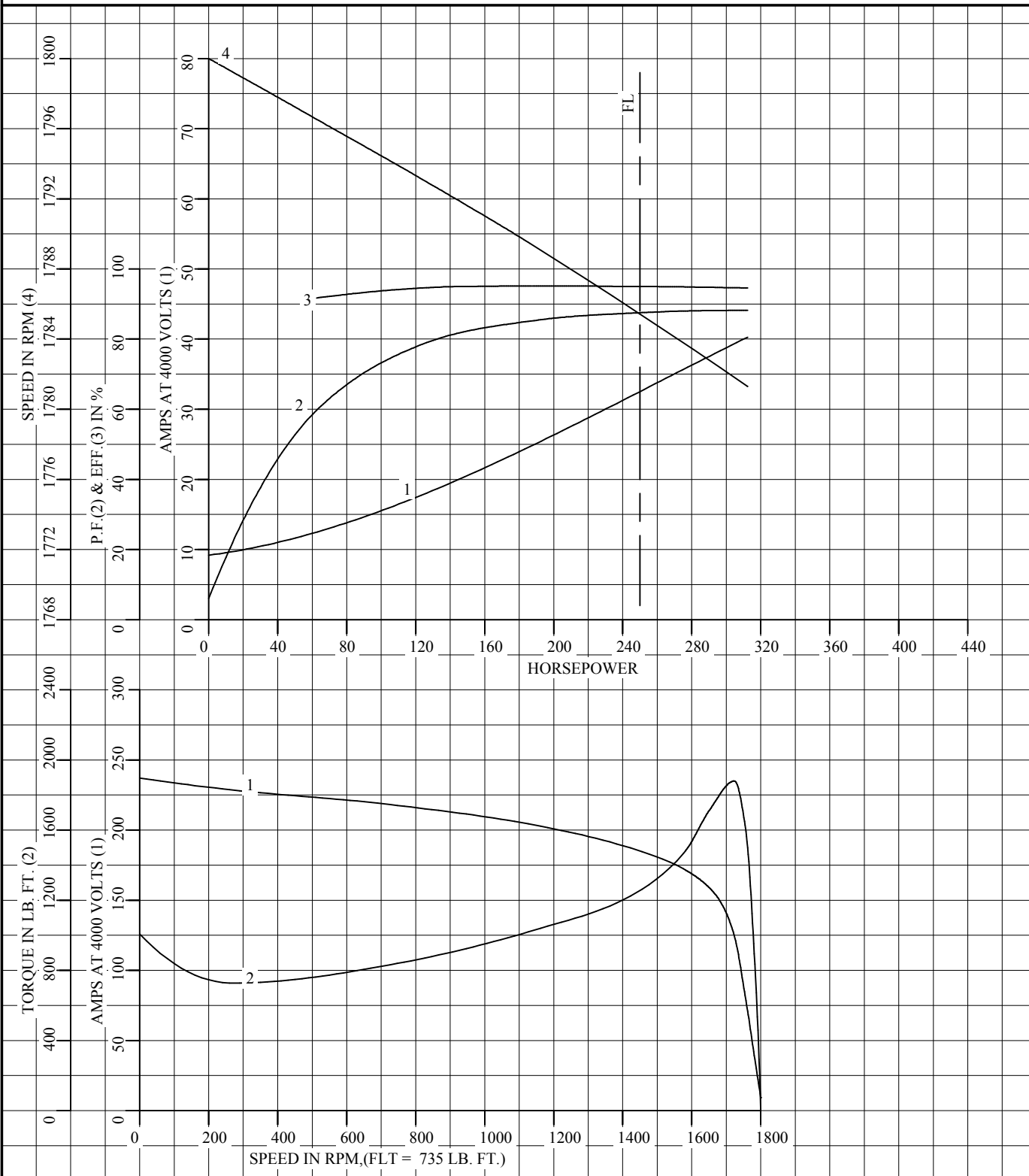
STATOR RES. @ 25 °C .416/1.25

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 4000 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 R.K. BRIDGES
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 04/30/14

