

ABB BALDOR RELIANCE III

Customer information packet

CPX441546T

150//125HP, 1785//1485RPM, 3PH, 60//50HZ, 44

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	TEFC
Frame	445T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
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 CSA UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
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	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617426-350
Eff. date	01-07-2026
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	02-13-2019

KVA Code	F
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.97 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	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	E F G	
OPERATING TEMP CODE	T3C	

000901002AAA	
SUIT @ 55C AMB AT 1.00 SF AT S	INEWAVE

NP3140L

SPEC NO.	A44-9214-3335			CAT.NO.		CPX441546T				FRAME	445T
HP	150	VOLTS	460	PHASE		3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	169	HZ		60	AMB	40	SF	1.00	
DRIVE END BEARING	90BC03J30X			DUTY	CONT	INSUL.CLASS			F		
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC	CODE	F				
SF	1.15	WK2	51.1	MAG CUR		48.9	RPM MAX		3600		
CT HZ	10-60	VT HZ	0-60	CHP HZ		60-90	NEMA-NOM-EFF			95.8	
	IP66										
SER.NO.				MOTOR WEIGHT							

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET		CPX441546T - 150//125HP, 1785//1485RPM, 3PH, 60//50HZ, 44		
	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.						
ABB		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 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

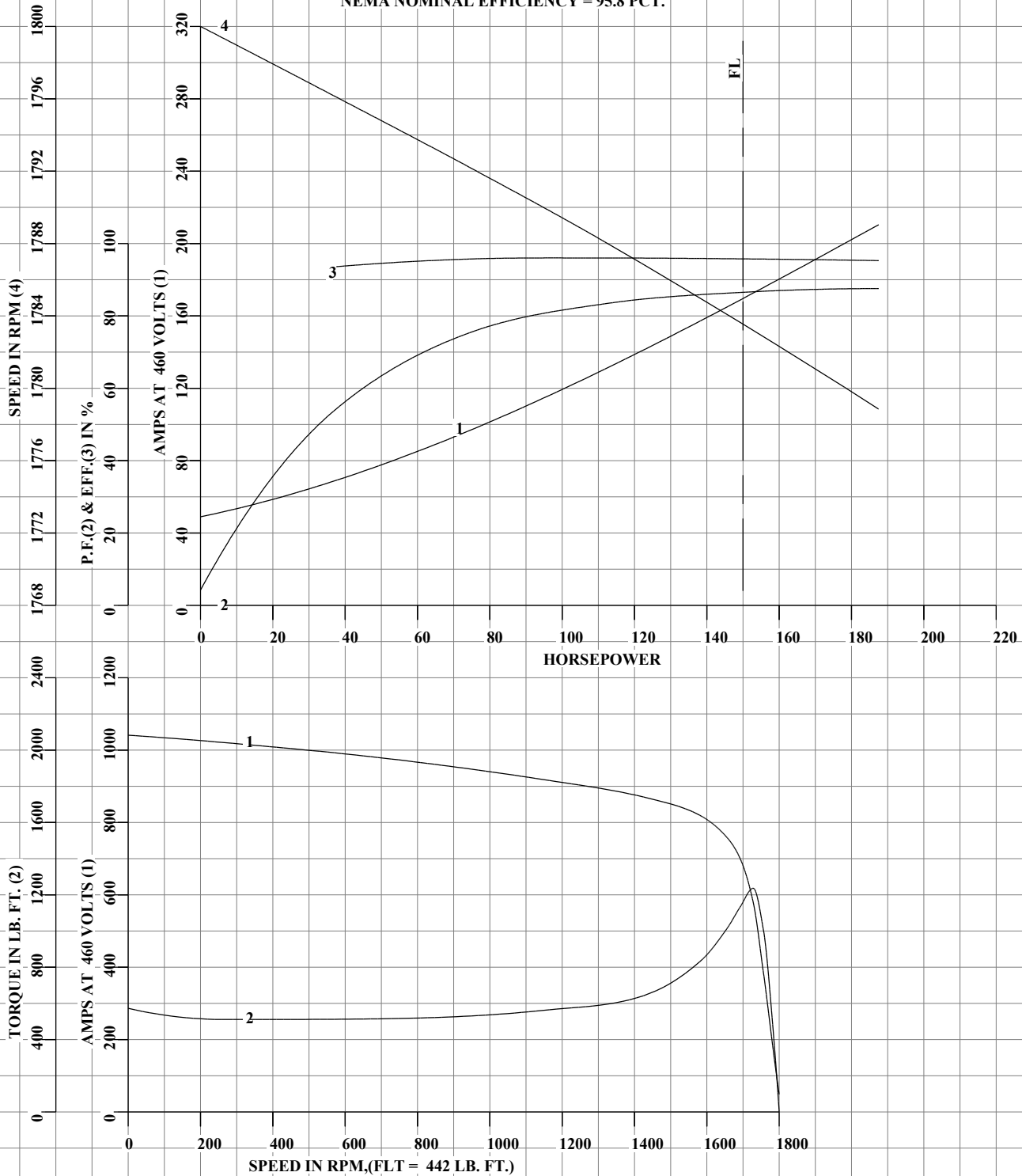
STATOR RES. @ 25°C .0298

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

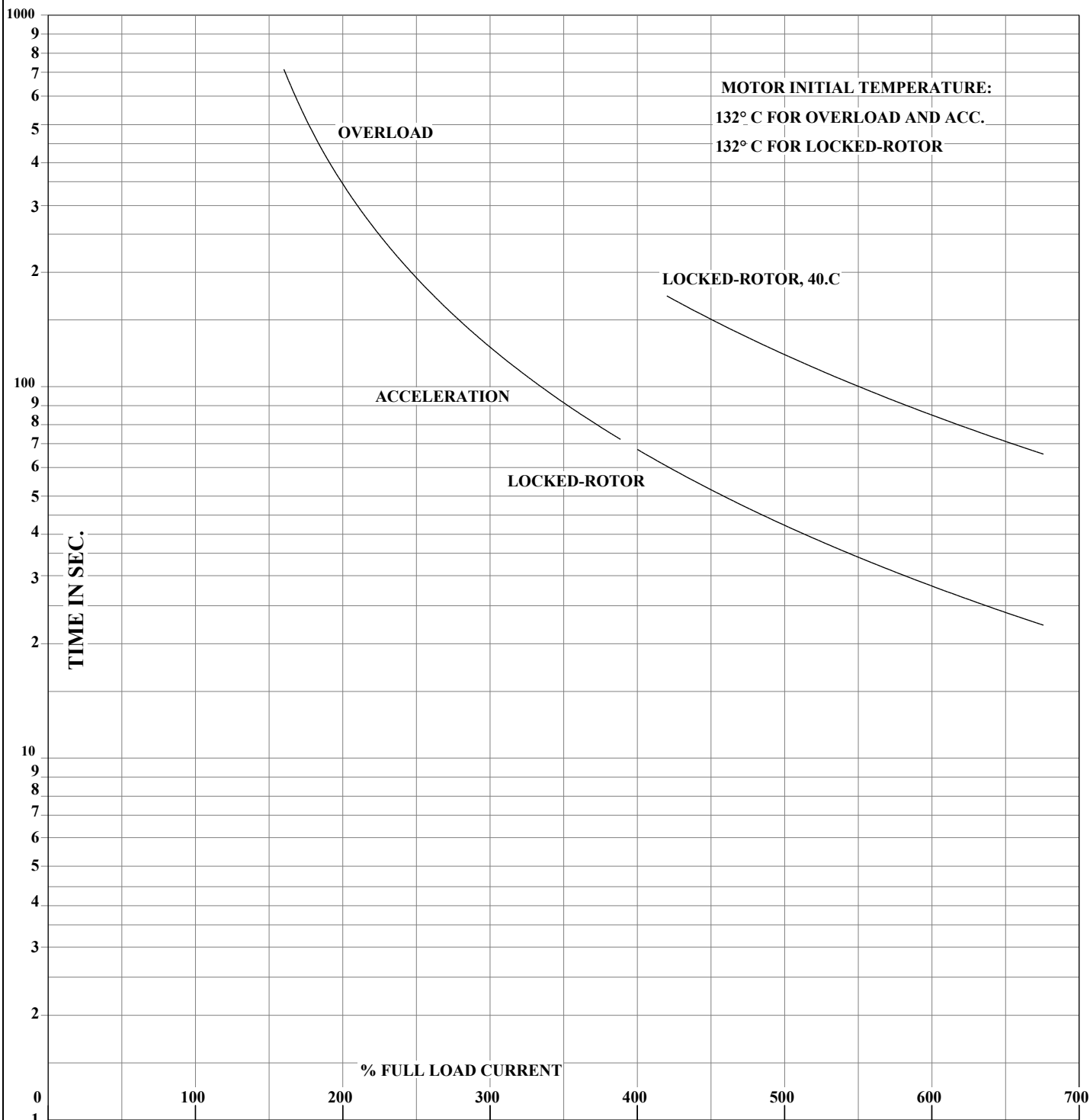
ENCLOSURE TEFC

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

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

617426-350

ENCLOSURE: UL LISTED MOTOR

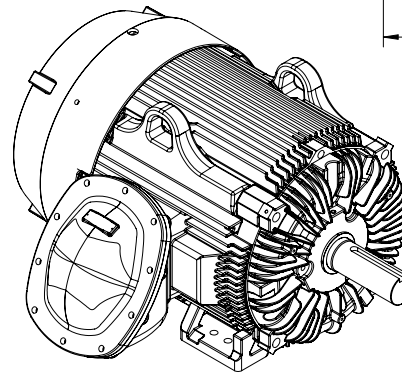
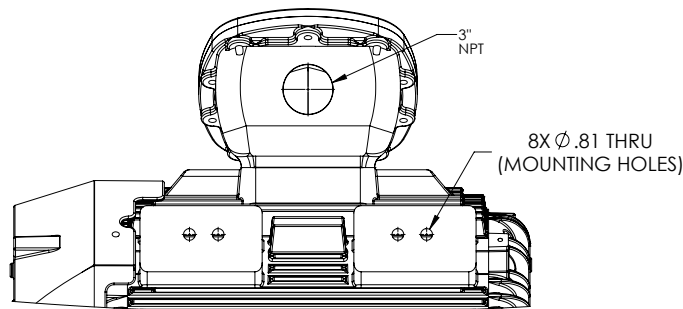
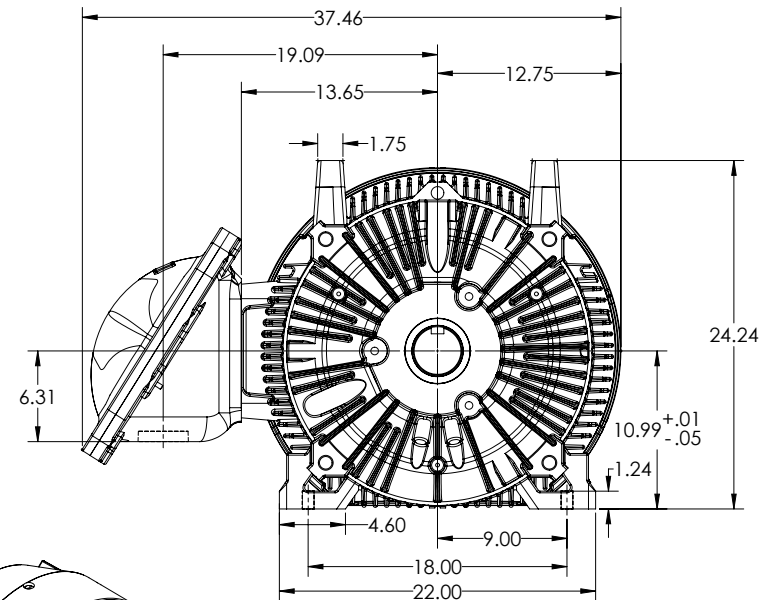
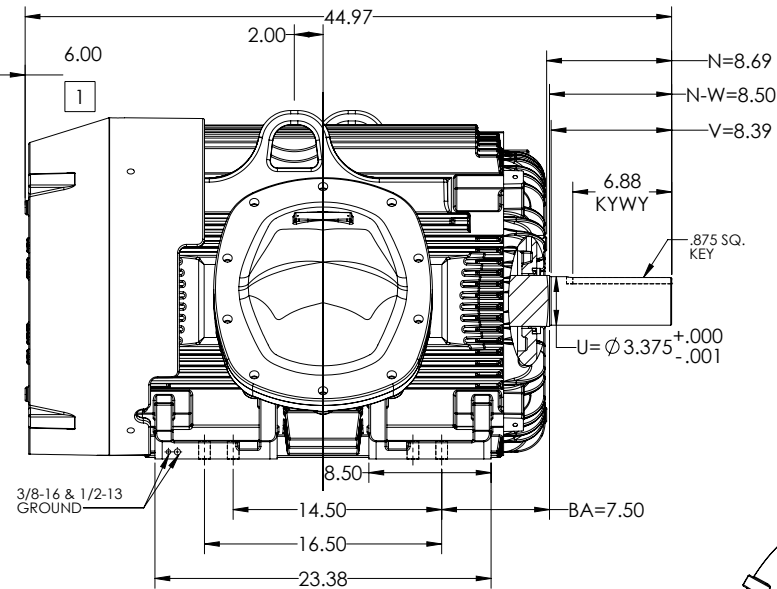
MOUNTING: F-1 FOOT

