

ABB BALDOR RELIANCE III

Customer information packet

ECP4406T-4

150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, 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	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	Polyrex EM (-20F +300F)
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	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617427-001
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 Y
Proprietary	False
Created date	08-10-2012

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

Nameplate

NP3238															
CAT NO	ECP4406T-4				SPEC NO.	P44G3930									
HP	150	AMPS	169			VOLTS	460			DESIGN	B				
FRAME	445T	RPM	1785	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	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				95.0				
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										

NP2496L	
MOBIL POLYREX EM	

ECP4406T-4 - 150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC							
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET	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

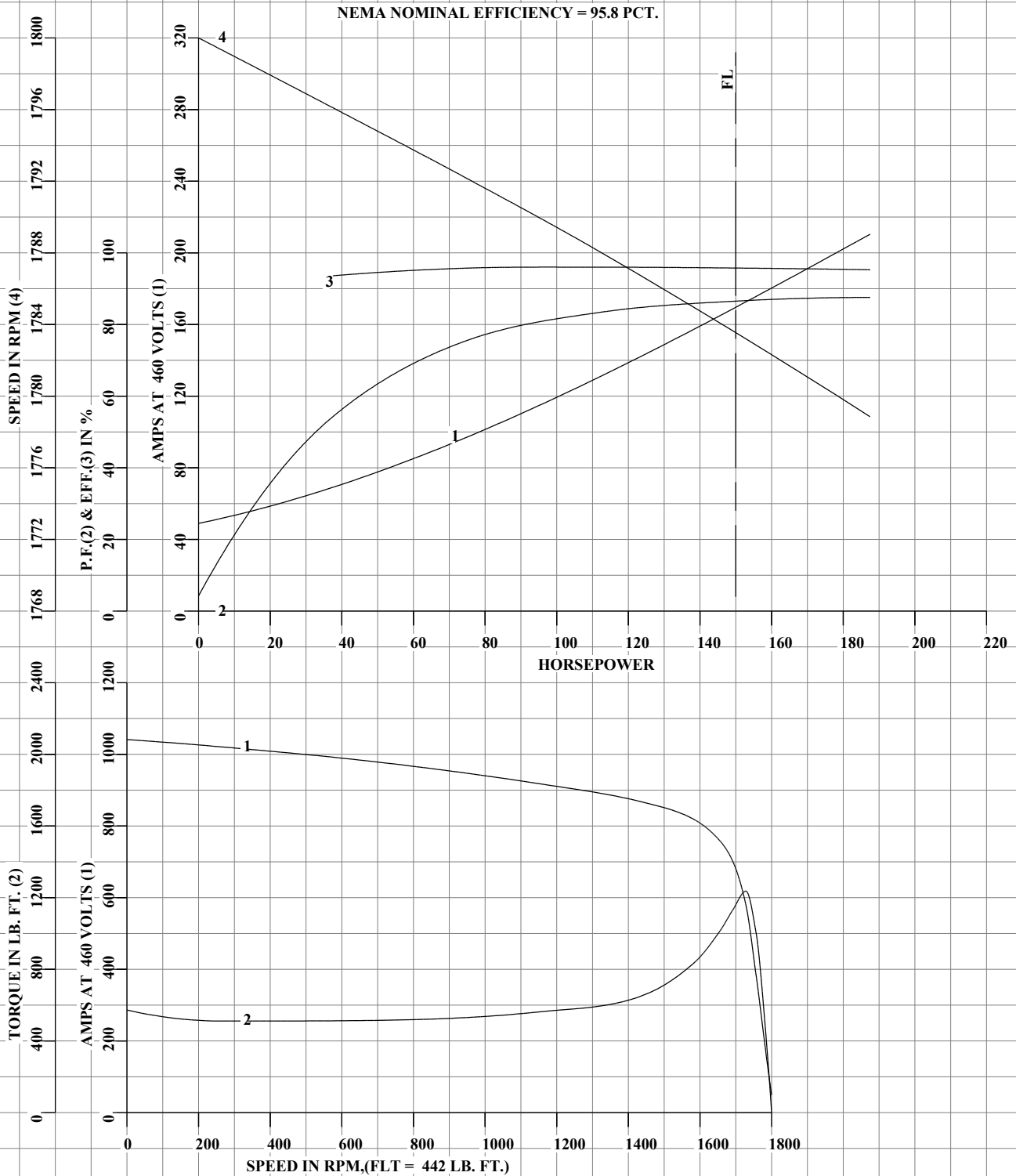
ENCLOSURE TEFC

STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)



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: 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 418T43053AE

