

ABB BALDOR RELIANCE III

Customer information packet

EM74254T-4

250//200HP, 1780//1480RPM, 3PH, 60//50HZ, 44

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

Division - Division I

Specifications

Enclosure	TEFC
Frame	449T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	250.000 HP @ 60 HZ 200.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	263.000 A @ 380.0 V 270.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	263.0 a

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A44WG3311
Layout	617426-166
Eff. date	03-10-2021
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	11-18-2015

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.47 IN
Power Factor	90
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1480 rpm 1780 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	F G X		
OPERATING TEMP CODE	T4		

NP2475L

CAT.NO.		SPEC NO.	A44-8034-3311				FRAME	449T
HP	250//200	PHASE	3	DESIGN	B	TYPE	P	
RPM	1780//1480	HZ	60//50	AMB	40	SF	1.00	
VOLTS	460//380	DUTY	CONT	INSUL.CLASS	F			
AMPS	270//263	ENCL	TEFC	CODE	G			
DRIVE END BEARING	90BC03J30X	NEMA-NOM-EFFICIENCY	96.2					
OPP D.E. BEARING	90BC03J30X							
SER.NO.								
	CL I,ZONE 1,GR IIA IIB,T4					MOTOR WEIGHT		

CUSTOMER INFORMATION PACKET		EM74254T-4 - 250HP, 1780//1480RPM, 3PH, 60//50HZ, 44				
FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS	
449T	250	P	3/60	1780	460	

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
270	CONT	40/F	1.00	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
833106	418143-50BE	---	---	.0128

PERFORMANCE


LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	55.2	1800	5.87	0
1/4	62.6	83.9	1796	74.1	94.2
2/4	125	138	1792	88.3	96.2
3/4	187	201	1788	90.4	96.4
4/4	250	269	1783	90.2	96.2
5/4	312	340	1778	89.8	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	171	1256	1825
PULL UP	920	145	1069	1631
BREAKDOWN	1729	267	1967	966
FULL LOAD	1783	100	736	269

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

TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

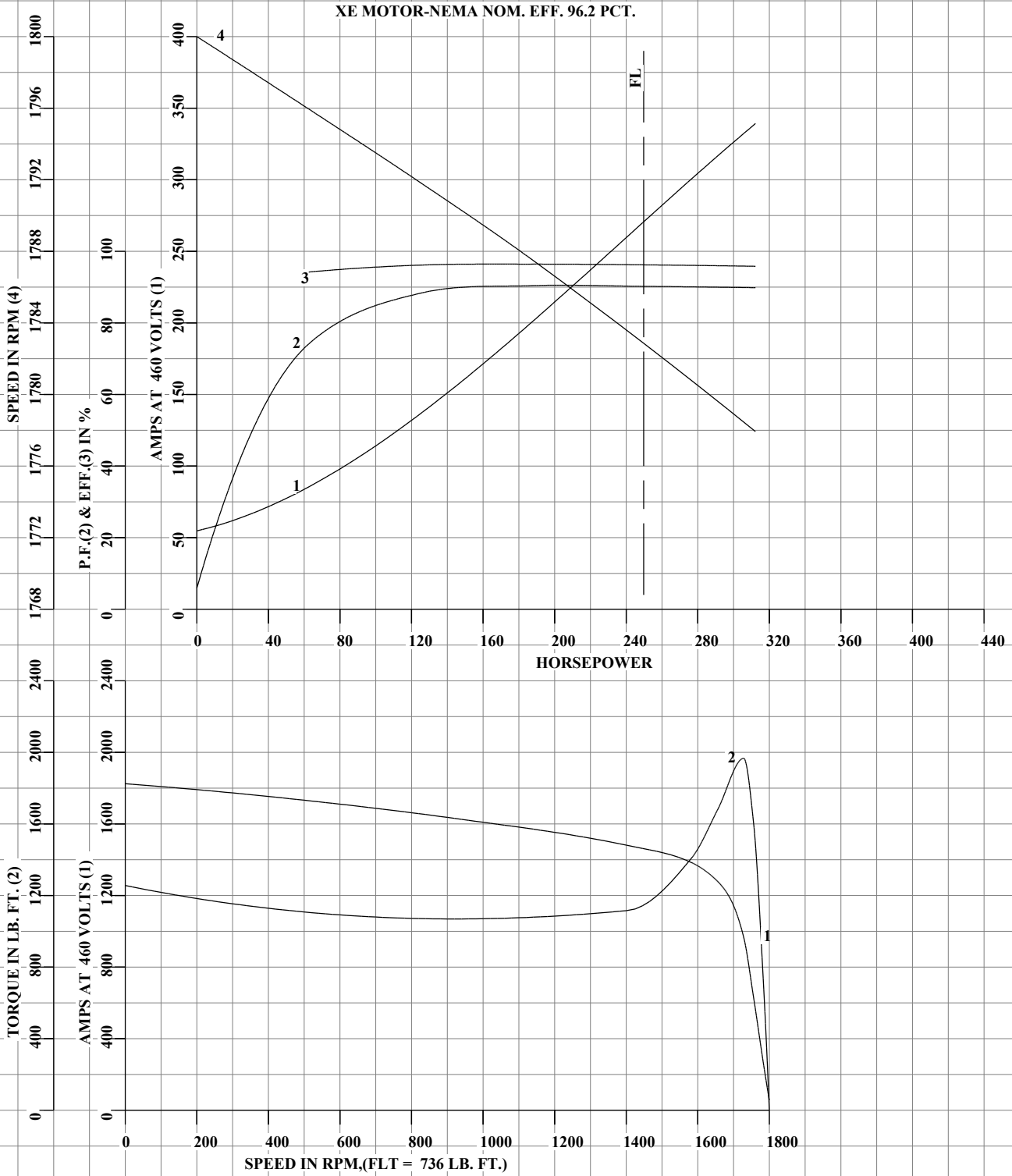
	DRAWN BY: <u>G. R. WEBB</u>	AC MOTOR PERFORMANCE DATA	A44WG3311-R011
	CHECKED BY: <u>W. L. SMITH</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>10/26/15</u>		

