ABB BALDOR RELIANCE

Customer information packet

ECP44402T-4

400HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE
Class - None
Division - Division II

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Specifications

Enclosure	TEFC
Frame	L449TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	30-60
Current @ Voltage	420.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	420.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Motor Lead Quantity/Wire Size	12 @ 1/0 AWG

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5211
Layout	617435-427
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	02
Leads	3#1/0 (04 per group)
Proprietary	False
Created date	05-17-2017

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	56.72 IN
Power Factor	92
Product Family	General Industrial
Pulley End Bearing Type	Ball
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

000901002AAA
IP-55 CONSTRUCTION

NP3238											
CAT NO	ECP44402T-4	**SPEC NO.**	A44-7175-5211								
HP	400	**AMPS**	420	**VOLTS**	460	**DESIGN**	B				
FRAME	L449TS	**RPM**	3570	**HZ**	60	**AMB**	40	**SF**	1.15		
D.E. BRG.DATA	6313	**O.D.E. BRG.DATA**	6313	**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F		
D.E. BRG.	65BC03J30X	**TYPE**	P	**ENCL**	TEFC	**CODE**	G				
O.D.E. BRG.	65BC03J30X	**POWER FACTOR**	92	**NEMA NOM EFFICIENCY**	96.2						
3/4 LOAD EFF.	96.5	**MAX CORR KVAR**	25.0	**GUARANTEED EFFICIENCY**	95.4						
TEMP CODE	T2C	**TEMP =**	230								
CHP HZ	60-75	**CT HZ**	30-60	**VT HZ**	0-60						
INVERTER-TEMP-CODE	T2C										
SER.NO.		**MOTOR WEIGHT**									

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449TS	400	P	3/60	3570	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
420	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
-	418143-016-MEQ	---	---	.00612

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	78.9	3600	6.92	0
1/4	100	127	3593	78.6	94.0
2/4	200	214	3586	91.1	96.1
3/4	300	313	3579	93.0	96.5
4/4	400	419	3571	92.6	96.4
5/4	500	529	3563	92.1	96.1

