

ABB BALDOR RELIANCE III

Customer information packet

CPX44166T

100//75HP, 1188//990RPM, 3PH, 60//50HZ, 444T

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

Division - Division I

Specifications

Enclosure	TEFC
Frame	444T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 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	6-60
Current @ Voltage	232.000 A @ 230.0 V 116.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	116.0 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2115
Layout	617426-350
Eff. date	05-06-2024
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	02-13-2019

Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.97 IN
Power Factor	85
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	1188 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.	A44-8611-2115				CAT.NO.	CPX44166T						FRAME	444T
HP	100	VOLTS	230/460			PHASE	3	DESIGN	B	TYPE	P		
RPM	1188	AMPS	232/116			HZ	60	AMB	40	SF	1.00		
DRIVE END BEARING	90BC03J30X			DUTY	CONT	INSUL.CLASS			F				
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC	CODE	G						
SF	1.15	WK2	56.4	MAG CUR	34.9			RPM MAX	3000				
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90		NEMA-NOM-EFF			95			
	IP66												
SER.NO.					MOTOR WEIGHT								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1188	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
232/116	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
497223	418143080FE	---	---	.0139/.0557		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	34.9	1200	5.84	0	
1/4	25.0	45.1	1197	56.9	91.4	
2/4	50.0	64.6	1194	76.7	94.5	
3/4	75.0	89.0	1191	83.0	95.1	
4/4	100	116	1188	85.0	95.0	
5/4	125	144	1185	86.0	94.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	160	705	725	
PULL UP		240	140	620	700	
BREAKDOWN		1138	250	1106	390	
FULL LOAD		1188	100	442	116	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA NEMA NOM. EFF. 95.0 PCT.						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA A44WG2115-R007 ISSUE DATE 03/11/19		
		CK. BY	C. E. JAMISON			
		APP. BY	E. J. CHRISTIAN			
		DATE	10/08/18			

REL S.O.

