

ABB BALDOR RELIANCE III

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

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			

CUSTOMER INFORMATION PACKET		SPM44302TS-4 - 300HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE				
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.

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

FRAME L449TS

RPM 3570

S.P. 1.15

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 300

VOLTS 460

AMPS 315

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

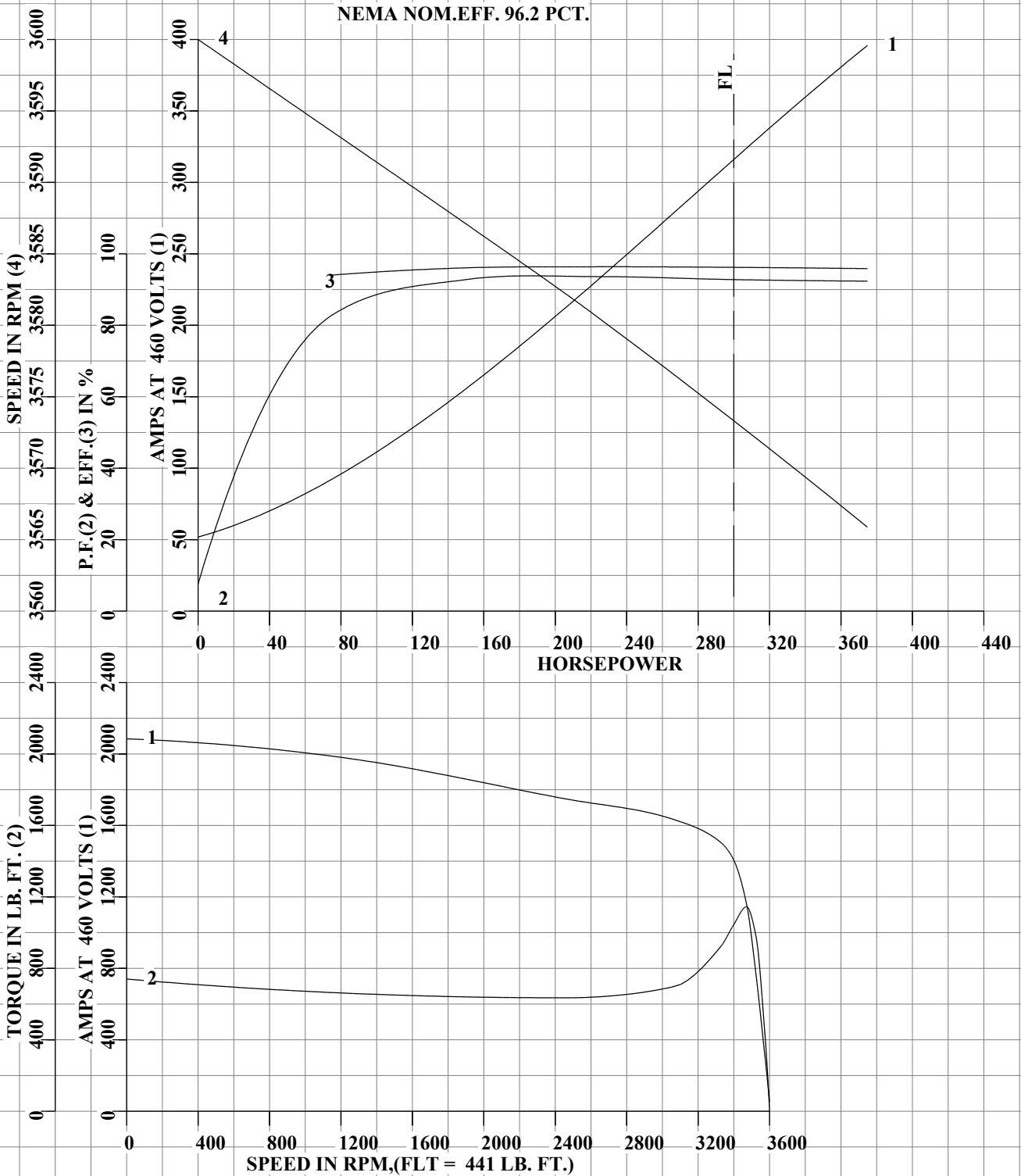
STATOR RES. @ 25°C .00837

PHASE / HERTZ 3/60

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.



