ABB BALDOR RELIANCE

Customer information packet

SPM44302TS-4

300HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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Specifications

Enclosure	TEFC
Frame	L449TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	315.000 A @ 460.0 V
Design Code	B
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	315.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Max Speed	4200 rpm
Motor Lead Quantity/Wire Size	6 @ 3/0 AWG

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5291
Layout	617439-226
Eff. date	01-22-2025
CD Diagram	416820-036
Poles	02
Leads	3#3/0 (02 per group)
Proprietary	False
Created date	12-18-2024

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	56.71 IN
Power Factor	93
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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

NP4562L																			
CAT NO	SPM44302TS-4			**SPEC NO.**	A44-5011-5291				**I.P.**	55									
HP	300	**AMPS**	315		**VOLTS**	460			**DESIGN**	B									
FRAME SIZE	L449TS	**RPM**	3570		**MAX RPM**	4200	**HZ**	60	**AMB**	40									
D.E. BRG.	65BC03J30X			**PH.3**	3	**DUTY**	CONT				**INSUL.CLASS**	F							
O.D.E. BRG.	65BC03J30X				**TYPE P**	P	**ENCL**	TEFC	**SF**	1.15	**CODE**	F							
POWER FACTOR	93			**MAX CORR KVAR**	16					**NEMA NOM EFFICIENCY**	96.2				**MOTOR WEIGHT**	3345	**LBS**		
CL.I,DIV 2,GRP:	**A,B,C,D**		**T.CODE**	T2D			**CL.1,ZONE 2,GRP:**			**IIA,IIB,IIC**	**T=**	215		**INVERTER T.CODE**	T2B				
CL.II,DIV 2,GRP:	**F,G**	**T.CODE**	T3C				**CL II ZONE 22 GRPS IIIB**			**T=**	160		**INVERTER T.CODE**	T3C					
ID LOGO	**INV TYPE:**	**VPWM**	**CT**	30	**TO**	60	**VT**	3	**TO**	60	**CHP**	60	**TO**	70					
ID LOGO	**1.0 SF VPWM**	**WK2**	52.4		**LBFT2**		**SL HZ**	0.44		**MAG CUR**	52.5								
SER.NO.				**MEETS INTENT OF IEEE-45**						**FOR WEATHER PROTECTION**									

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449TS	300	P	3/60	3570	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	418143006B	---	---	.00837

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	52.5	3600	7.63	0
1/4	75.0	90.2	3594	82.8	94.0
2/4	150	157	3587	92.8	96.1
3/4	225	233	3580	93.6	96.4
4/4	300	315	3573	92.8	96.2
5/4	375	396	3566	92.4	95.9