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

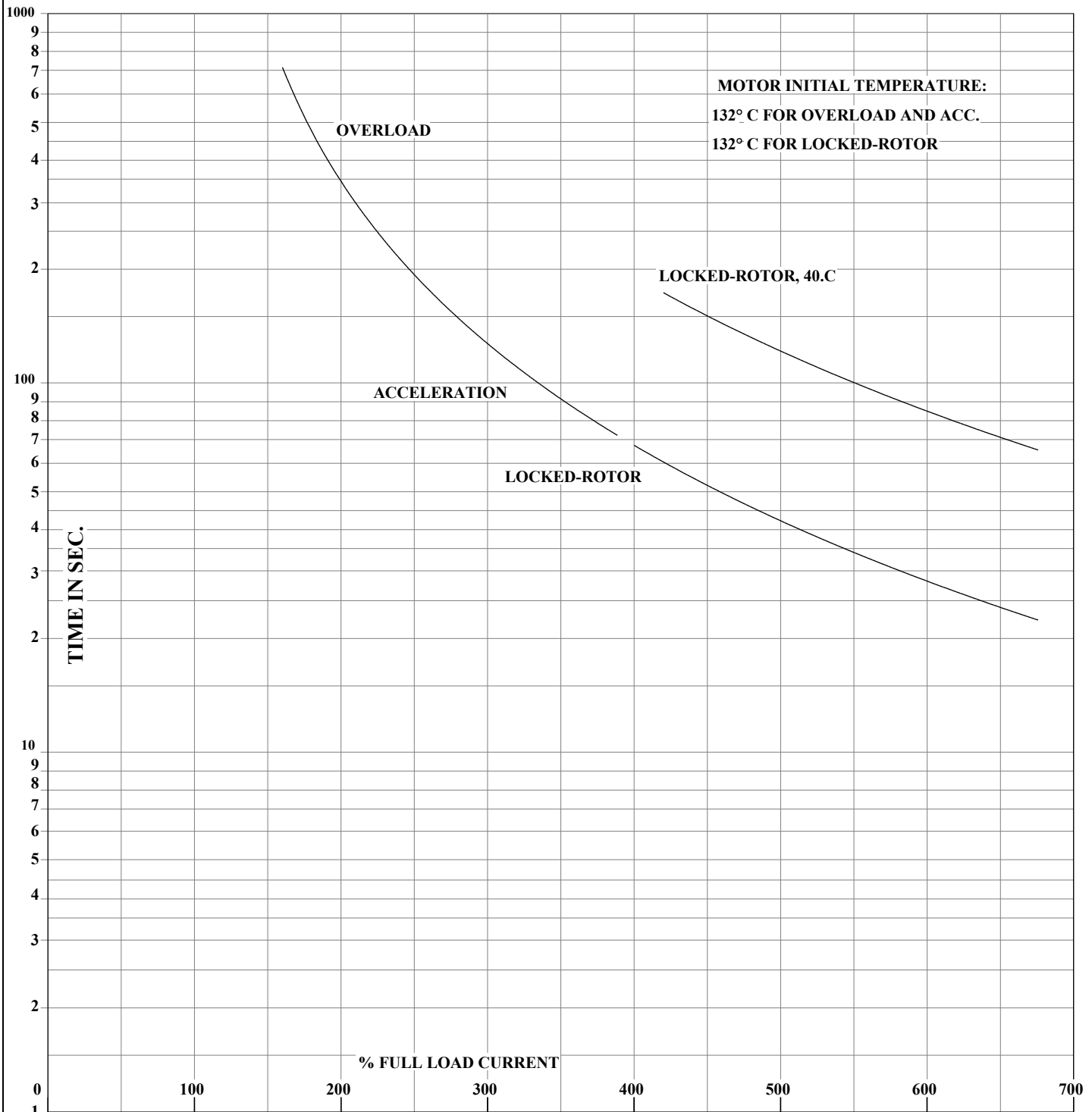
ENCLOSURE TEFC

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.



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AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

ISSUE DATE 02/03/25

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

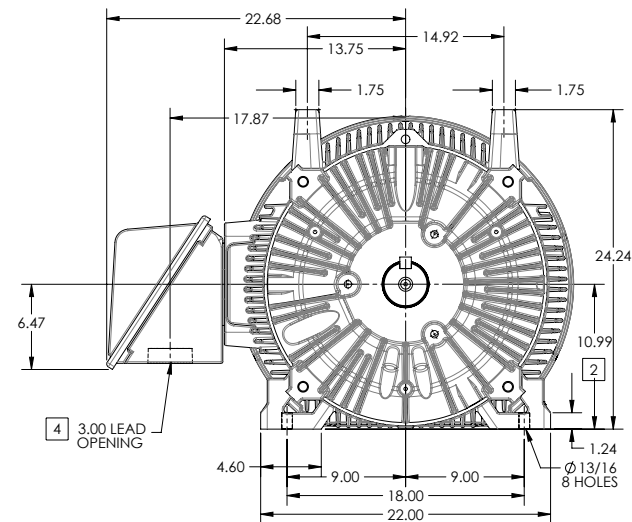
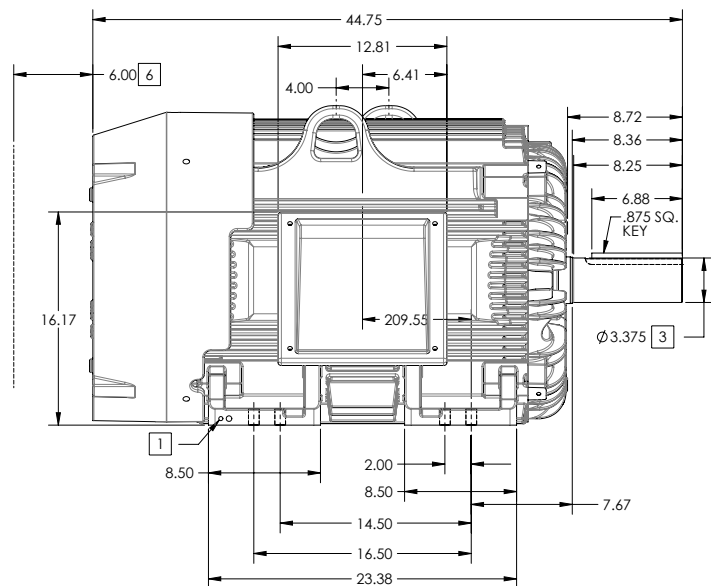
ENCLOSURE: TOTALLY ENCLOSED