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
SQUIRREL-CAGE INDUCTION

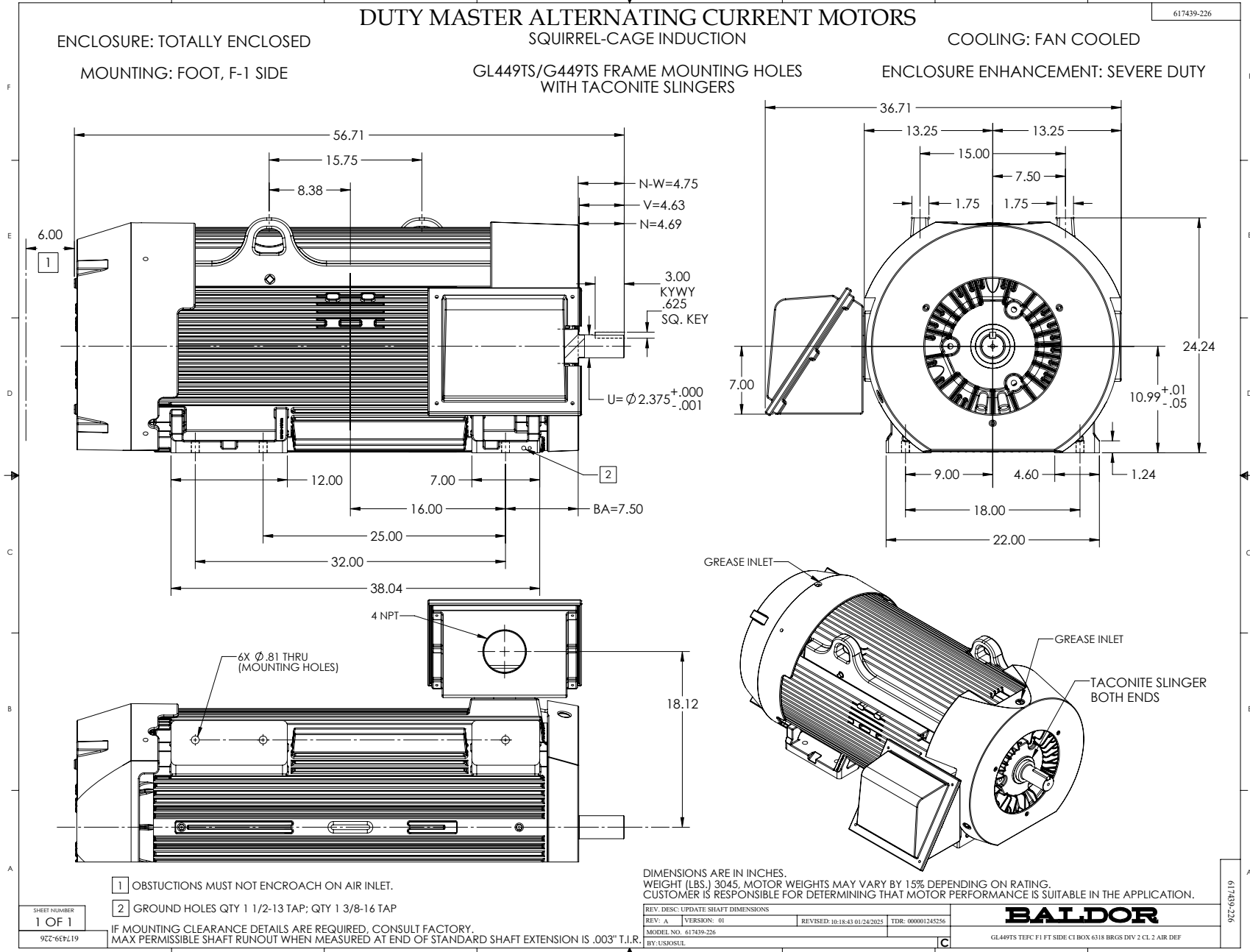
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

GL449TS/G449TS FRAME MOUNTING HOLES
WITH TACONITE SLINGERS

COOLING: FAN COOLED

ENCLOSURE ENHANCEMENT: SEVERE DUTY



- 1 OBSTRUCTIONS MUST NOT ENCR OACH 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.