SPEED TORQUE

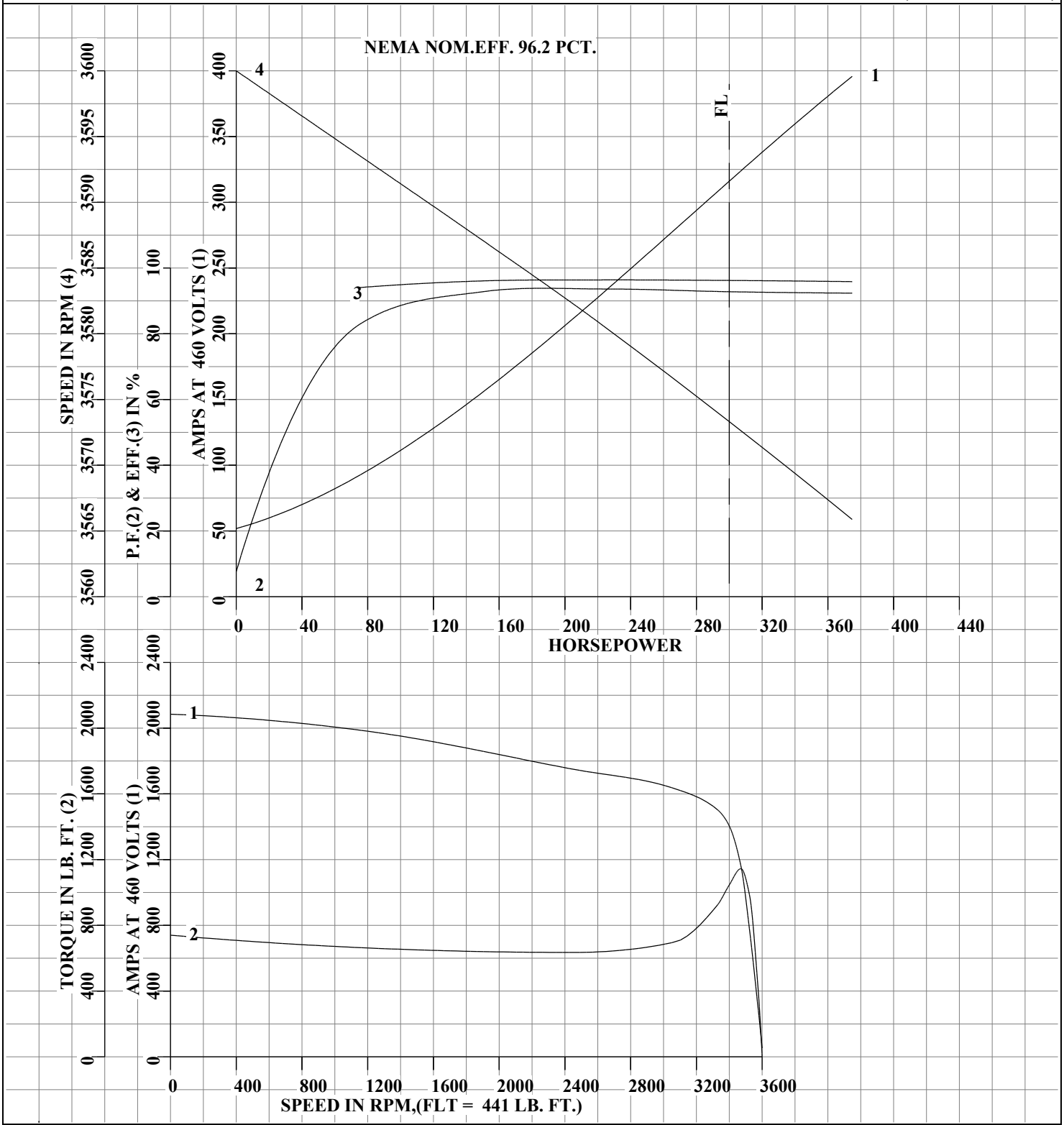
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	168	740	2085
PULL UP	2450	144	635	1750
BREAKDOWN	3471	260	1145	1160
FULL LOAD	3573	100	441	315

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

TYPICAL DATA
NEMA NOM.EFF. 96.2 PCT.

ABB	DRAWN BY: W.L.SMITH CHECKED BY: C.E.JAMISON APPROVED BY: W.L.SMITH DATE: 12/18/24	AC MOTOR PERFORMANCE DATA	A44WG5291-R004 DATE ISSUED 12/18/24

FRAME L449TS	RPM 3570	S.F. 1.15	ROTOR 418143006B
HP 300	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 315	CODE LETTER F	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .00837
	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: W.L.SMITH CHECKED BY: C.E.JAMISON APPROVED BY: W.L.SMITH DATE: 12/18/24	AC MOTOR PERFORMANCE DATA	A44WG5291-R004 ISSUE DATE 12/18/24

