

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							CUSTOMER INFORMATION PACKET CPX441546T - 150//125HP, 1785//1485RPM, 3PH, 60//50HZ, 44						
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 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

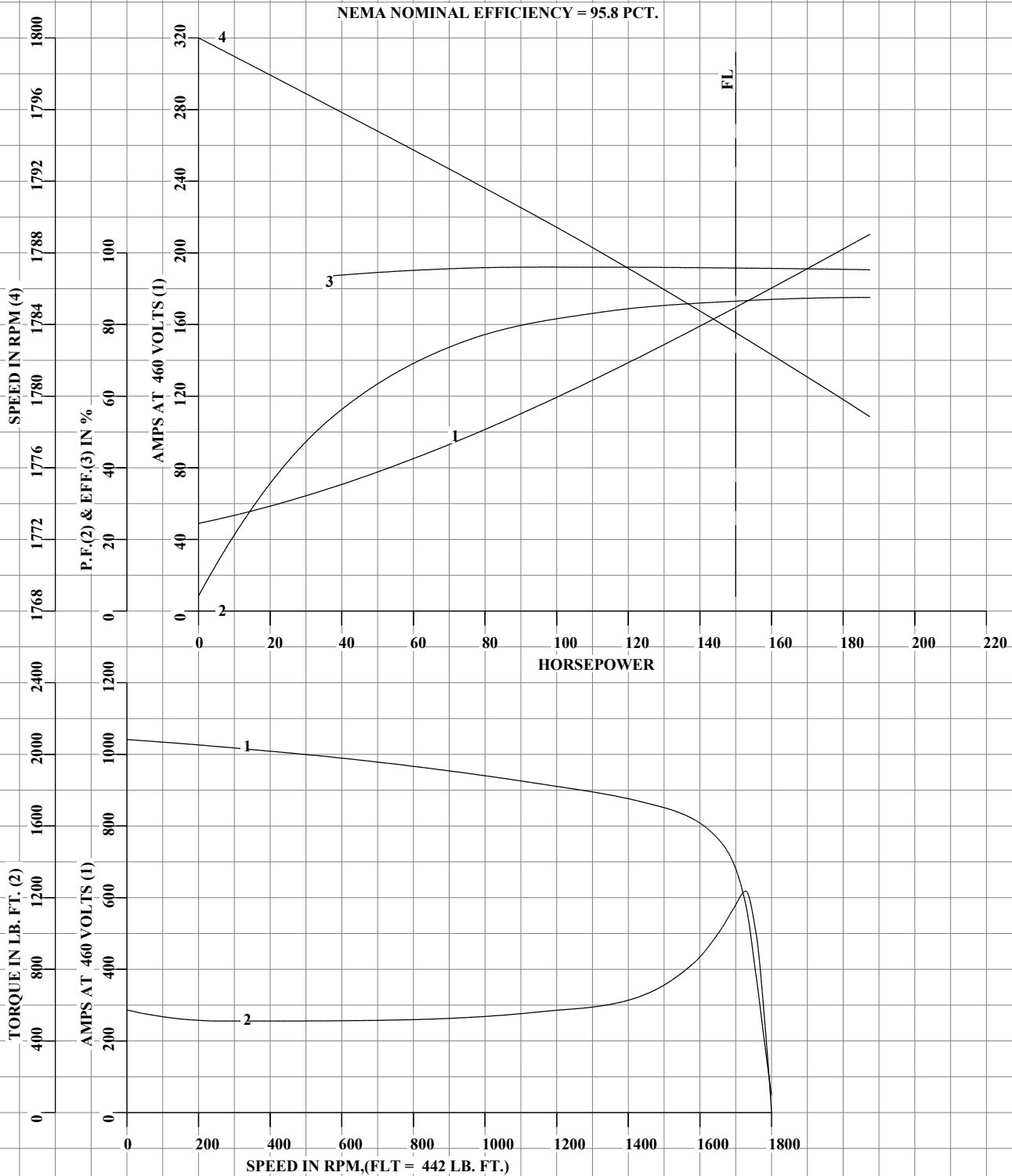
ENCLOSURE TEFC

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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DATA