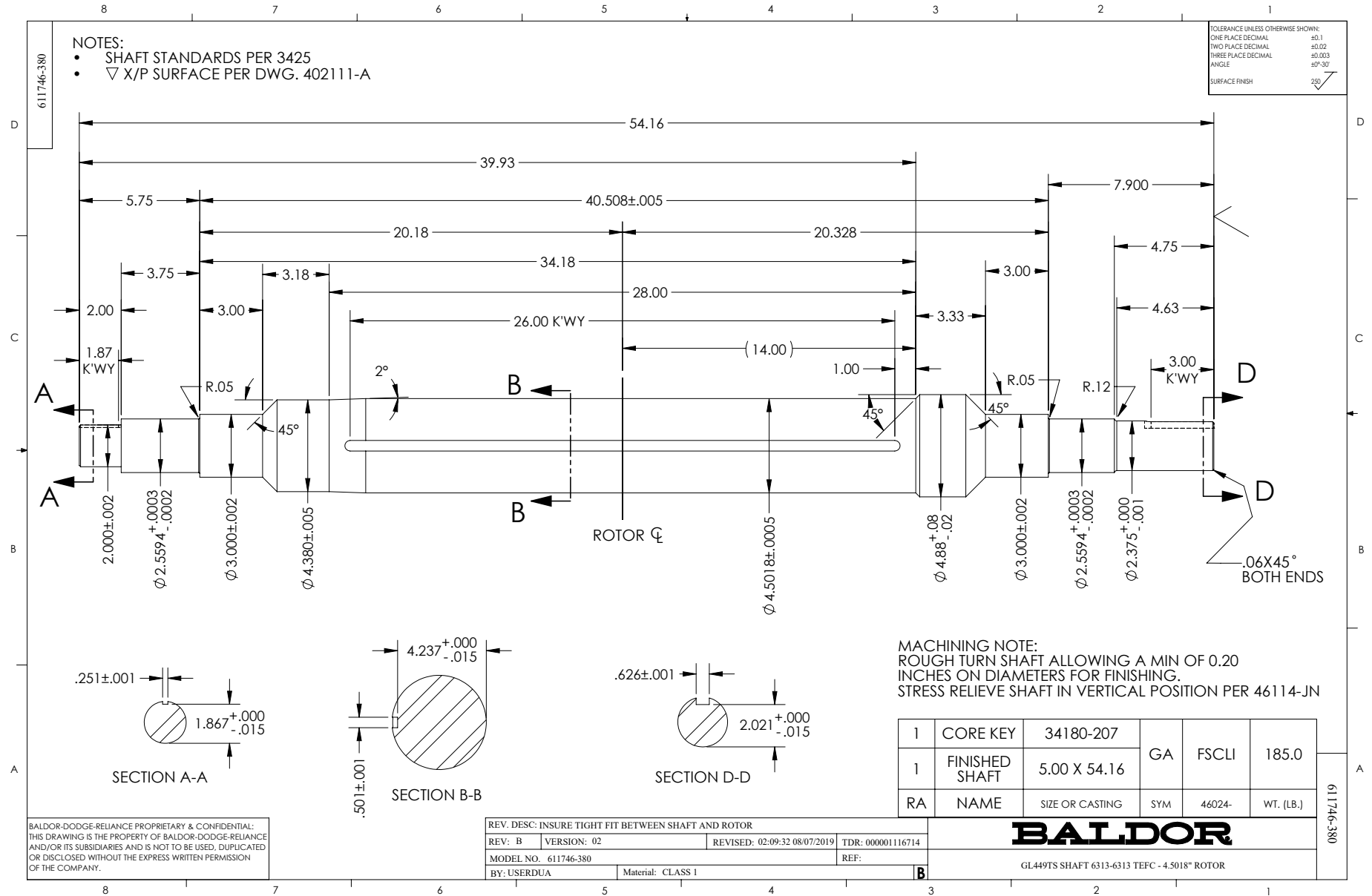
REV. DESC: UPDATE SHAFT DIMENSIONS			
REV: A	VERSION: 01	REVISED: 10-18-83 01/24/2025	TDR: 0000124256
MODEL NO. 617439-226			
BY: USR08UL			

BALDOR

GL449TS TEFC F1 FT SIDE C1 BOX 6318 BRGS DIV 2 CL 2 AIR DEF

SHEET NUMBER
1 OF 1
9CC-657219

617439-226



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