FRAME 449T
HP 250
TYPE P
PHASE / HERTZ 3/60

RPM 1780
VOLTS 460
AMPS 270
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.00
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 833106

ROTOR 418143-50BE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0128
OHMS (BETWEEN LINES)



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



DRAWN BY: G. R. WEBB
 CHECKED BY: W. L. SMITH
 APPROVED BY: E.J. CHRISTIAN
 DATE: 10/26/15

AC MOTOR
PERFORMANCE
DATA

A44WG3311-R011

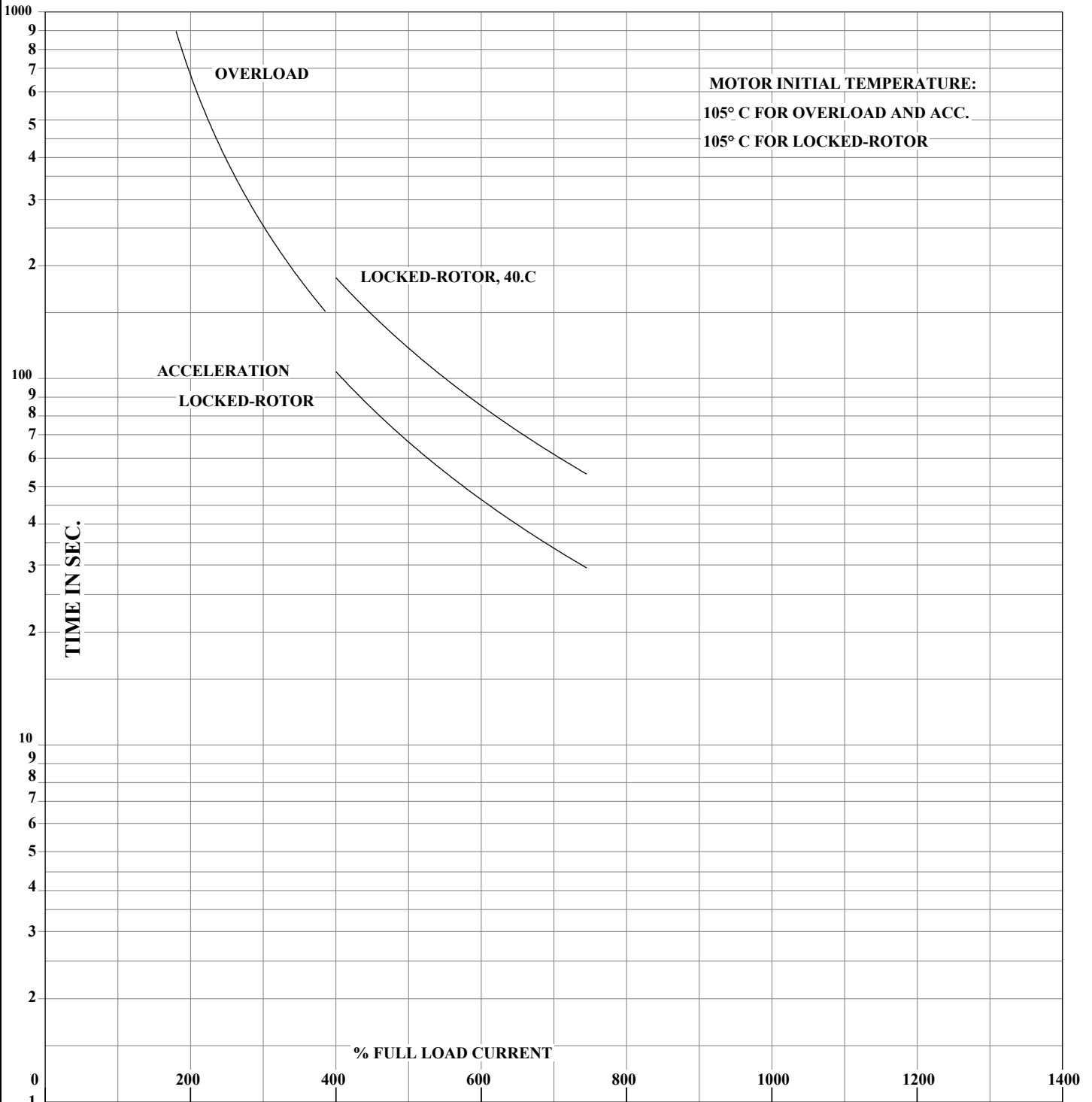
ISSUE DATE 02/11/19

FRAME 449T
HP 250
TYPE P
PHASE / HERTZ 3/60

RPM 1780
VOLTS 460
AMPS 270
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.00
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 833106

ROTOR 48143-50BE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0128
OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

