

ABB BALDOR RELIANCE III

Customer information packet

CECP4406T-4

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

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TC
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	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617427-013
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0 Y
Proprietary	False
Created date	02-07-2014

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	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

NP2496L	
EXXON POLYREX EM	

NP3238

CAT NO	CECP4406T-4			SPEC NO.		A44-5421-1778					
HP	150	AMPS	169	VOLTS		460	DESIGN	B			
FRAME	445TC	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	
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							CUSTOMER INFORMATION PACKET							CECP4406T-4 - 150HP, 1785RPM, 3PH, 60HZ, 445TC, TEFC, F1																																		
S/O			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 418F43053AE

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

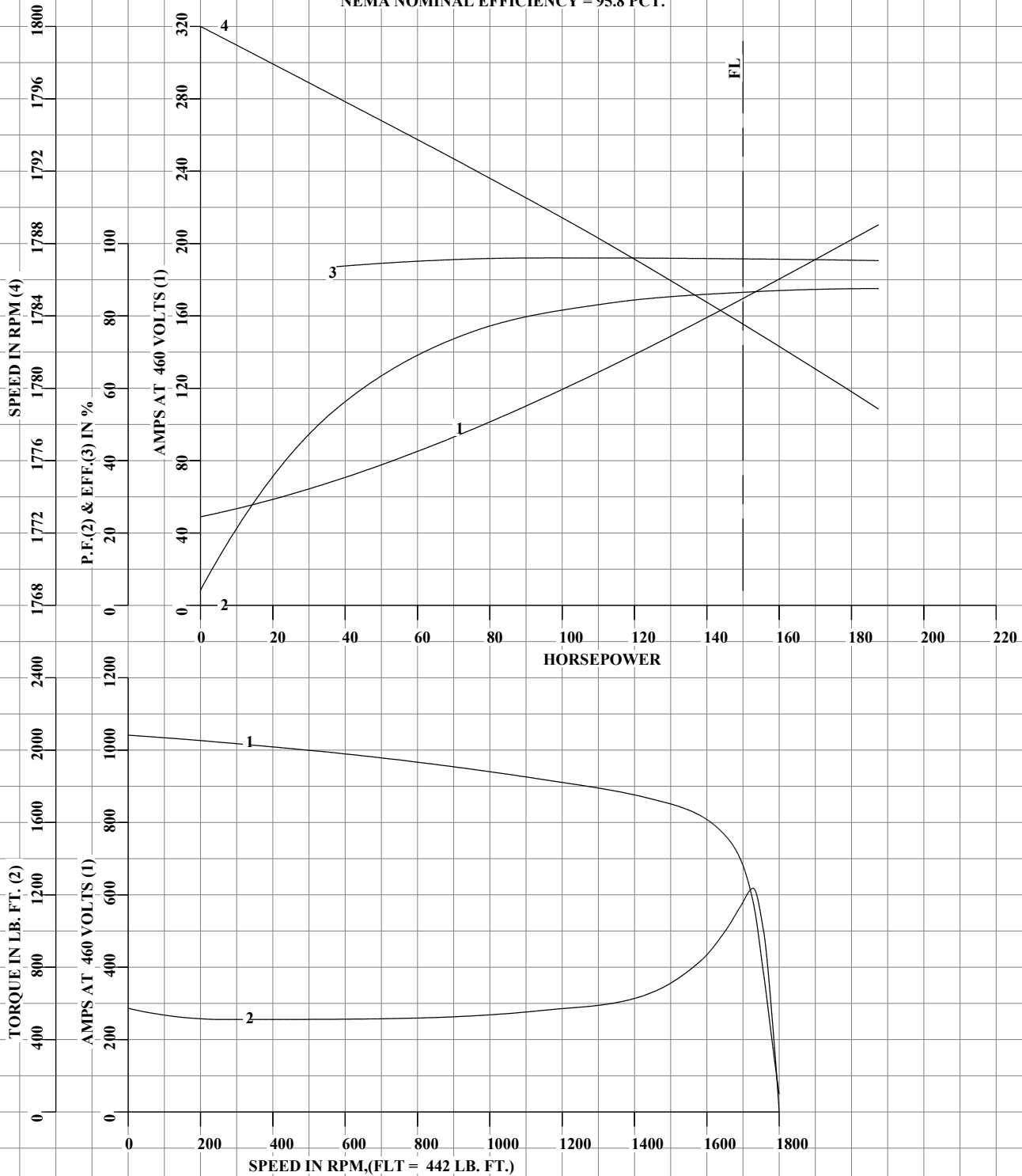
STATOR RES. @ 25°C .0298

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

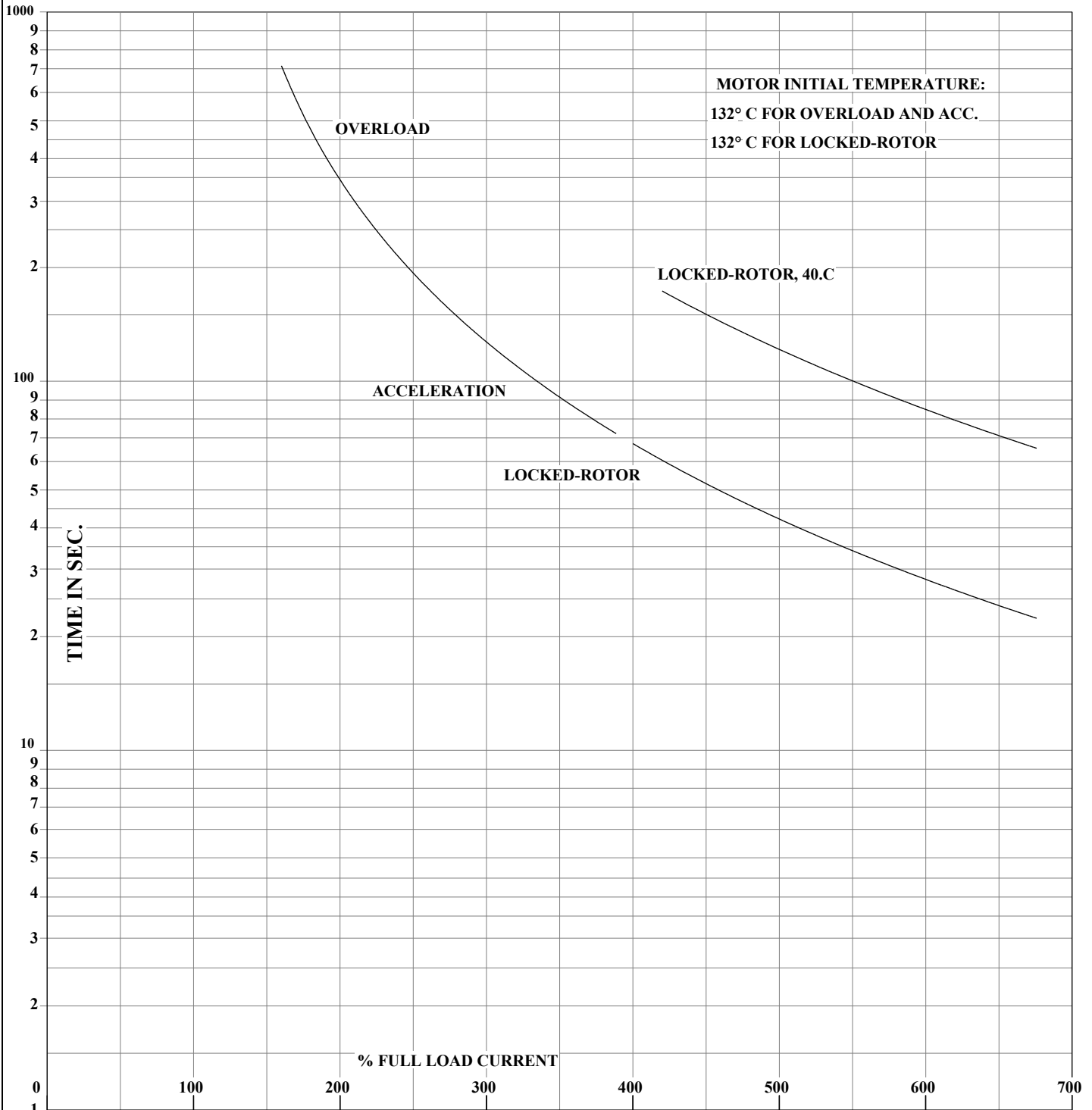
ISSUE DATE 02/03/25

FRAME 445T
HP 150
TYPE P
PHASE / HERTZ 3/60

RPM 1785
VOLTS 460
AMPS 169
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER F