SPEED TORQUE

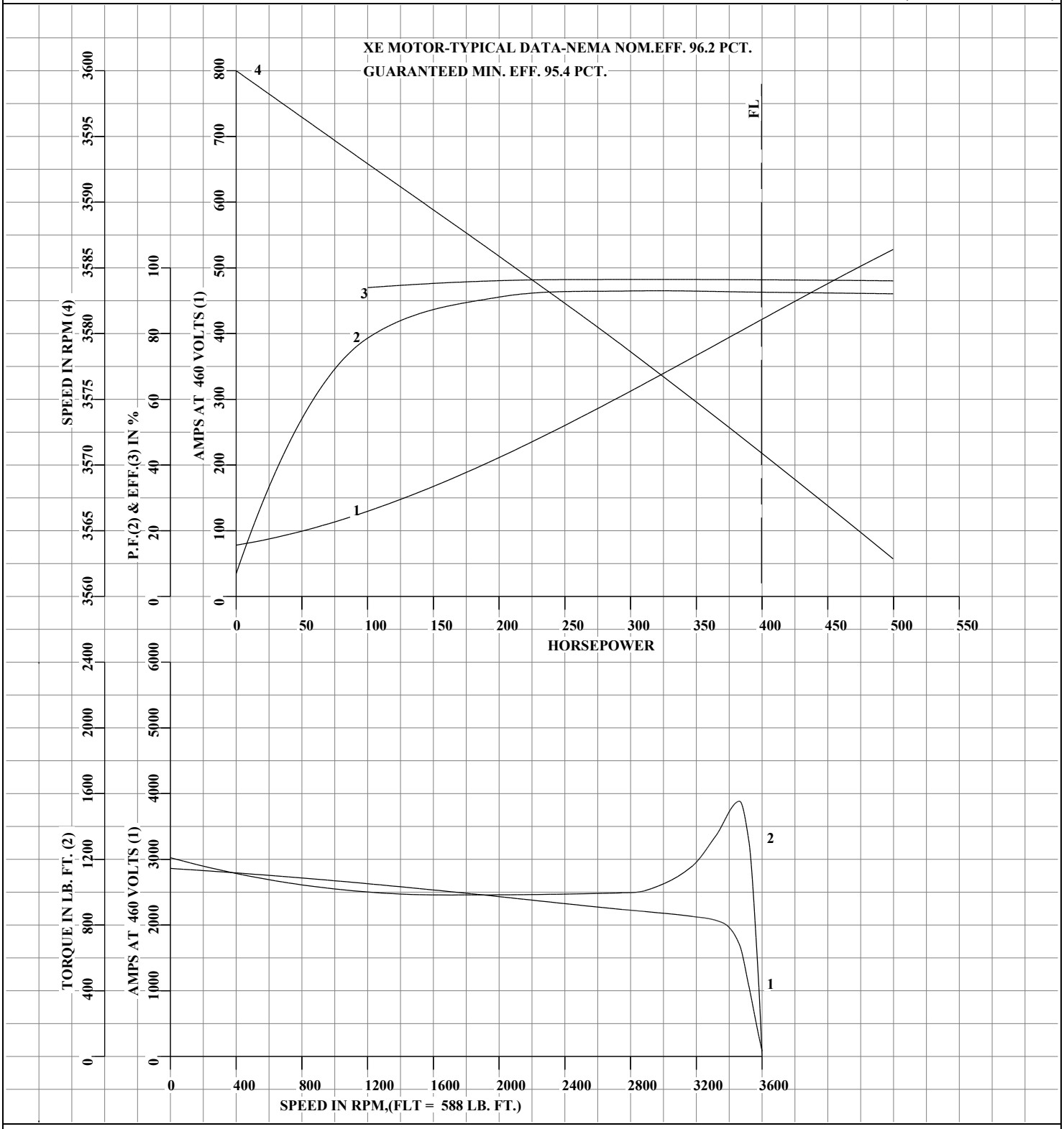
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	206	1210	2861
PULL UP	1670	167	983	2517
BREAKDOWN	3463	264	1554	1697
FULL LOAD	3571	100	588	419

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

TYPICAL DATA
XE MOTOR-TYPICAL DATA-NEMA NOM.EFF. 96.2 PCT.
GUARANTEED MIN. EFF. 95.4 PCT.

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W.L. SMITH APPROVED BY: W.L. SMITH DATE: 05/15/17	AC MOTOR PERFORMANCE DATA	A44WG5211-R002 DATE ISSUED 10/14/24