A44WG3335-R001

ISSUE DATE 02/03/25

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S.F. 1:15

ROTOR 418143053AE

HP 150

VOLTS 460

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DUTY CONT

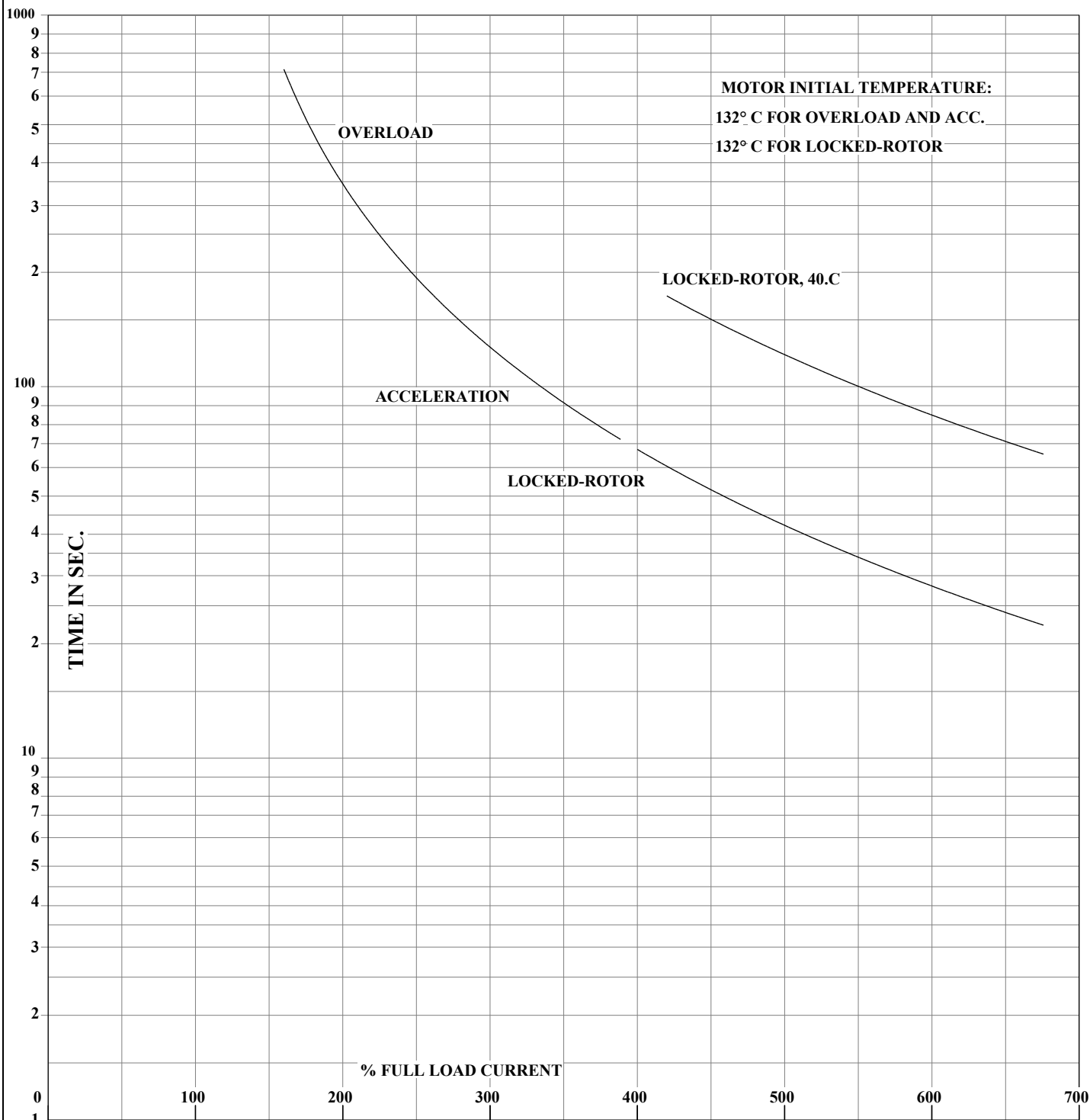
ENCLOSURE TEFC

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.

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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

