

ABB BALDOR RELIANCE III

Customer information packet

ECP4411T-4

125HP, 1188RPM, 3PH, 60HZ, 445T, A44090M, TEFC

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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	15-60
Current @ Voltage	146.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	146.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3350
Layout	617427-001
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	08-15-2012

Motor Type	A44090M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	84
Product Family	Other
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	1188 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238													
CAT NO	ECP4411T-4			SPEC NO.		P44G3941							
HP	125	AMPS	146			VOLTS	460			DESIGN	B		
FRAME	445T	RPM	1188	HZ	60	AMB	40	SF	1.15				
D.E. BRG.DATA	6318	O.D.E. BRG.DATA				6318	PH	3	DUTY	CONT	INSUL.CLASS	F	
D.E. BRG.	90BC03J30X			TYPE	P	ENCL	TEFC	CODE	G				
O.D.E. BRG.	90BC03J30X			POWER FACTOR			84	NEMA NOM EFFICIENCY			95		
3/4 LOAD EFF.	95.3	MAX CORR KVAR			30.0		GUARANTEED EFFICIENCY			94.1			
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					ECP4411T-4 - 125HP, 1188RPM, 3PH, 60HZ, 445T, A44090M, TEFC				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		445T	125	P	3/60	1188	460				
AMPS		DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
146		CONT	40/F	1.15	B	G	TEFC				
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)							
498802	418143098ME	---	---	.0377							
PERFORMANCE											
LOAD	HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY					
NO LOAD	0	44.6	1200	4.33		0					
1/4	31.3	64.2	1197	49.1		92.9					
2/4	62.5	86.3	1195	71.2		95.3					
3/4	93.7	114	1192	80.3		95.6					
4/4	125	146	1189	84.1		95.4					
5/4	156	180	1186	85.6		94.9					
SPEED TORQUE											
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES							
LOCKED ROTOR	0	136	751	976							
PULL UP	168	120	665	938							
BREAKDOWN	1148	267	1474	561							
FULL LOAD	1189	100	552	146							
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 = 95.0 PCT.											
		DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>04/20/10</u>		AC MOTOR PERFORMANCE DATA		A44WG3350-R001 DATE ISSUED 08/09/19					