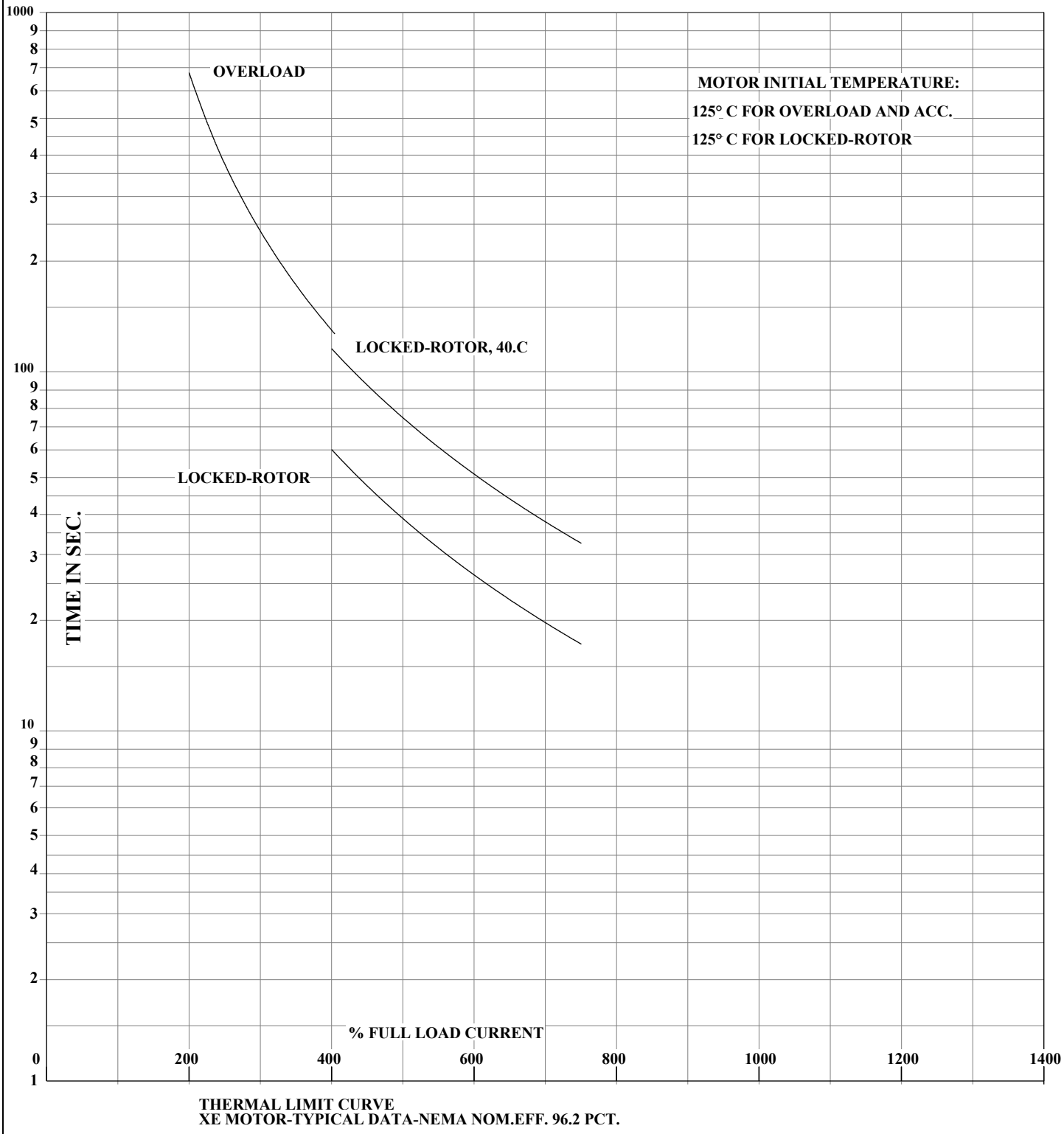
FRAME L449TS	RPM 3570	S.F. 1.15	ROTOR 418143-016-MEQ
HP 400	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 420	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .00612
	AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W.L. SMITH APPROVED BY: W.L. SMITH DATE: 05/15/17	AC MOTOR PERFORMANCE DATA	A44WG5211-R002 ISSUE DATE 10/14/24

FRAME L449TS	RPM 3570	S.F. 1.15	ROTOR 418143-016-MEQ
HP 400	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 420	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .00612
	AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-TYPICAL DATA-NEMA NOM.EFF. 96.2 PCT.

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

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W.L. SMITH APPROVED BY: W.L. SMITH DATE: 05/15/17	AC MOTOR PERFORMANCE DATA	A44WG5211-R002 ISSUE DATE 10/14/24