ENCLOSURE TEFC
E/S 498808

ROTOR 418F43053AE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0298
OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

ISSUE DATE 02/03/25

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

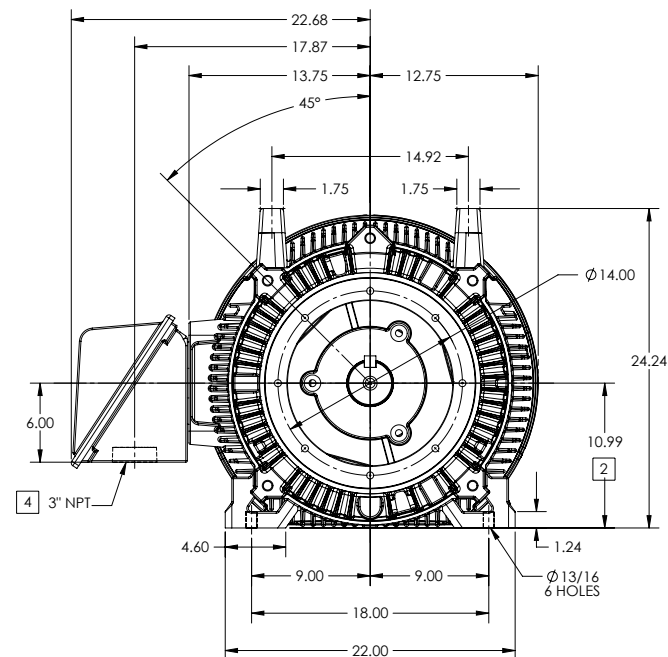
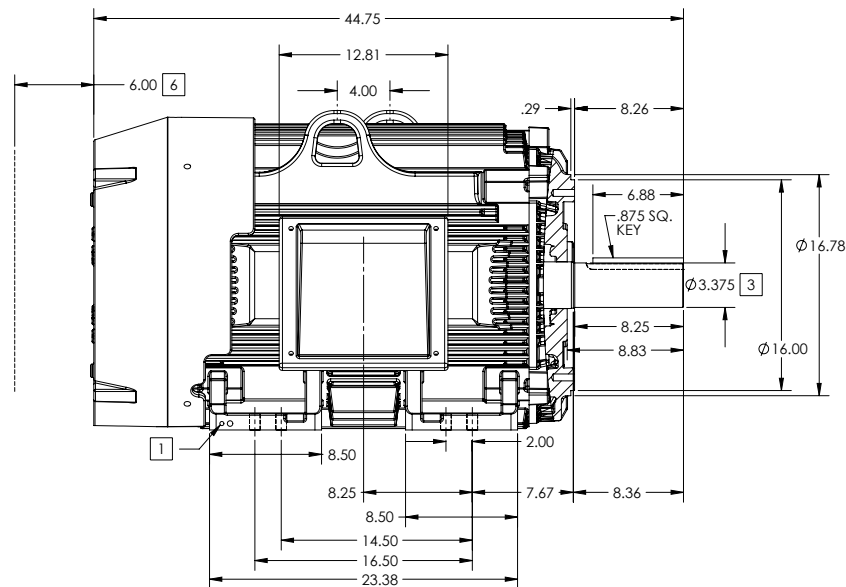
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445TC ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT, NEMA "C" FACE

INCLUDES 444TC 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. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
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.