RPM 1188

S.F. 1.15

ROTOR 418143080FE

FRAME 444T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 232/116

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

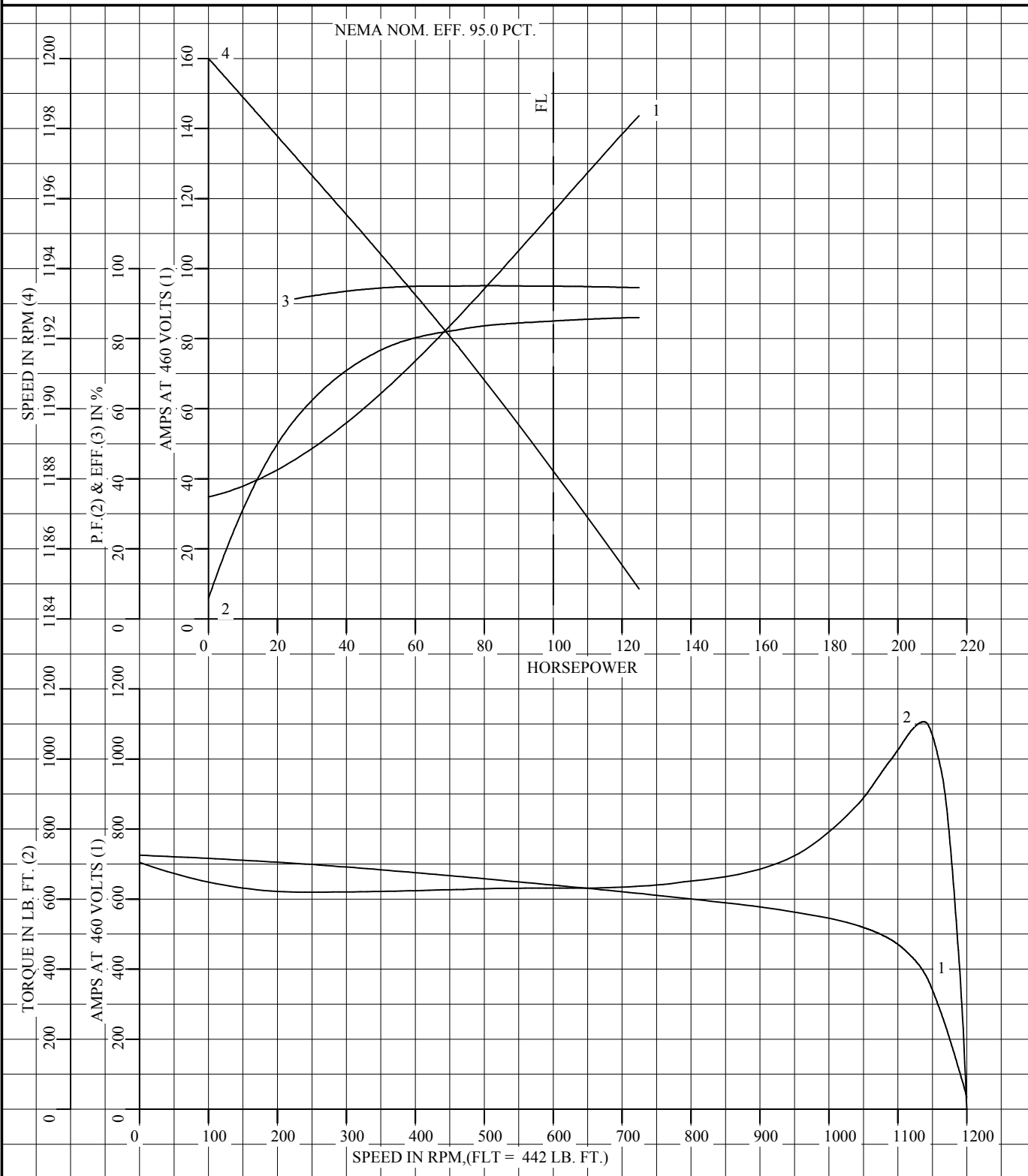
STATOR RES. @ 25 °C .0139/.0557

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497223

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

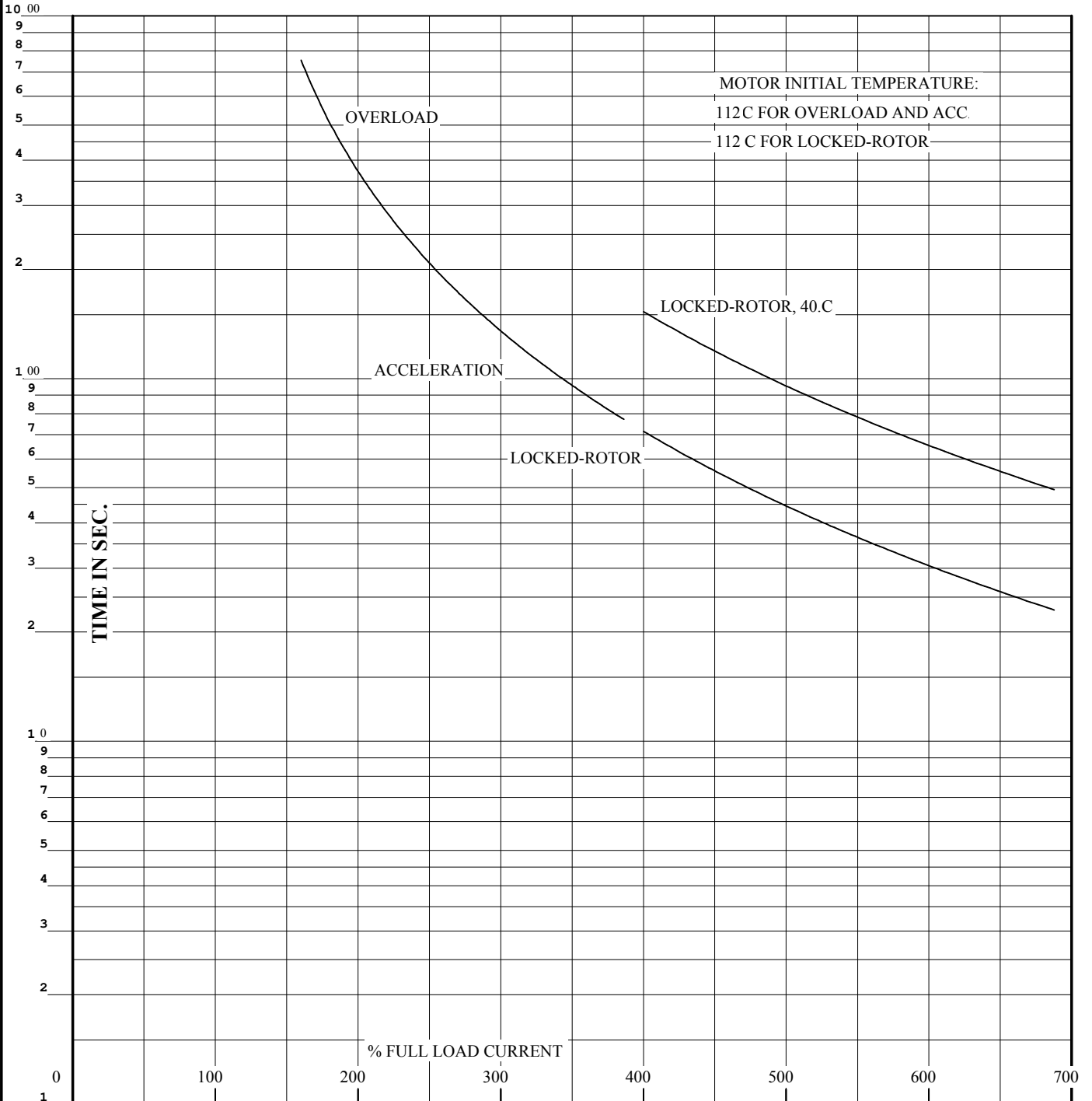
DR. BY W. L. SMITH
CK. BY C. E. JAMISON
APP. BY E. J. CHRISTIAN
DATE 10/08/18

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2115-R007

ISSUE DATE 03/11/19

REL. S.O.	RPM 1188	S.F. 1.15	ROTOR 418143080FE
FRAME 444T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100	AMPS 232/116	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0139/.0557
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 497223	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOM. EFF. 95.0 PCT.

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DR. BY	W.L. SMITH
CK. BY	C.E. JAMISON
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**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2115-R007
ISSUE DATE 03/11/19 Page 10 of 13