DUTY MASTER ALTERNATING CURRENT MOTORS

617435-427

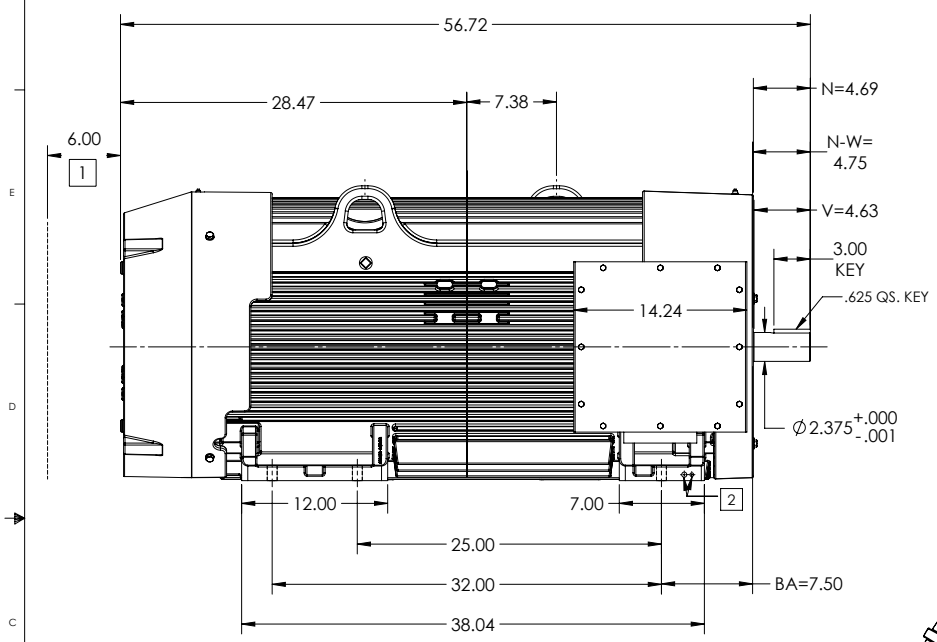
ENCLOSURE: TOTALLY ENCLOSED

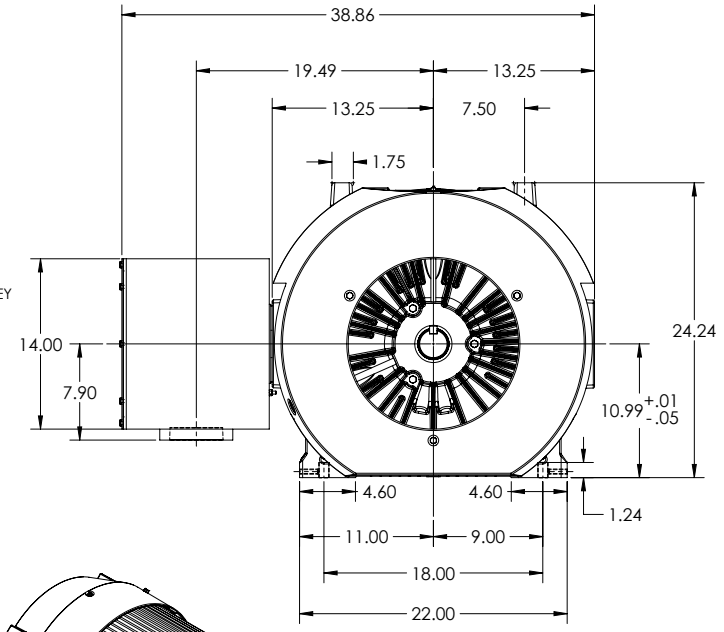
SQUIRREL-CAGE INDUCTION

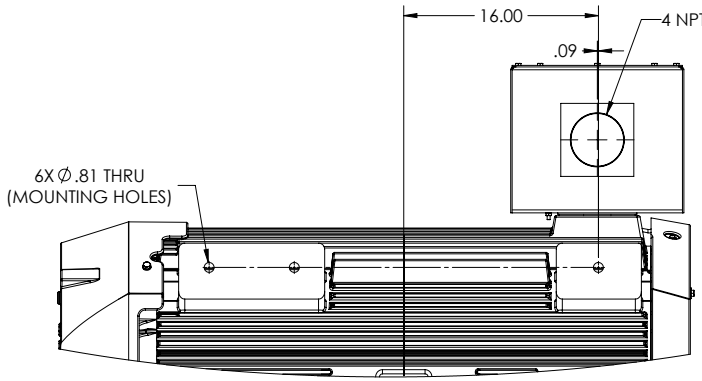
MOUNTING: FOOT, F-1

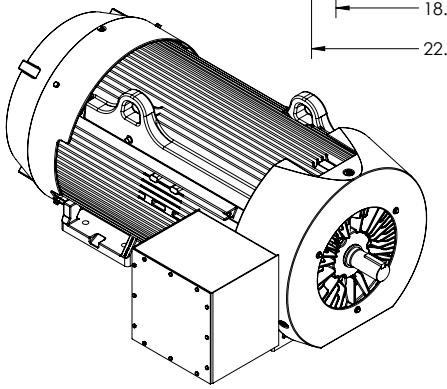
GL449TS/449TS FRAME MOUNTING

COOLING: FAN COOLED









1 OBSTRUCTION MUST NO ENCROACH ON AIR INLET.

2 (1) 3/8-16 & (1) 1/2-13 GROUNDING TAPS (BOTH SIDES).

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.