[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

617427-013

REV. DESC: INITIAL RELEASE	VERSION: 00	REVISED: 11/00/20 07/23/2012	TDR: 000000749386
MODEL NO. 617427-013	REF:		
BY: MGHWC	Material:		

BALDOR

G445TC/444TC STD - FOOTED - SIDE/CENTER C/B

617427-013

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

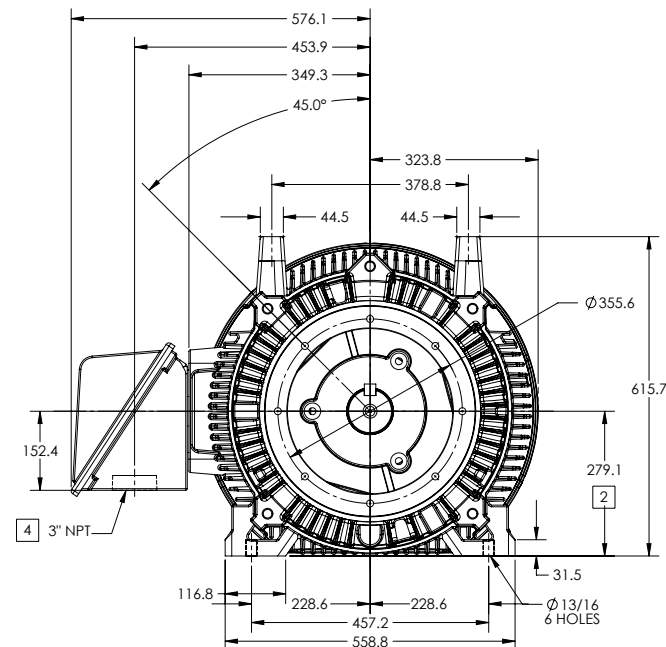
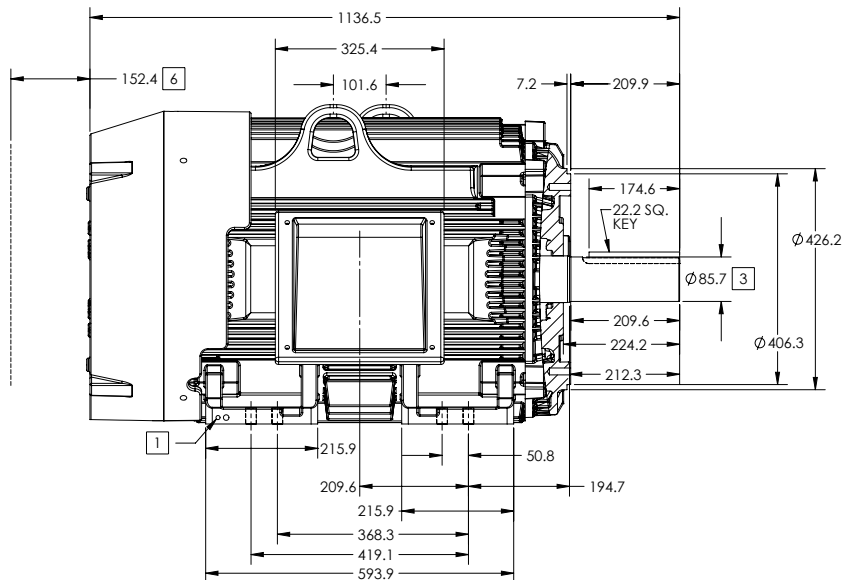
ENCLOSURE: TOTALLY ENCLOSED

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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 .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

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SHEET NUMBER
2 OF 2

617427-013

REV. DESC: INITIAL RELEASE	VERSION: 00	REVISED: 11/00/20 07/23/2012	TDR: 000000749386
MODEL NO. 617427-013	BY: MGHWC	Material:	REF:

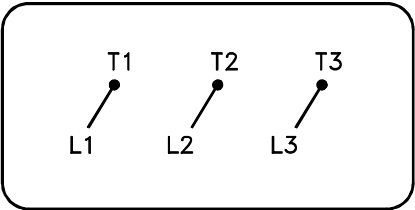
BALDOR

G445TC/444TC STD - FOOTED - SIDE/CENTER C/B

617427-013

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