FRAME 445T

RPM 1188

S.F. 1.15

ROTOR 418143098ME

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 146

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

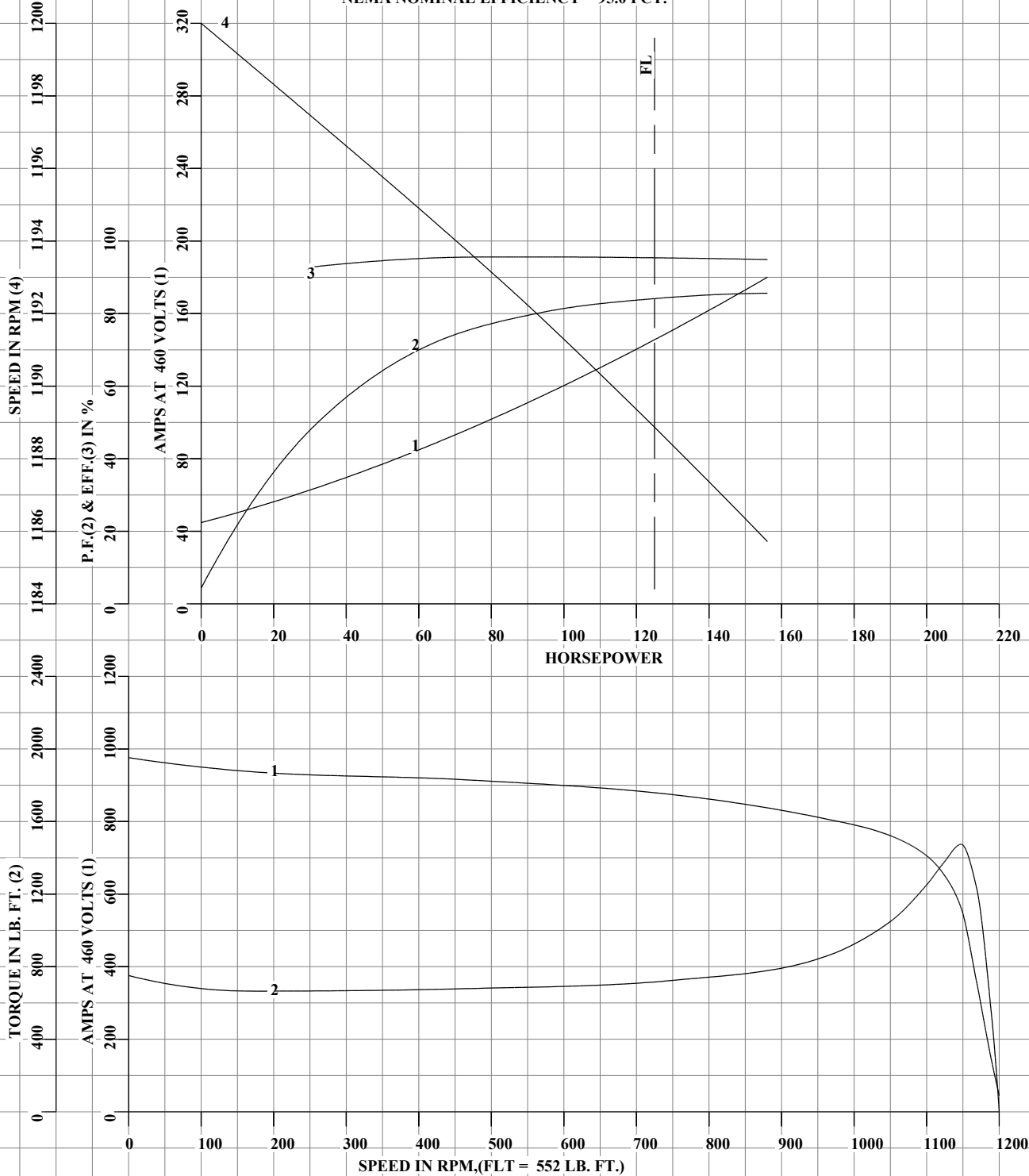
STATOR RES. @ 25°C .0377

AMB °C / INSUL 40/F

E/S 498802

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.0 PCT.



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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 CHECKED BY: J.J.HARRISON
 APPROVED BY: W. L. SMITH
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AC MOTOR
 PERFORMANCE
 DATA

A44WG3350-R001

ISSUE DATE 08/09/19

FRAME 445T

RPM 1188

S.F. 1.15

ROTOR 418T43098ME

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 146

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

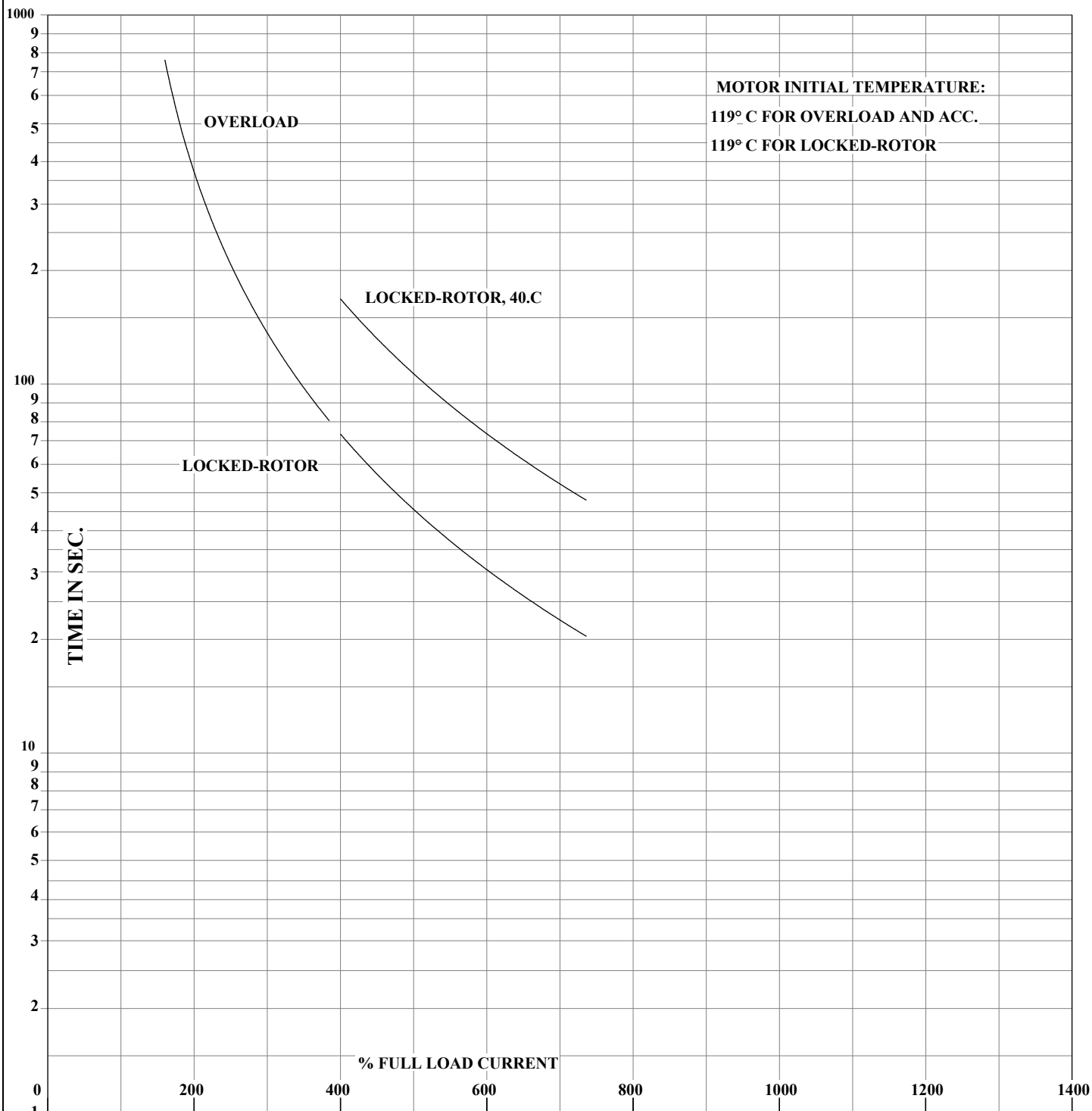
ENCLOSURE TEFC

STATOR RES. @ 25°C .0377

AMB °C / INSUL 40/F

E/S 498802

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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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 DATE: 04/20/10