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 +.00,-.06
3. VARIES +.00,-.001
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 .003" T.I.R. TO 5 INCH DIA.

[5] WEIGHT (LBS): 2130

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.

 SHEET NUMBER
1 OF 2

100-2272119

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09-22-56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001		REF:	
BY: RAGRA	Material:		

BALDOR

G445T444T STD - FOOTED - SIDE/CENTER C/B

617427-001

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

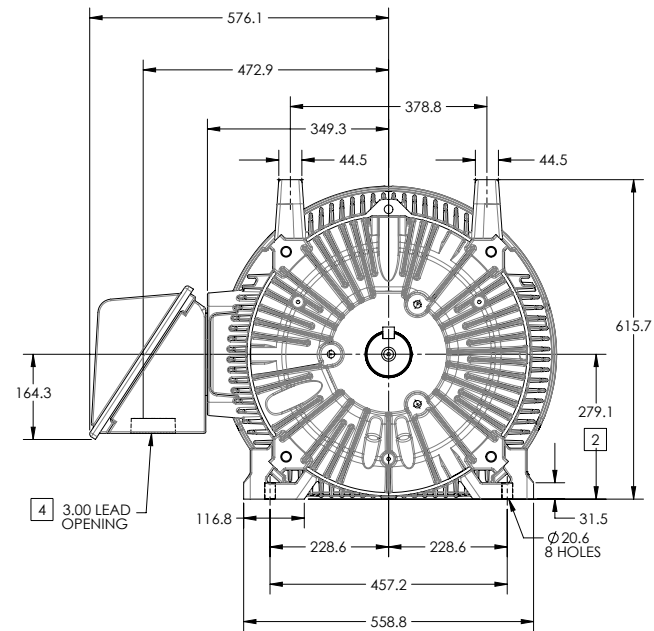
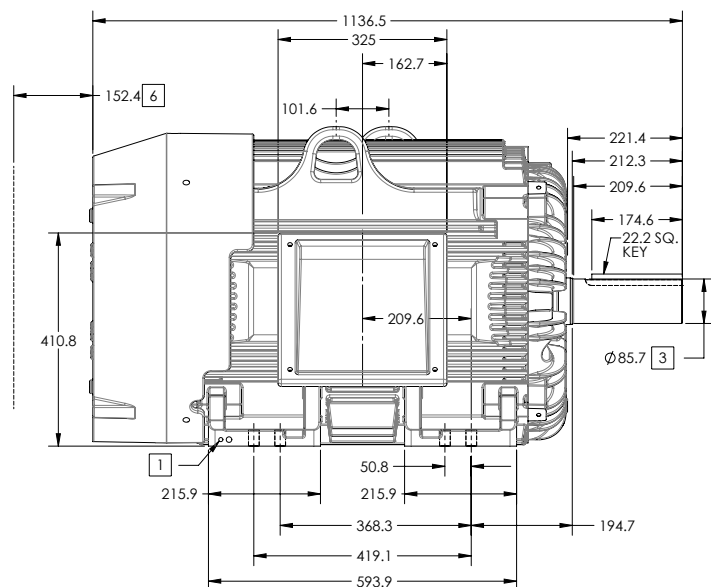
ENCLOSURE: TOTALLY ENCLOSED

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
MODEL NO. 617427-001	TDR: 00000857938
BY: RAGRA	REF:
Material:	

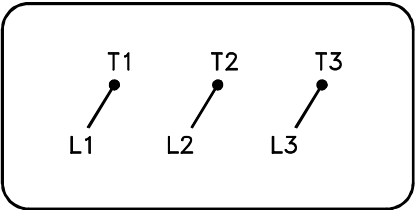
BALDOR

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