G444T/G445T FRAME MOUNTING HOLES

CLASS 1: GR. C&D, CLASS 2: GR. E,F,&G

ENCLOSURE ENHANCEMENT: SEVERE DUTY

COOLING: FAN COOLED



DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2150. WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
1 OF 1

1 OBSTRUCTION MUST NO ENCROACH ON AIR INLET MOTOR.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: NEW	VERSION: 00	REVISED: 02/20/28 02/12/2019	TDR: 000001098250
MODEL NO. 617426-350	REF:		
BY: RAGRS1	Material:		

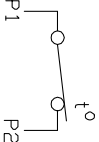
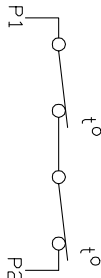
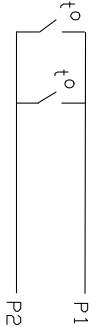
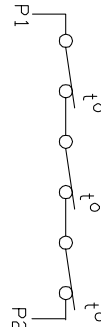
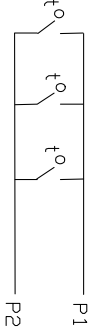
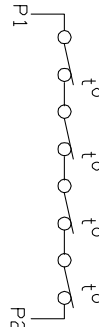
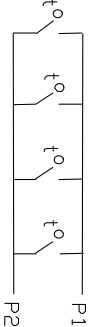
BALDOR

G445/444T TEFC XP F1 FT-CL-CB - CL.1 GR.C&D CL.2 GR.E,F&G

617426-350

CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS _____ @ _____ °C		
FIGURE NUMBER _____		
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3.0	30
220-240	1.5	15
440-480	0.75	7.5
550-600	0.60	6.0

THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1 	FIGURE 4 
FIGURE 2 	FIGURE 5 
FIGURE 3 	FIGURE 6 
FIGURE 7 	FIGURE 8 

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

418174-006

418174-006

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

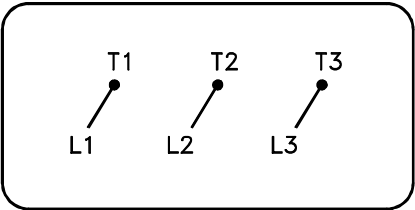
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

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