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



DRAWN BY: G. R. WEBB
CHECKED BY: W. L. SMITH
APPROVED BY: E.J. CHRISTIAN
DATE: 10/26/15

AC MOTOR
PERFORMANCE
DATA

A44WG3311-R011

ISSUE DATE 02/11/19

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

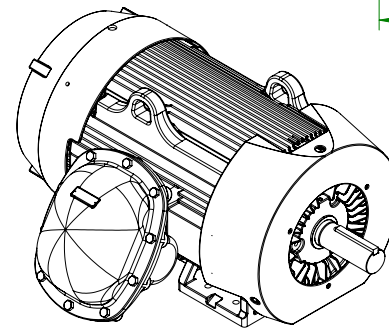
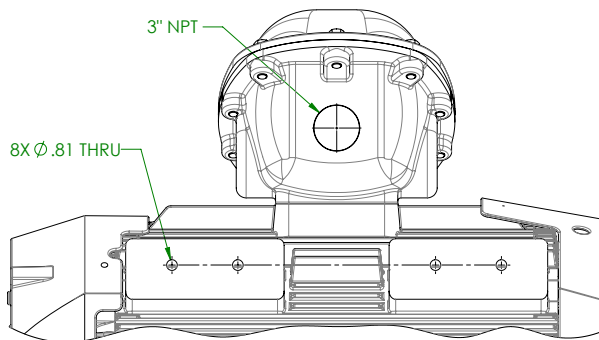
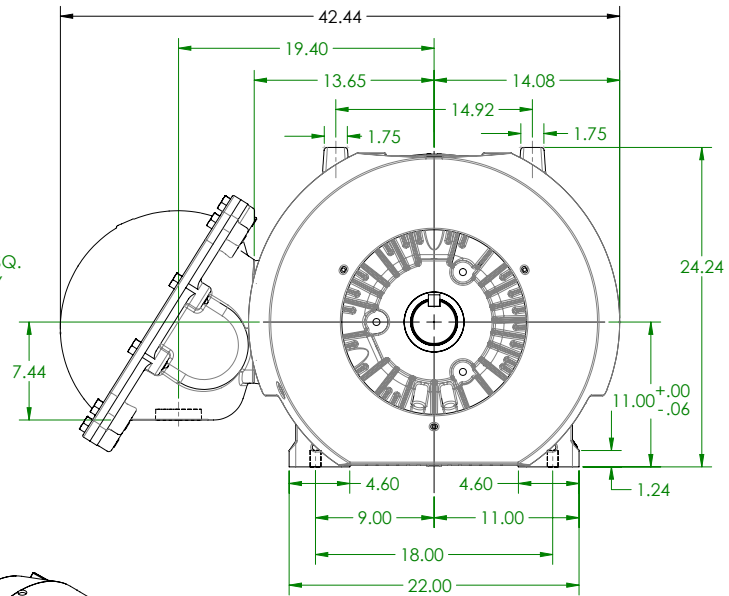
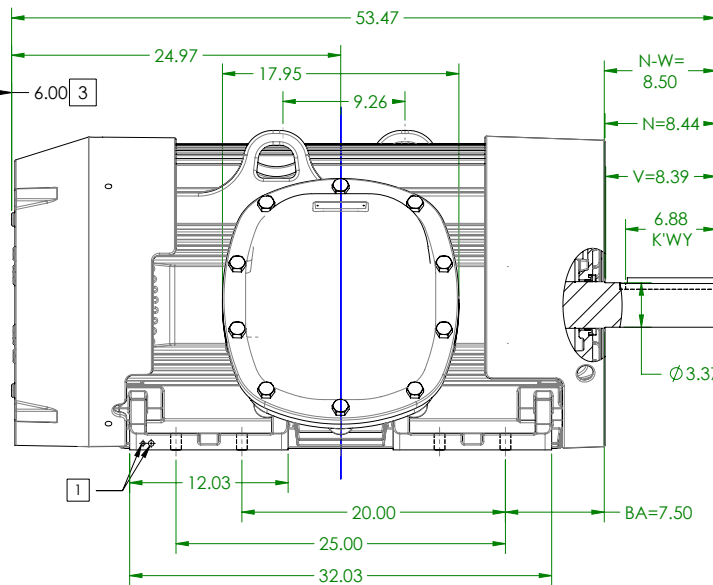
COOLING: FAN COOLED

ENCLOSURE: UL LISTED MOTOR

FRAME G447T ABOVE NEMA RATINGS (1800 RPM MAX)

MOUNTING: FOOT, F-1

INCLUDES G449T FRAME MOUNTING HOLES



- 1 GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
- 2 WEIGHT (LBS): 3180
DIMENSIONS ARE IN INCHES
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
- 3 MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
OBSTRUCTION MUST NO ENCROACH ON AIR INLET