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN SPECIFIED

DIMENSIONS ARE IN INCHES.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

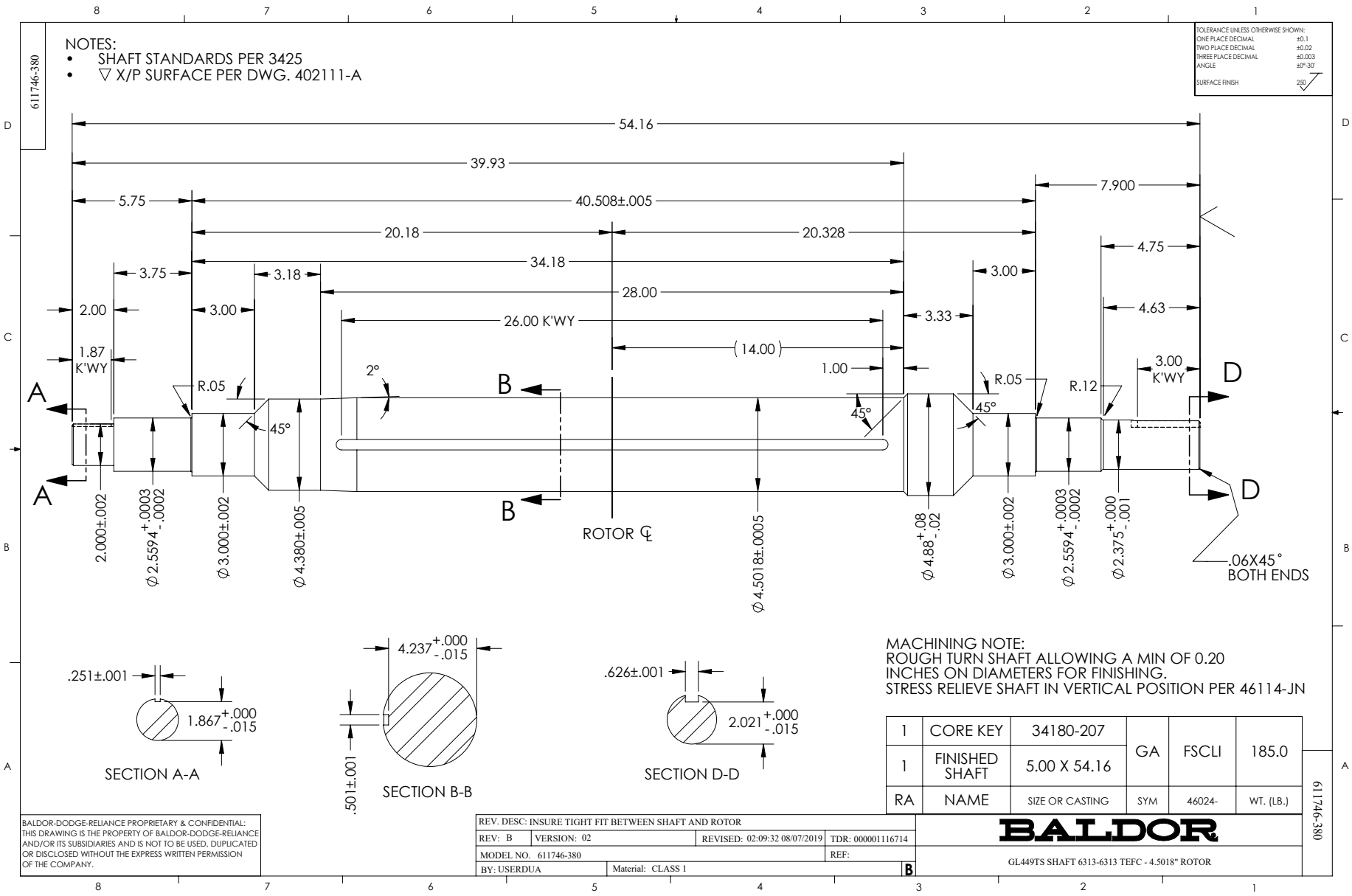
617435-427

REV. DESC: ADD NOTE REGARDING AIR DEFLECTOR			
REV: C	VERSION: 03	REVISED: 07:44:30 02/27/2024	TDR: 000001226889
MODEL NO. 617435-427			
BY: RAGGDM			C

BALDOR

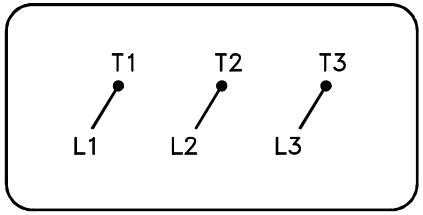
GL449/449TS F1 TEFC FT SIDE MNT 14X14X12 STEEL BOX W/ 4" NPT

617435-427


NOTES:
• SHAFT STANDARDS PER 3425
• ▽ X/P SURFACE PER DWG. 402111-A
611746-380
TOLERANCE UNLESS OTHERWISE SHOWN:
ONE PLACE DECIMAL ±0.1
TWO PLACE DECIMAL ±0.02
THREE PLACE DECIMAL ±0.003
ANGLE ±0°-30'
SURFACE FINISH 250
54.16
39.93
5.75
40.508±.005
20.18
20.328
7.900
3.75
3.18
34.18
3.00
4.75
2.00
3.00
28.00
3.33
4.63
26.00 K'WY
1.87 K'WY
(14.00)
1.00
R.05
2°
45°
R.12
3.00 K'WY
A
B
D
2.000±.002
Ø2.559 +.0003 -.0002
Ø3.000±.002
Ø4.380±.005
ROTOR ℄
Ø4.5018±.0005
Ø4.88 +.08 -.02
Ø3.000±.002
Ø2.559 +.0003 -.0002