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

617426-350

ENCLOSURE: UL LISTED MOTOR

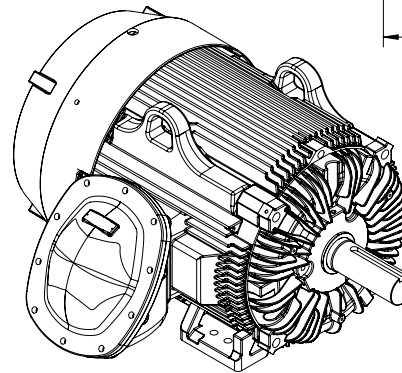
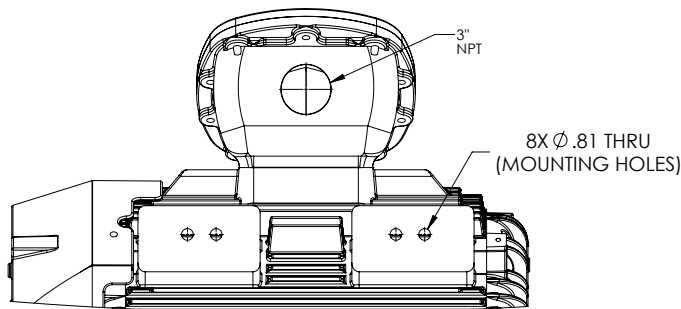
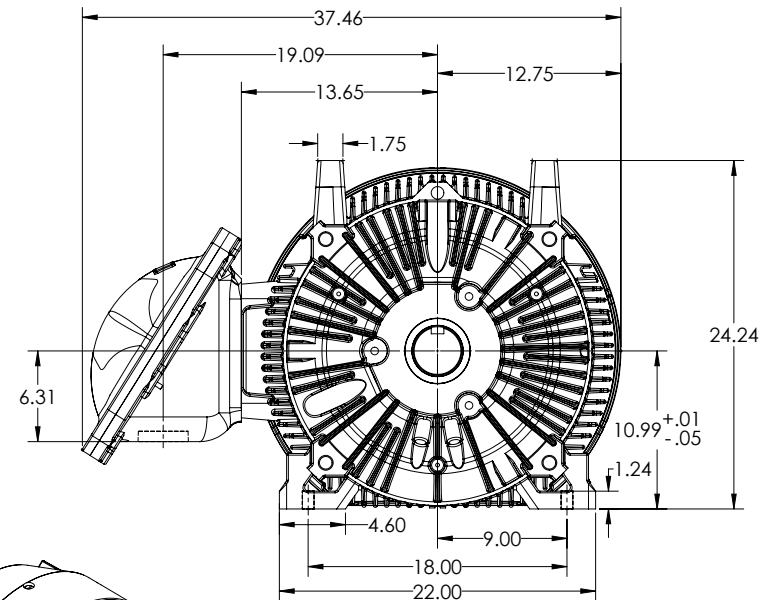
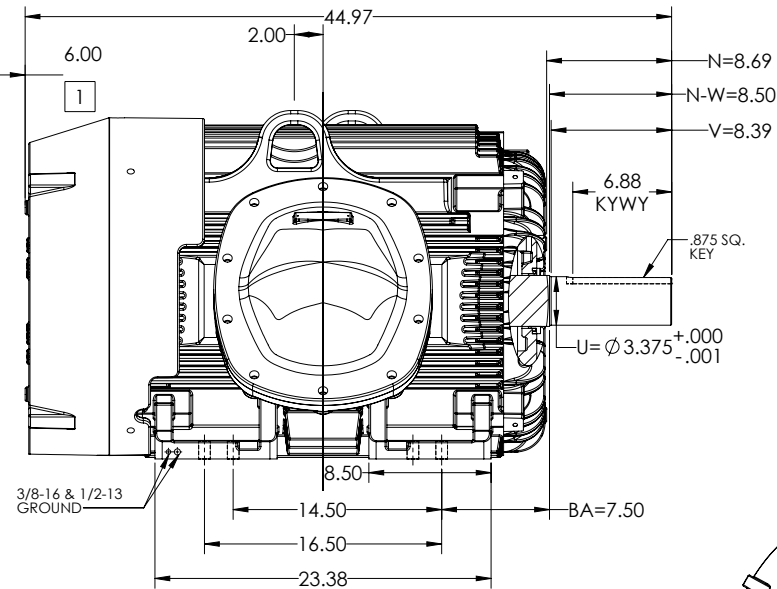
G444T/G445T FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: SEVERE DUTY

MOUNTING: F-1 FOOT

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

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:		

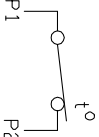
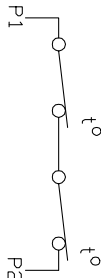
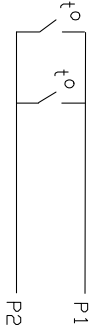
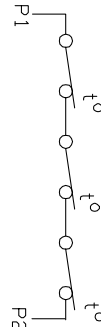
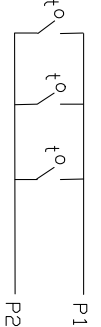
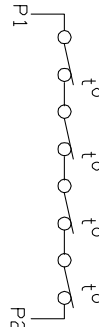
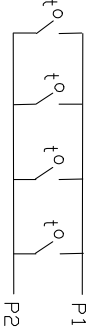
BALDOR

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: -		

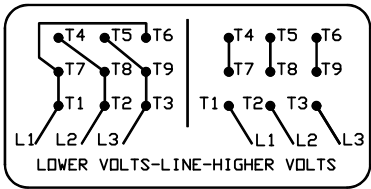
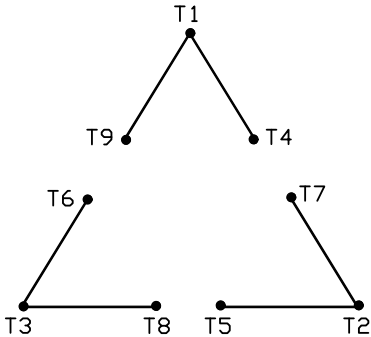
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS

REV. LTR: B

VERSION: 02

TDR: 000001285318

FILE: \RAG\00022\453

REVISED: 09:36:26 09/24/2026

BY: USJOSUL

MTL: -



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002