**A-C MOTOR
PERFORMANCE
CURVES**

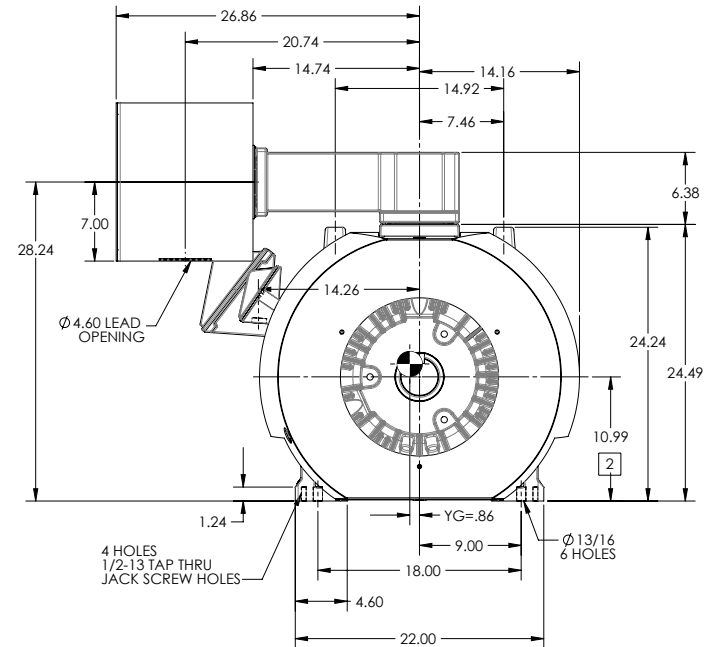
A44WG4997-R001

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SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

INCLUDES DOWEL PIN HOLES, VERTICAL JACK SCREW HOLES, F1 AUX BOXES
FOR WDG RTD & SPACE HEATERS AND 14X14X12 FABRICATED MAIN CBOX



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

WEIGHT (LBS): 4000

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: ADD COG TO DRAWING			
REV: A	VERSION: 01	REVISED: 01:40:05 08/31/2015	TDR: 000000941807
MODEL NO. 617423-169			REF:
BY: RAGJSS1		Material:	

