

ABB BALDOR RELIANCE III

Customer information packet

ECP4406TR-4

150HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445T
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	150.000 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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	15-60
Current @ Voltage	169.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617427-001
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0 Y
Proprietary	False
Created date	12-10-2013

Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Roller
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBILITH SHC 220	

NP3238

CAT NO	ECP4406TR-4			SPEC NO.		A44-5218-3335						
HP	150	AMPS	169	VOLTS		460		DESIGN	B			
FRAME	445T	RPM	1785	HZ	60	AMB	40	SF	1.15			
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA		6318		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X			TYPE	P	ENCL	TEFC	CODE	F			
O.D.E. BRG.	90BC03J30X			POWER FACTOR		86		NEMA NOM EFFICIENCY			95.8	
3/4 LOAD EFF.	96.1		MAX CORR KVAR		30.0		GUARANTEED EFFICIENCY			95		
TEMP CODE	T3		TEMP =		200							
CHP HZ	60-90		CT HZ	15-60		VT HZ	0-60					
INVERTER-TEMP-CODE	T3											
SER.NO.				MOTOR WEIGHT								

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							ECP4406TR-4 - 150HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1																																																																																			
							FRAME							HP							TYPE							PHASE/ HERTZ							RPM							VOLTS																																																							
							445T							150							P							3/60							1785							460																																																							
AMPS														DUTY														AMB °C/ INSUL														S.F.														NEMA DESIGN														CODE LETTER														ENCLOSURE													
169														CONT														40/F														1.15														B														F														TEFC													
E/S														ROTOR														TEST S.O.														TEST DATE														STATOR RES. @25 °C OHMS (BETWEEN LINES)																																									
498808														418143053AE														---														---														.0298																																									
PERFORMANCE																																																																																																	
LOAD														HP														AMPERES														RPM														% POWER FACTOR														% EFFICIENCY																											
NO LOAD														0														48.9														1800														4.26														0																											
1/4														37.6														69.1														1796														54.3														93.6																											
2/4														75.0														97.1														1792														75.6														95.7																											
3/4														112														131														1788														83.4														96.0																											
4/4														150														169														1784														86.5														95.8																											
5/4														188														210														1779														87.6														95.3																											
SPEED TORQUE																																																																																																	
																												RPM														TORQUE % FULL LOAD														TORQUE LB.-FT.														AMPERES																											
LOCKED ROTOR																												0														130														572														1041																											
PULL UP																												270														116														511														1020																											
BREAKDOWN																												1729														280														1237														579																											
FULL LOAD																												1784														100														442														169																											
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																																																																																																	
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.8 PCT.																																																																																																	
																												DRAWN BY: <u>C.B.ATANGANE</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>C.E.JAMISON</u> DATE: <u>10/16/23</u>																												AC MOTOR PERFORMANCE DATA														A44WG3335-R001 DATE ISSUED 02/03/25																											

