

ABB BALDOR RELIANCE III

Customer information packet

EM44306T-4

300HP, 1190RPM, 3PH, 60HZ, L449T, TEFC, F1

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	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
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
Heater Indicator	No Heater
High Voltage Full Load Amps	340.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44208M

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4970
Layout	617423-200
Eff. date	05-26-2022
CD Diagram	416820-036
Poles	06
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	04-09-2015

Mounting Arrangement	F1
Number of Poles	6
Overall Length	60.21 IN
Power Factor	86
Product Family	General Industrial
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	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

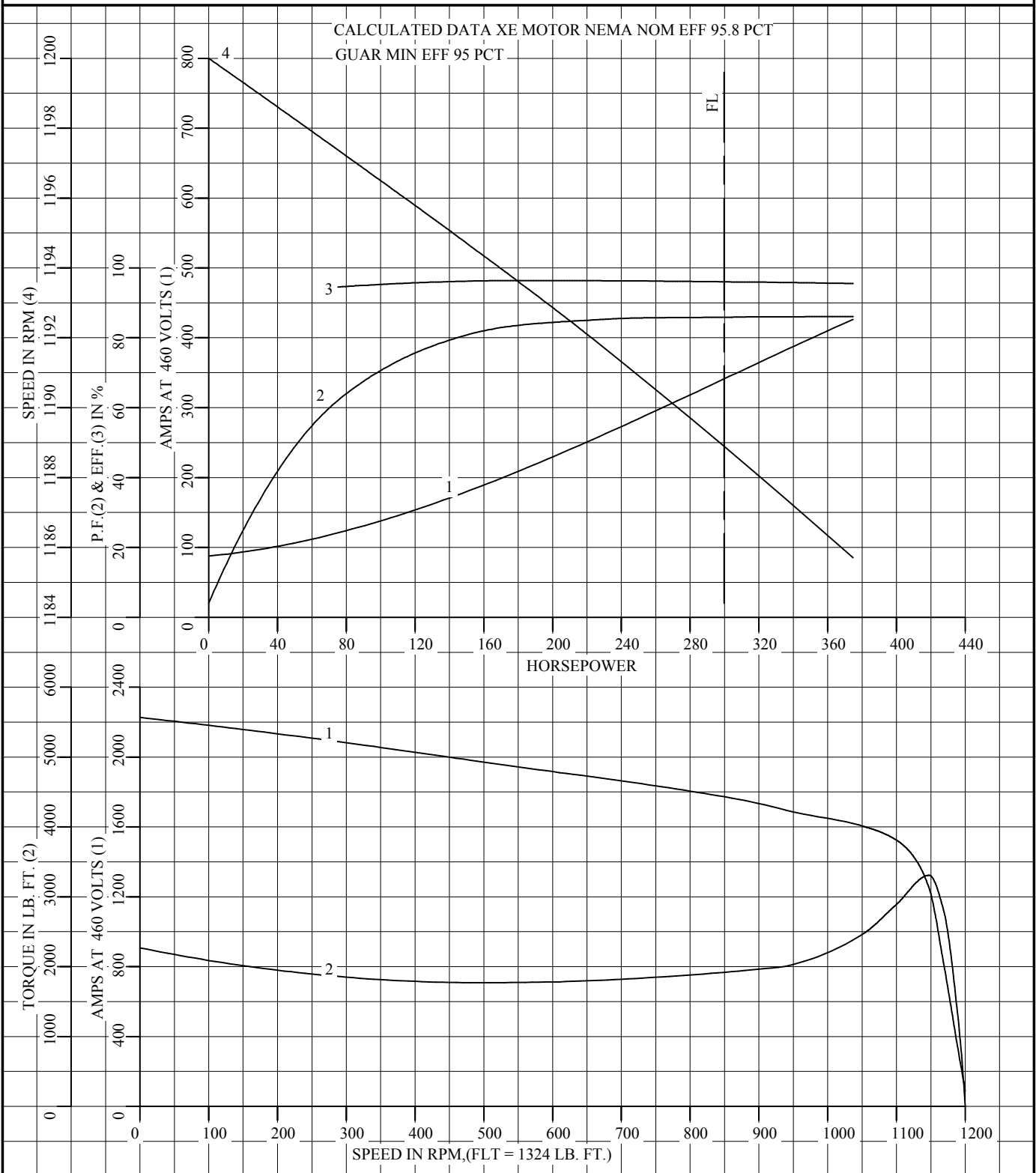
NP2496L	
MOBIL POLYREX EM	

NP2349L

SPEC NO.	A44-7111-4970			CAT.NO.	EM44306T-4				FRAME	L449T	
HP	300	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P		
RPM	1190	AMPS	340	HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	110BC02J30X		DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	90BC03J30X		ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR	86	NEMA-NOM-EFFICIENCY			95.8		
						MAX CORR KVAR	61	GUARANTEED EFFICIENCY		95	
						NEMA NOM/CSA QUOTED EFF					
									MOTOR WEIGHT	3626	