DUTY MASTER ALTERNATING CURRENT MOTORS

617439-226

ENCLOSURE: TOTALLY ENCLOSED

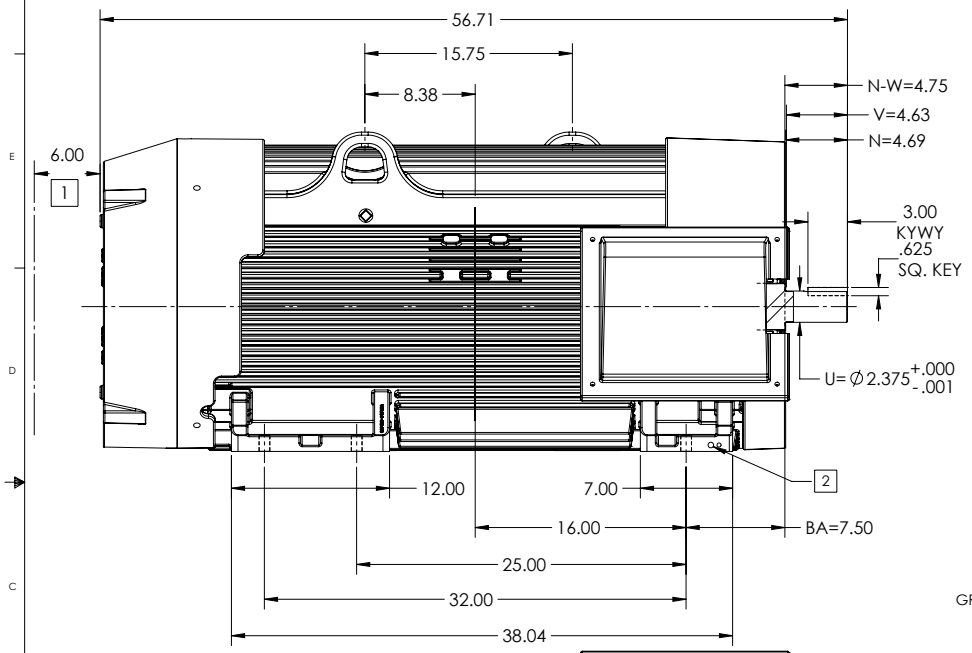
SQUIRREL-CAGE INDUCTION

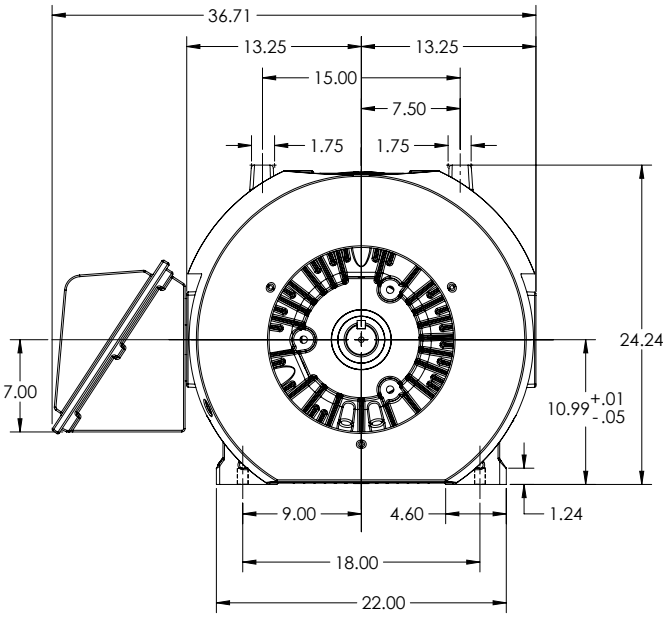
COOLING: FAN COOLED

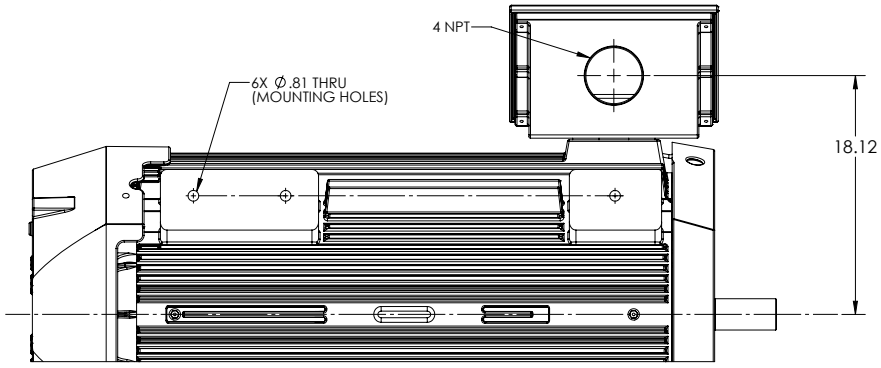
MOUNTING: FOOT, F-1 SIDE

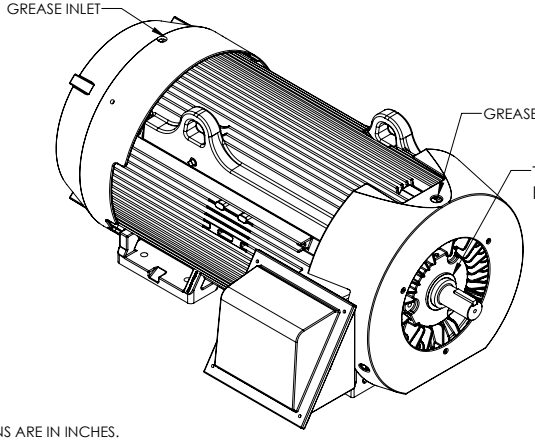
GL449TS/G449TS FRAME MOUNTING HOLES WITH TACONITE SLINGERS

ENCLOSURE ENHANCEMENT: SEVERE DUTY









1 OBSTUCTIONS MUST NOT ENCROACH ON AIR INLET.

2 GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP

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.