Ø2.375 +.000 -.001
.06X45° BOTH ENDS
.251±.001
1.867 +.000 -.015
SECTION A-A
4.237 +.000 -.015
.501±.001
SECTION B-B
.626±.001
2.021 +.000 -.015
SECTION D-D
MACHINING NOTE:
ROUGH TURN SHAFT ALLOWING A MIN OF 0.20 INCHES ON DIAMETERS FOR FINISHING.
STRESS RELIEVE SHAFT IN VERTICAL POSITION PER 46114-JN
1 CORE KEY 34180-207 GA FSCLI 185.0
1 FINISHED SHAFT 5.00 X 54.16
RA NAME SIZE OR CASTING SYM 46024- WT. (LB.)
611746-380
BALDOR-DODGE-RELIANCE PROPRIETARY & CONFIDENTIAL: THIS DRAWING IS THE PROPERTY OF BALDOR-DODGE-RELIANCE AND/OR ITS SUBSIDIARIES AND IS NOT TO BE USED, DUPLICATED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COMPANY.
REV. DESC: INSURE TIGHT FIT BETWEEN SHAFT AND ROTOR
REV: B VERSION: 02 REVISED: 02:09:32 08/07/2019 TDR: 000001116714
MODEL NO. 611746-380 REF:
BY: USERDUA Material: CLASS 1 B
BALDOR
GL449TS SHAFT 6313-6313 TEFC - 4.5018" ROTOR

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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1