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				
		Page 6 of 1				

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.

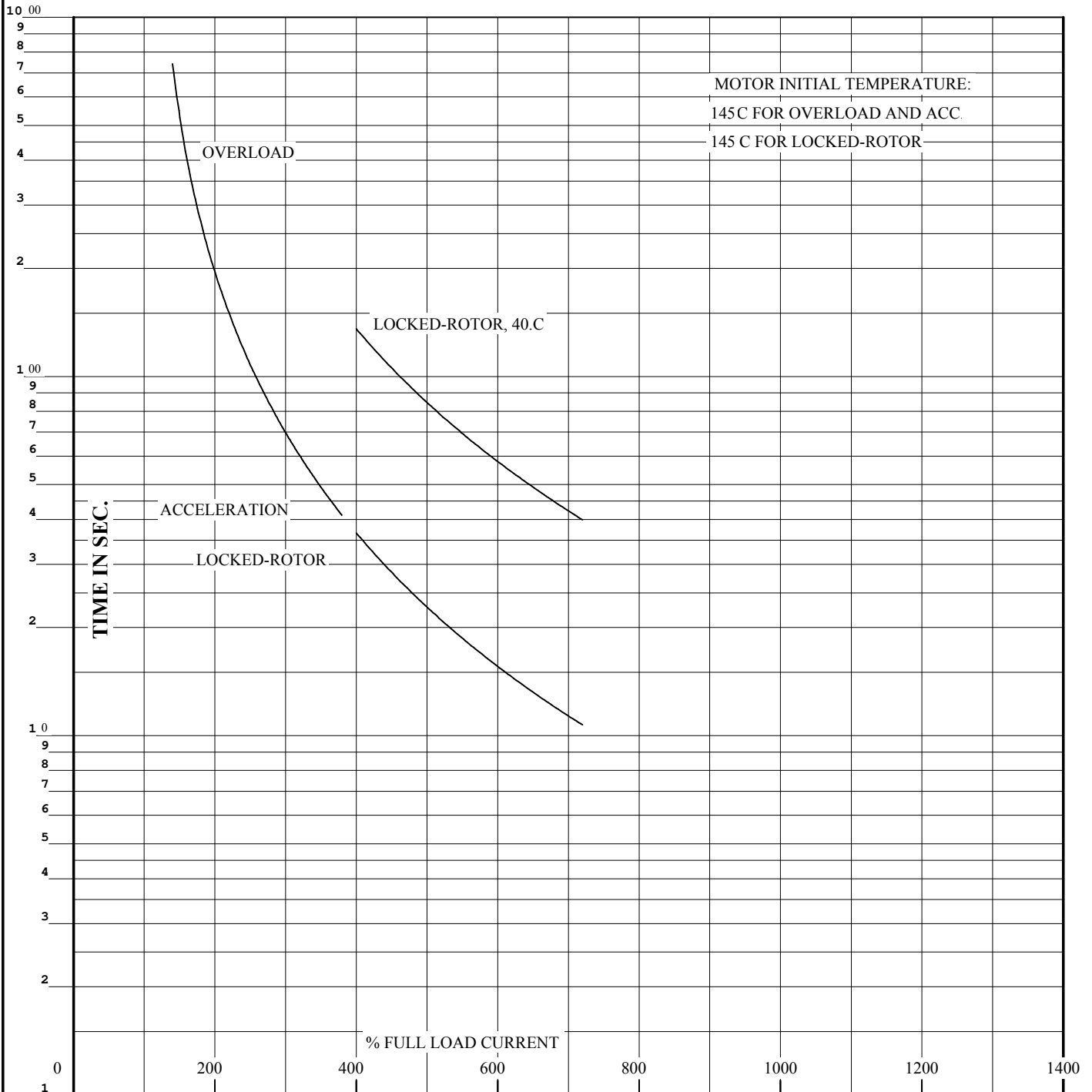
BALDOR
A MEMBER OF THE ABB GROUP

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.	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)


THERMAL LIMIT CURVE

REMARKS:

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.