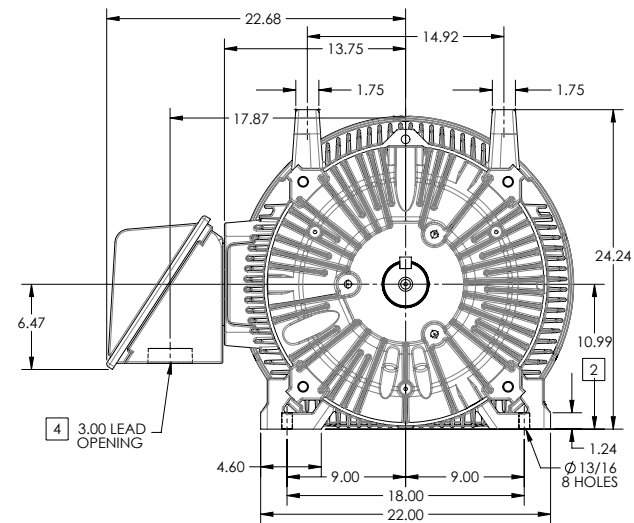
AC MOTOR
PERFORMANCE
DATA

A44WG3350-R001

ISSUE DATE 08/09/19

SQUIRREL-CAGE INDUCTION

INCLUDES 444T FRAME MOUNTING HOLES



- 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.

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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

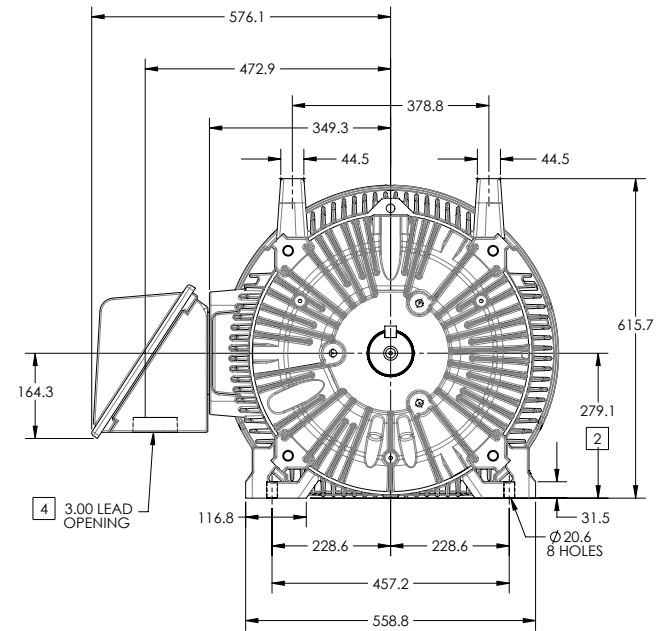
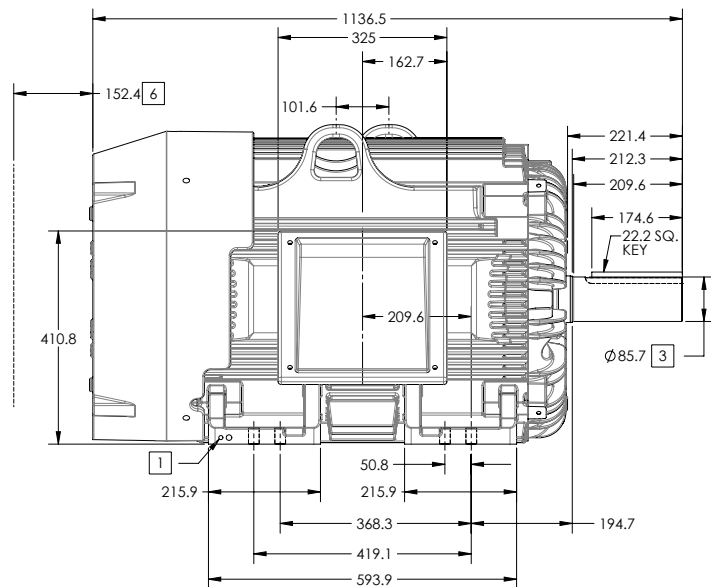
ENCLOSURE: TOTALLY ENCLOSED

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
MODEL NO. 617427-001	REVISED: 09-22-56 06/12/2014
BY: RAGRA	TDR: 00000857938
Material:	REF:

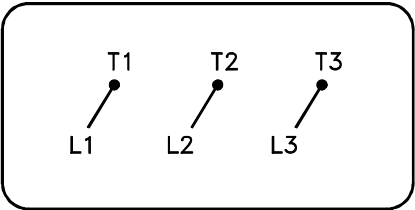
BALDOR

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