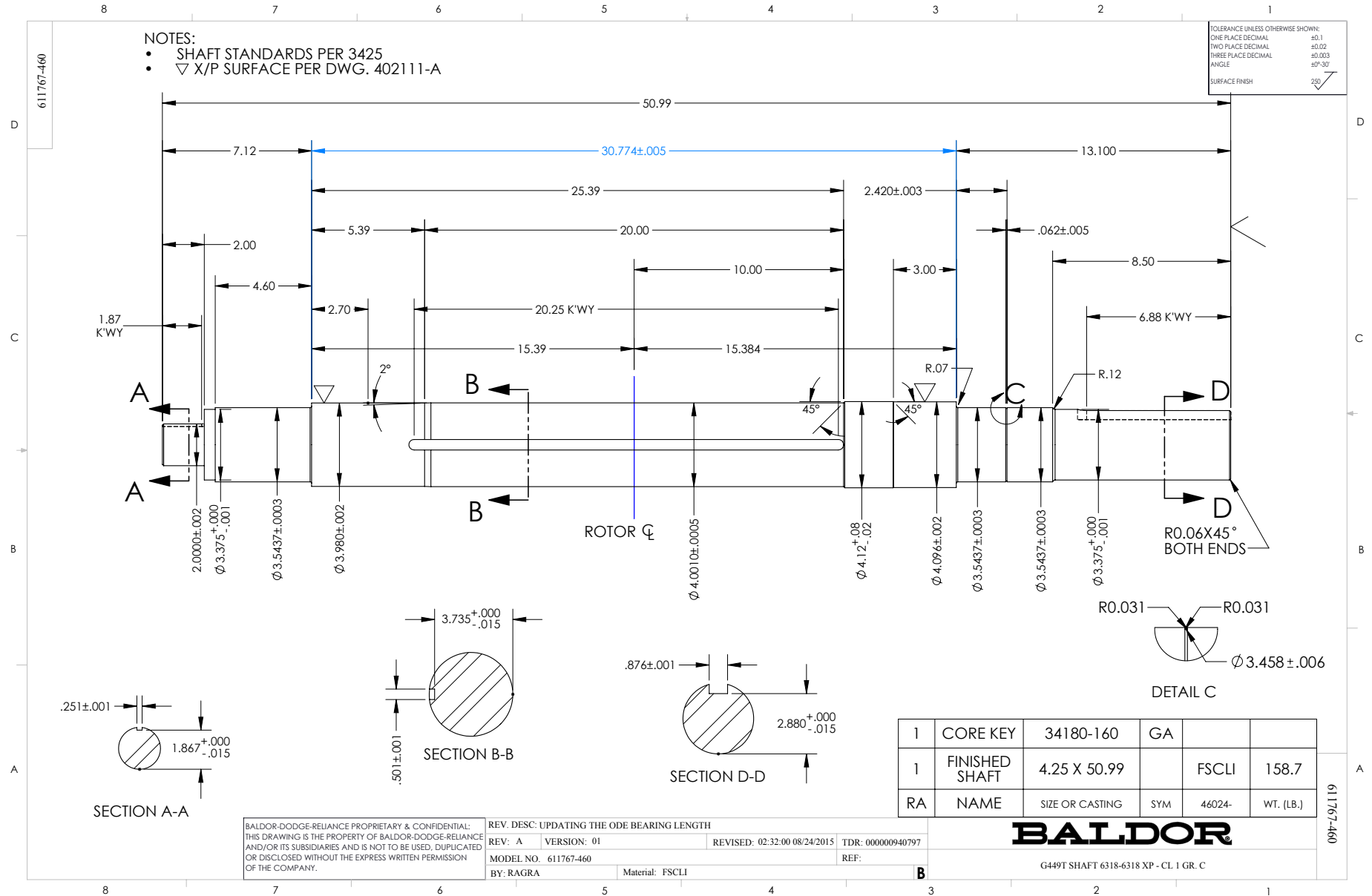
SHEET NUMBER
1 OF 1
991-9CZ119

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.

REV. DESC: NEW ISSUE	VERSION: 00	REVISED: 09-37-40 04/21/2016	TDR: 00000976634
MODEL NO: 617426-166	BY: RAGGDM		

BALDOR

G449T447T XP FT SIDE CTR C/B - CL 1 C / CL 2 E, F & G 3" NPT



CONNECTION DIAGRAM ACCESSORIES

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

NORMALLY CLOSED	THERMOSTATS	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: -		

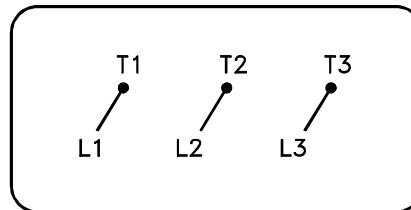
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

416820-036

**A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED**



(N.P. 1575-BA)

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

416820-036