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 8 of 11

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

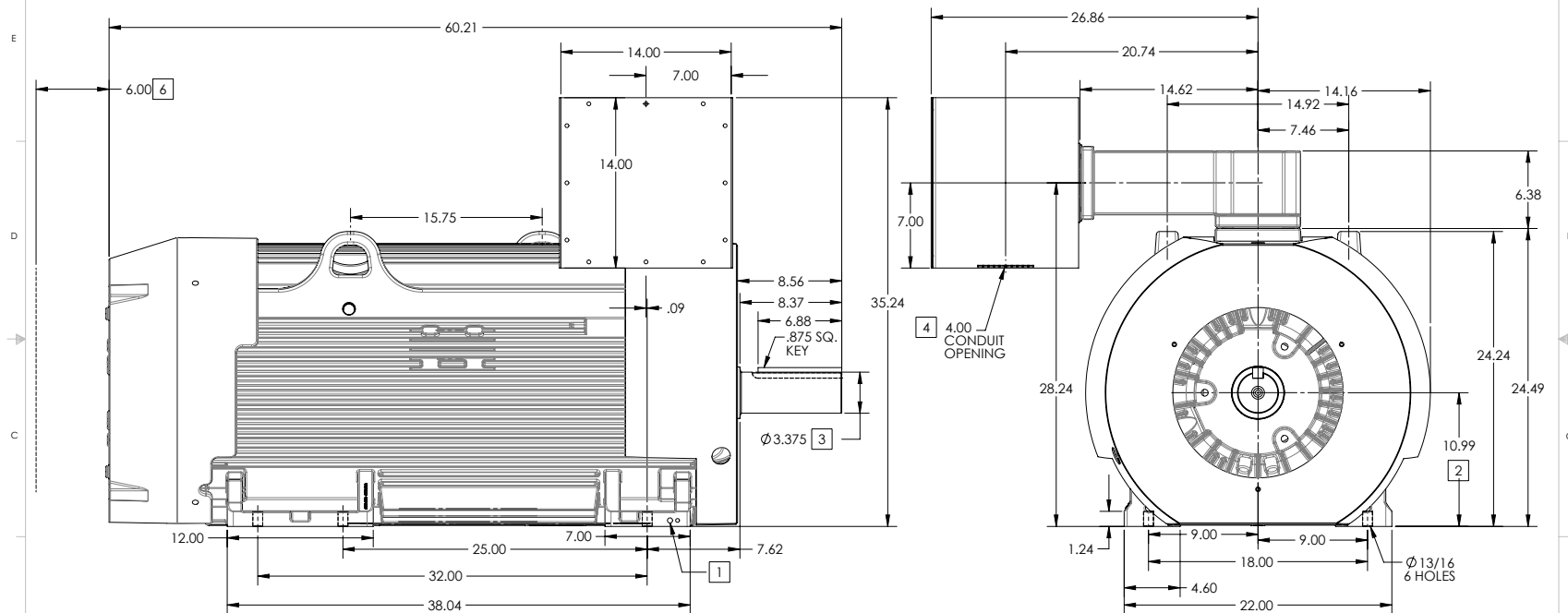
ENCLOSURE: TOTALLY ENCLOSED

FRAME GL449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G449T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00-.06
3. VARIES +.000-.001
4. FABRICATED STEEL CONDUIT BOX WITH AN OPENING FOR CONDUIT.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO 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): 3875

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

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

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 12/31/00 09/22/2014	TDR: 000000871203
MODEL NO. 617423-200		REF:	
BY: RAGEC	Material:		

BALDOR

DIM SHEET GL449T/449T FOOT MOUNTED HORIZONTAL 14X14X12 CBOX

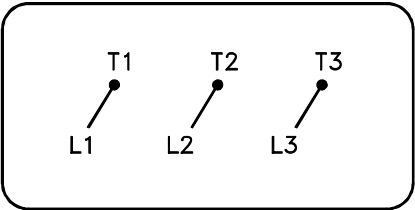
SQUIRREL-CAGE INDUCTION

INCLUDES G449T FRAME MOUNTING HOLES



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