D/S GL449T W/ 14X14X12 CB,DOWEL JACK SCREWS,320 AUX,180 AUX

DUTY MASTER ALTERNATING CURRENT MOTORS

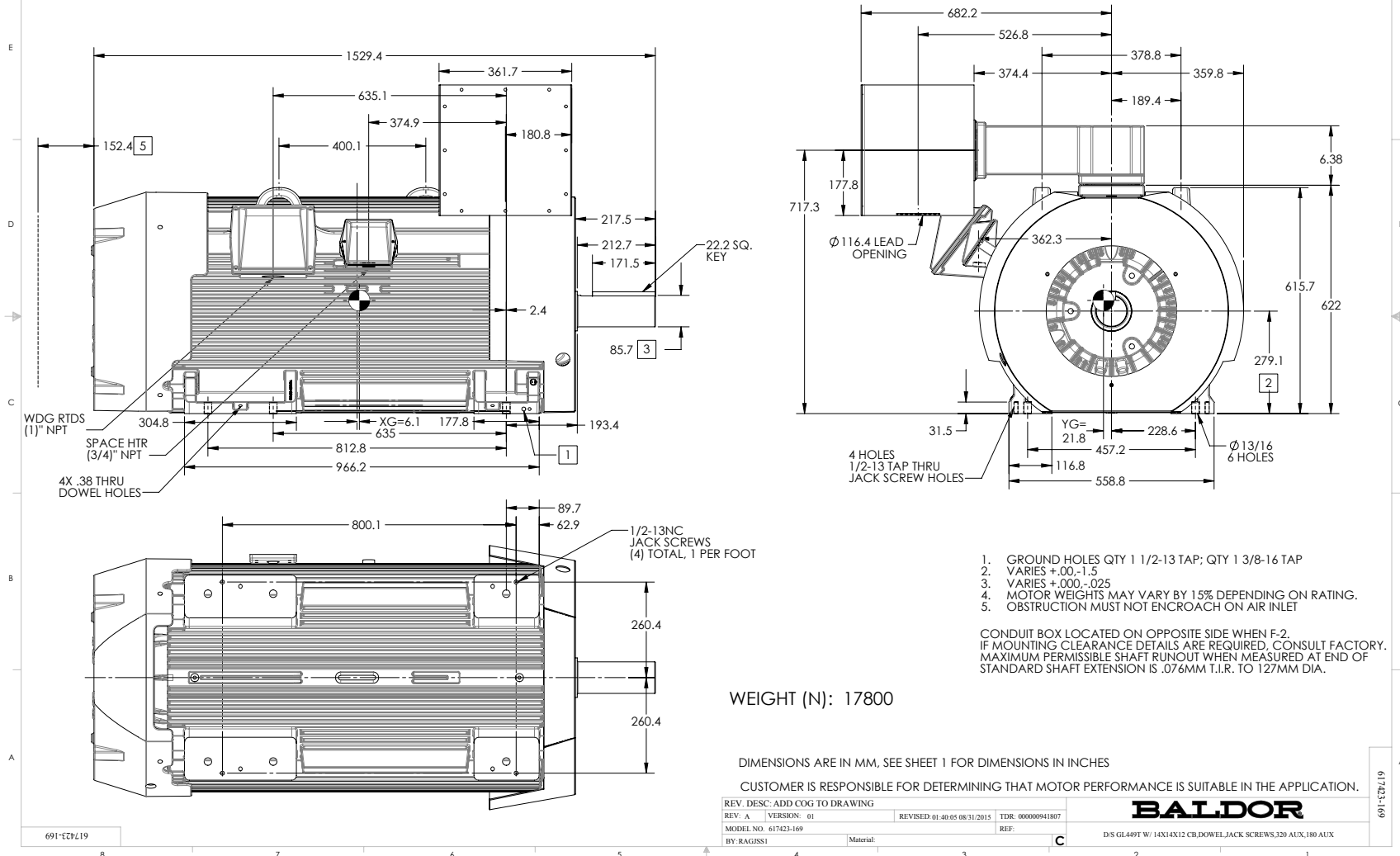
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME GL449T ABOVE NEMA RATINGS

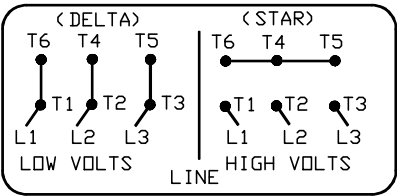
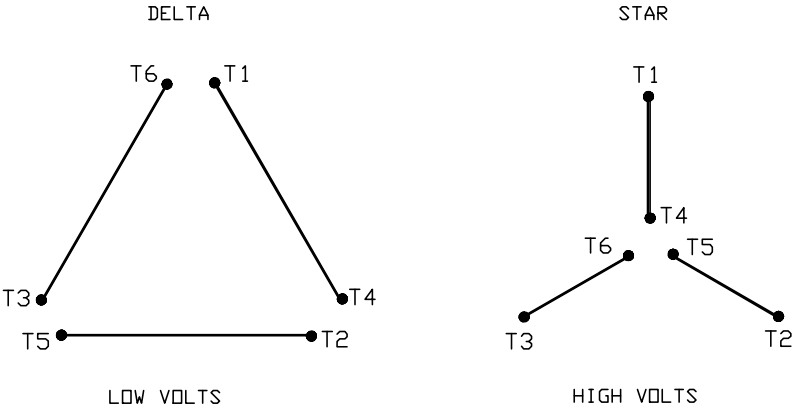
COOLING: FAN COOLED

MOUNTING: FOOT

 INCLUDES DOWEL PIN HOLES, VERTICAL JACK SCREW HOLES, F1 AUX BOXES
FOR WDG RTD & SPACE HEATERS AND 14X14X12 FABRICATED MAIN CBOX


416820-004

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 6 LEAD < DELTA/STAR CONNECTED >
DUAL VOLTAGE < LOW VOLTS/HIGH VOLTS >



< N. P. 1767-CC >

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: C	VERSION: 03	TDR: 000001009406
FILE: \RSN\00017\950	REVISED: 10:55:03 12/21/2016	BY: MGHMTT
MTL: -	© □	

BALDOR

A-C MOTOR CONNECTION DIAGRAM
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