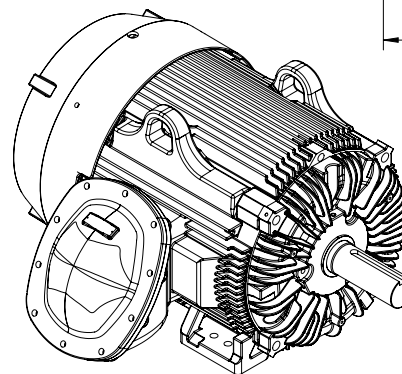
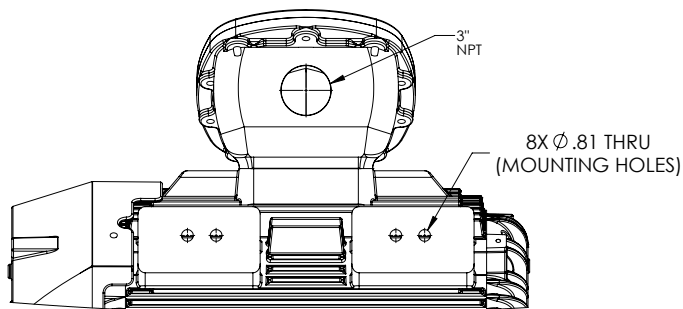
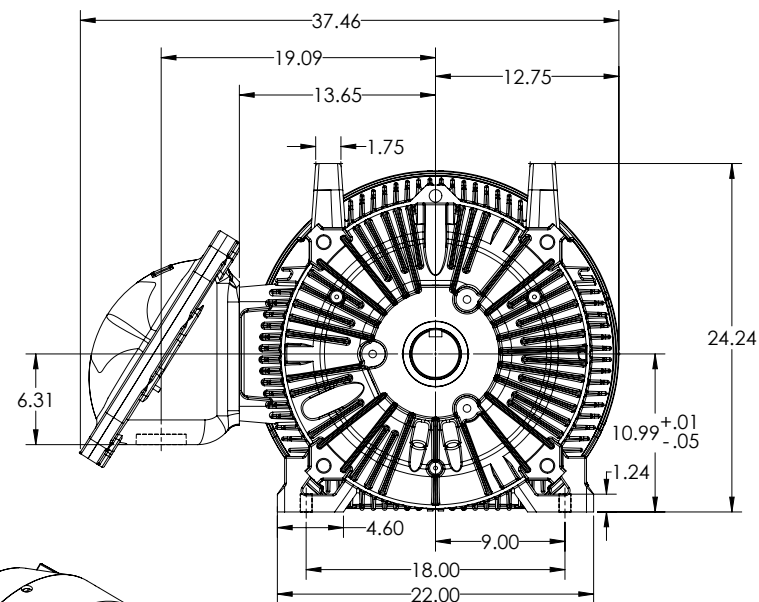
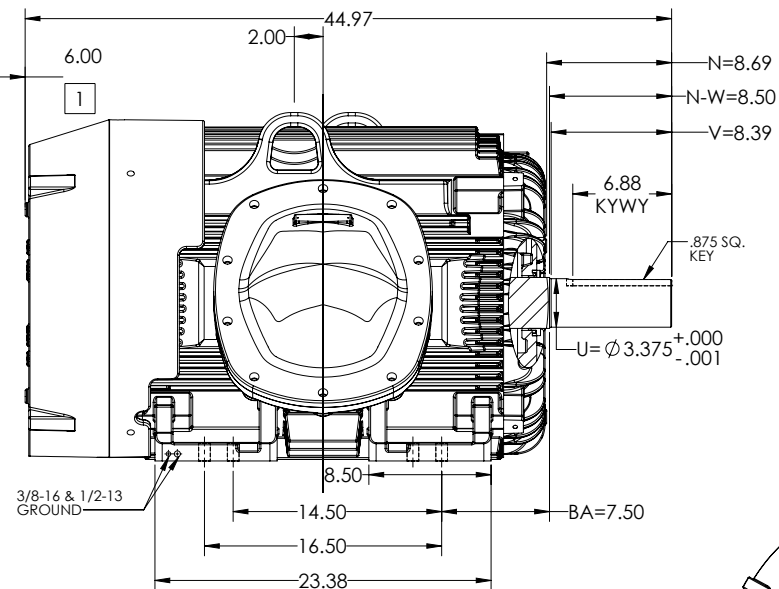
MOUNTING: F-1 FOOT

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
051-9CZ L19

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:		

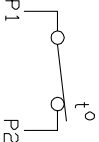
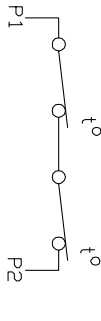
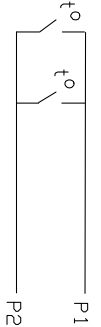
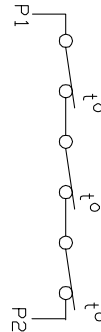
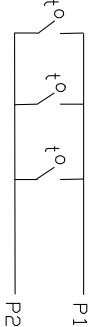
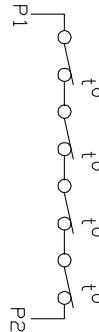
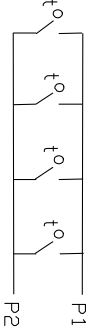
BALDOR

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: -		

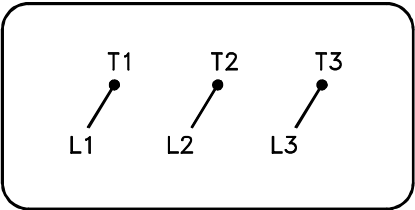
BALDOR

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