FRAME 445T

RPM 1785

S.F. 1.15

ROTOR 418143053AE

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 169

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

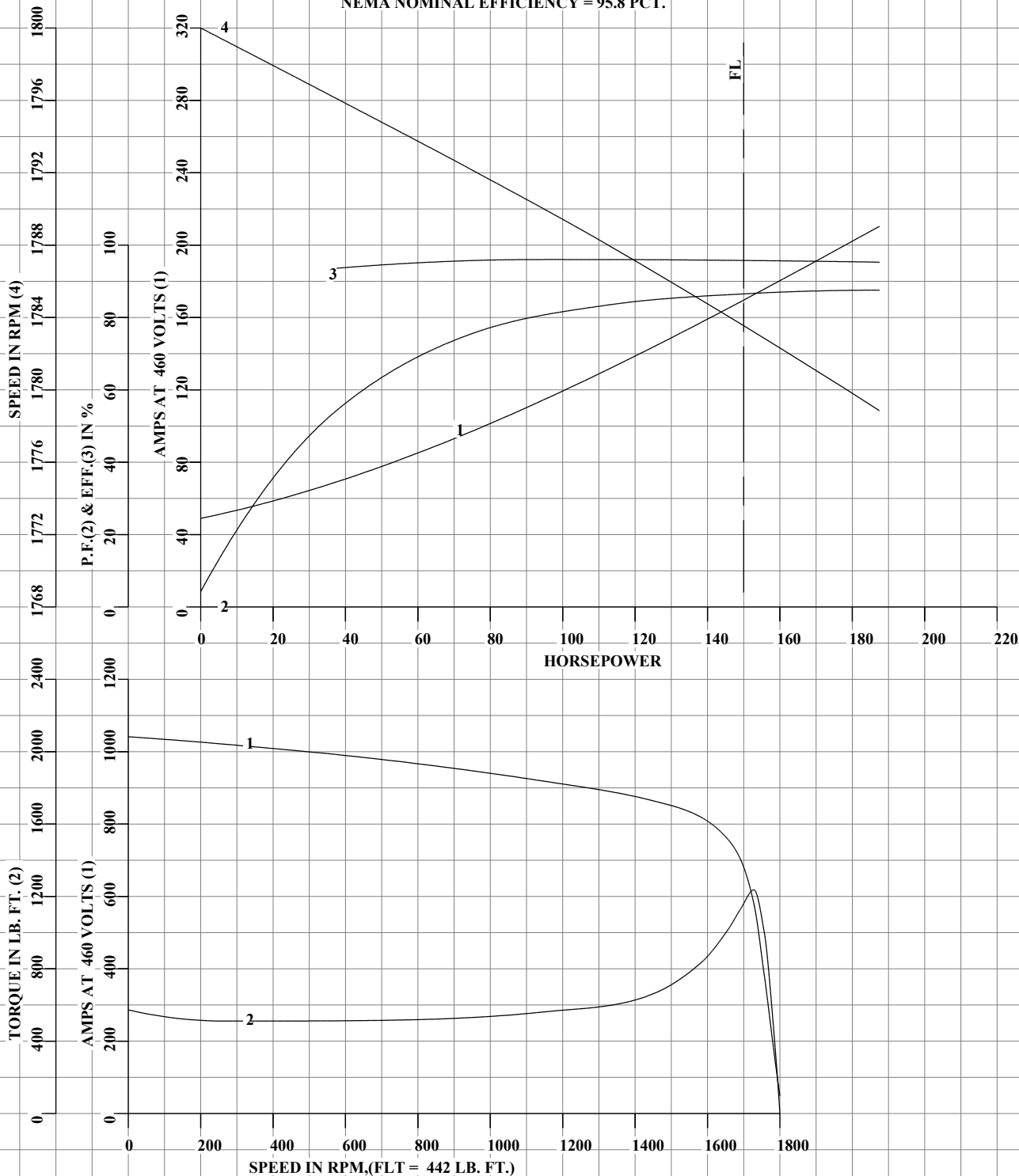
STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.8 PCT.