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS.) 3045, MOTOR 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

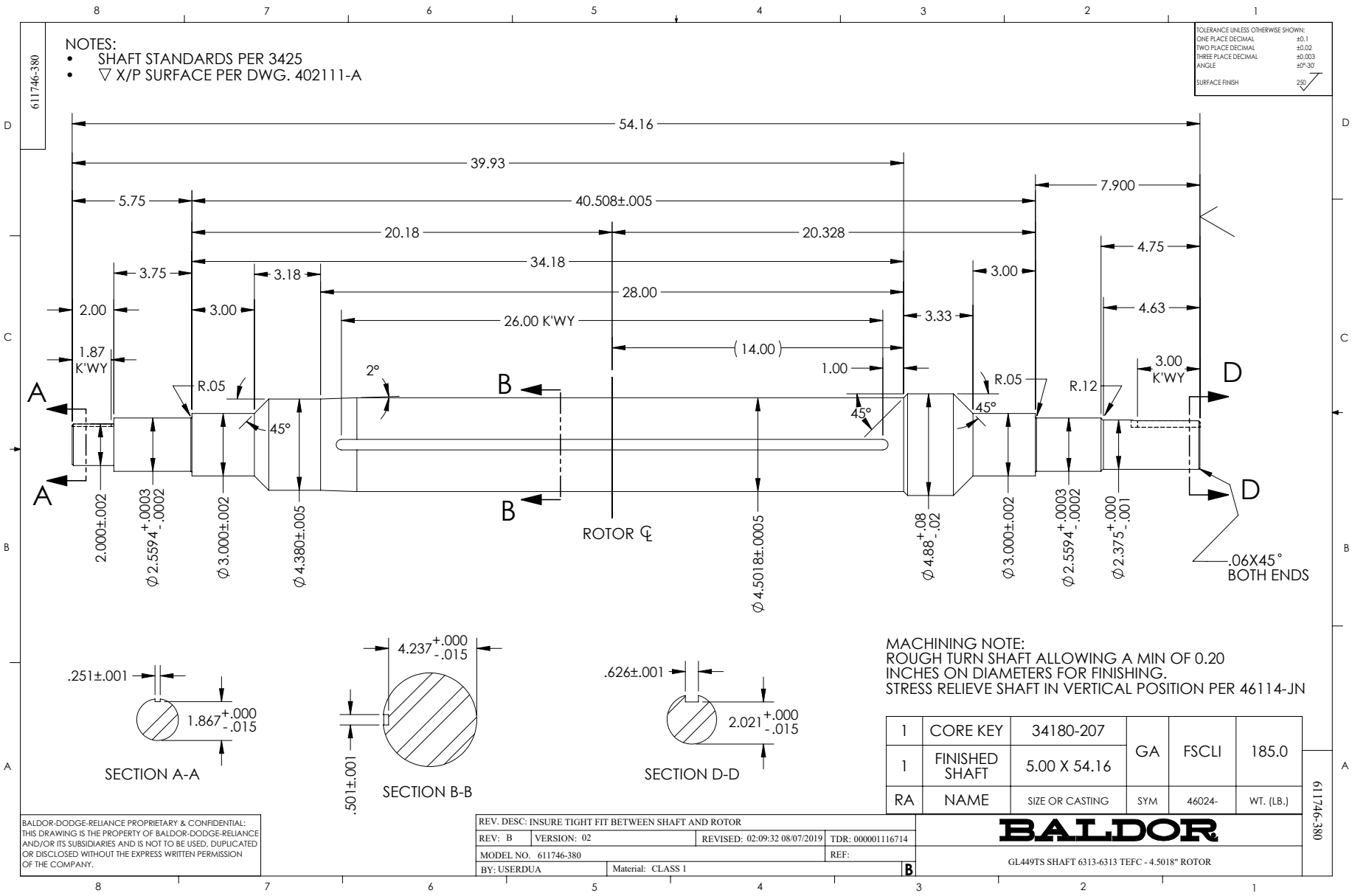
617439-226

REV. DESC: UPDATE SHAFT DIMENSIONS			
REV: A	VERSION: 01	REVISED: 10:18:43 01/24/2025	TDR: 000001245256
MODEL NO. 617439-226			
BY: USJOSUL			C

BALDOR

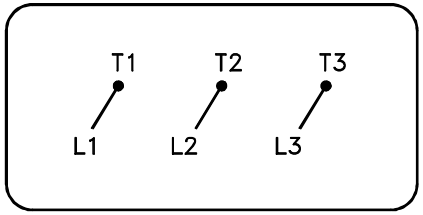
GL449TS TEFC F1 FT SIDE CI BOX 6318 BRGS DIV 2 CL 2 AIR DEF

617439-226


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
7.900
20.18
20.328
4.75
3.75
3.18
34.18
3.00
28.00
2.00
3.00
26.00 K'WY
3.33
4.63
1.87 K'WY
14.00
1.00
3.00 K'WY
R.05
2°
R.05
R.12
45°
45°
A
A
B
B
D
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