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



DRAWN BY: C.B.ATANGANE
CHECKED BY: C.E.JAMISON
APPROVED BY: C.E.JAMISON
DATE: 10/16/23

AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

ISSUE DATE 02/03/25

FRAME 445T

RPM 1785

S.F. 1.15

ROTOR 418143053AE

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 169

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

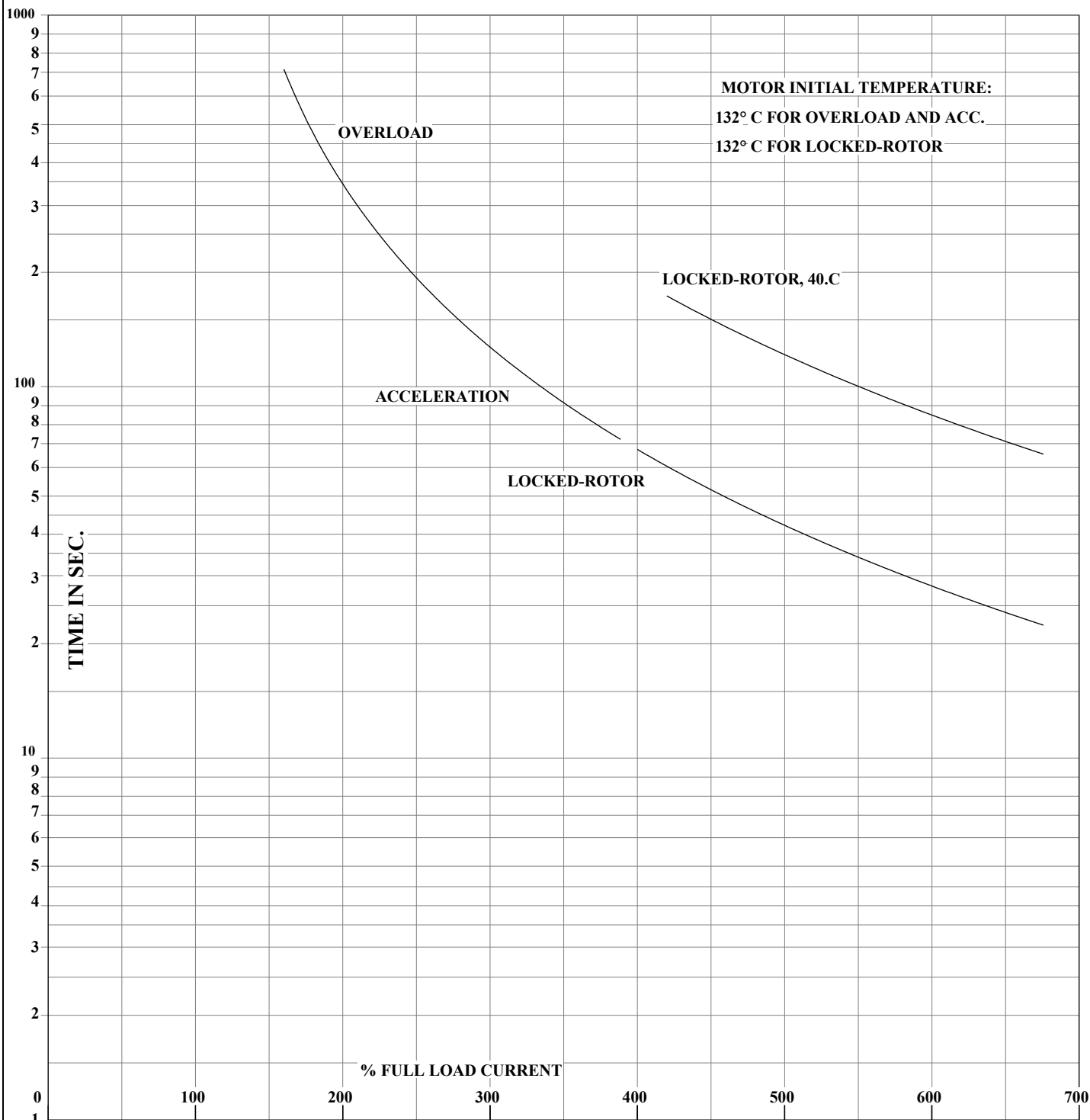
ENCLOSURE TEFC

STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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



DRAWN BY: C.B.ATANGANE
CHECKED BY: C.E.JAMISON
APPROVED BY: C.E.JAMISON
DATE: 10/16/23

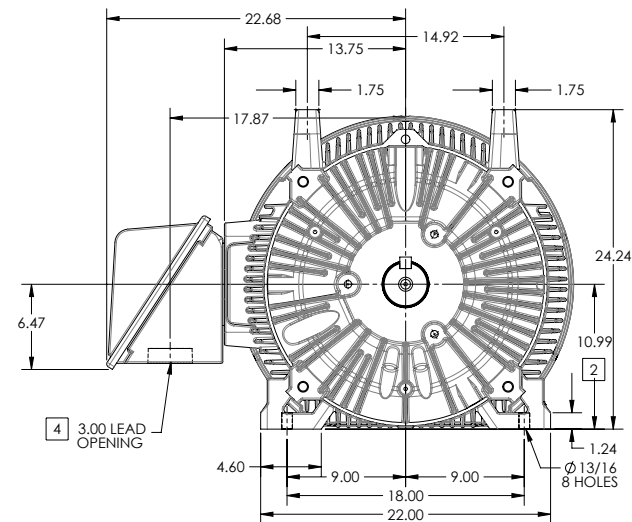
AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

ISSUE DATE 02/03/25

SQUIRREL-CAGE INDUCTION

INCLUDES 444T FRAME MOUNTING HOLES



- G445T/444T STD – FOOTED – SIDE/CENTER C/B

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

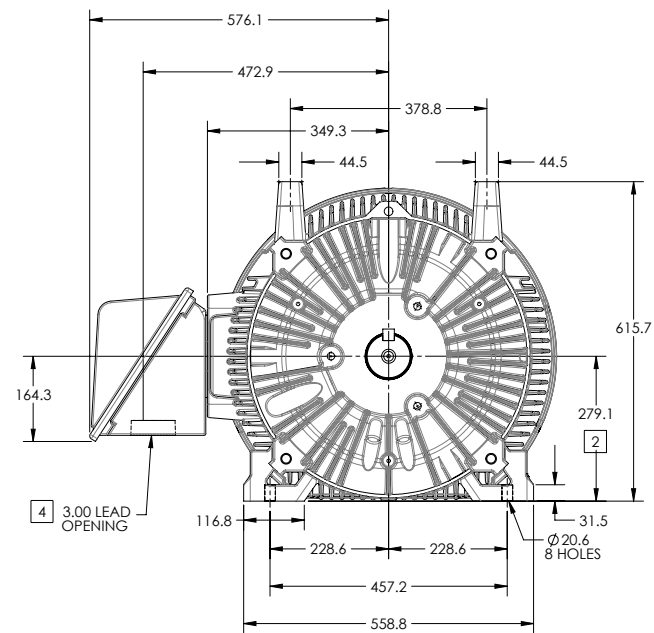
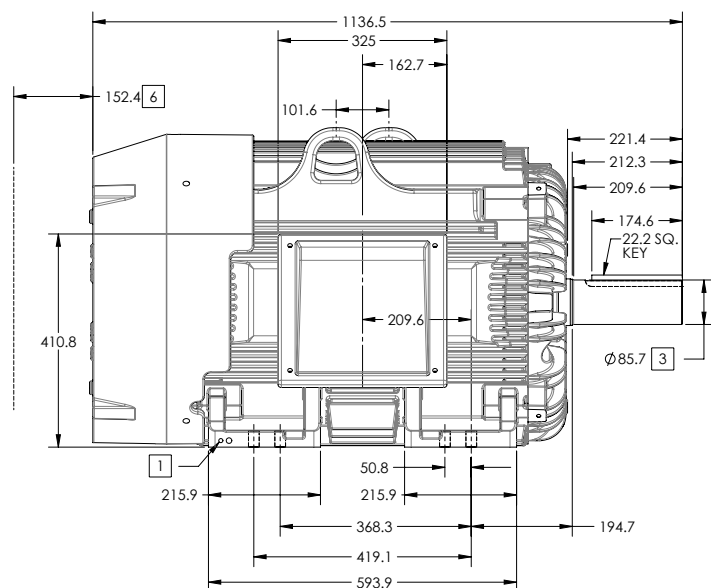
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +0,-1.5
3. VARIES +.00,-.03
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCR OACH 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 .08 MM T.I.R. TO 127 MM DIA.

[5] WEIGHT (KGS): 970

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

 SHEET NUMBER
2 OF 2

100-227-119

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION	
REV: E VERSION: 05	REVISED: 09-22-56 06/12/2014 TDR: 00000857938
MODEL NO. 617427-001	REF:
BY: RAGRA	Material:

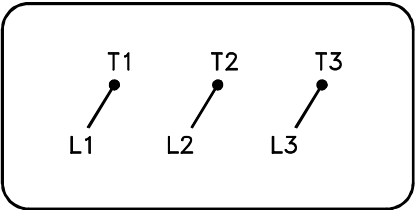
BALDOR

G445T444T STD - FOOTED - SIDE/CENTER C/B

617427-001

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