

ABB BALDOR RELIANCE III

Customer information packet

ECP84408T-4

250HP, 1785RPM, 3PH, 60HZ, 449T, A44160M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	C UR US CCSA US CCSAUSEEV CURUS
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	274.000 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	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	274.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5175
Layout	617434-665
Eff. date	07-14-2025
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	05-20-2025

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	None
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	79.3 a
Number of Poles	4
Overall Length	53.47 IN
Power Factor	88
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	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566																
CAT NO	ECP84408T-4			SPEC NO.		A44-0001-5175										
HP	250	AMPS		274	VOLTS		460		DESIGN		B					
FRAME SIZE	449T	RPM		1785	HZ		60	AMB		40	SF		1.15			
D.E. BRG.DATA	6318			O.D.E. BRG.DATA		6318			PH		3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	90BC03J30X			TYPE		ENCL	TEFC		CODE		G					
O.D.E. BRG.	90BC03J30X			POWER FACTOR			88		NEMA-NOM-EFFICIENCY				96.2			
3/4 LOAD EFF.	96.5	IP		56	MAX CORR KVAR			38		GUARANTEED EFFICIENCY				95.4		
TEMP CODE	T3	TEMP =		200												
CHP HZ	60-90	CT HZ		30-60	VT HZ		0-60									
INVERTER-TEMP-CODE	T3															
SER.NO.				MOTOR WEIGHT												

000613007EX					
CAT NO	ECP84408T-4	SPEC NO.	A44-0001-5175		
NO. ROTOR BARS	58	GREASE TYPE	POLYREX EM		
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE		79.3	
5 YEAR WARRANTY		WINDING RES @25 C	.0114	OHMS	
MFG. DATE		SER.NO			

Parts List

Part number	Description	Quantity
SA438664	SA A44-0001-5175	1.000 ea
RA431035	RA A44-0001-5175	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
NP4566	SS INV IEEE841-2021,CLI DIV2,CURUS-E,CSA	1.000 ea
000613007EX	SS IEEE 841 EMBOSSED AUXILIARY NAMEPLATE	1.000 ea
000692000FF	N/P	1.000 ea
000692000JP	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
004824015A	GREASE POLYREX EM	1.156 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
034690005AB	PPLG 3/4 PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
089490099D	G28 BRKT 089490098WCA	1.000 ea
410700004A	WSHR	1.000 ea
415028079H	SEAL, 625 WIDE, 318 BRG	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011D	WASHER	3.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea

032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
415915007G	GASK, LAC	1.000 ft
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089490099D	G28 BRKT 089490098WCA	1.000 ea
415028079H	SEAL, .625 WIDE, 318 BRG	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
418151014G	RETAIN RING	1.000 ea
423709011D	WASHER	3.000 ea
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053014A	GASK 440	1.000 ea
076870000BA	CONDUIT BOX - 440 - 1/2-13 GROUND	1.000 ea
076871000A	+CBOX CVR BLKT - 449	1.000 ea
415039018A	TERBD, 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.500 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.094 ga
604797056	400-447 FRAME 60 X 42	1.000 ea

MG1500G03-5	LACQUER PRIMER, GRAY	0.094 ga
421948051	LABEL, MYLAR	1.000 ea
000692000VH	N/P (RELEASE 1000 PCS)	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
412118006A	DRAIN	2.000 ea

ECP84408T-4 - 250HP, 1785RPM, 3PH, 60HZ, 449T, A44160M, TEFC						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
274	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
445175	418143052ZE	---	---	.0114		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	79.3	1800	4.00	0	
1/4	62.5	103	1796	60.2	94.3	
2/4	125	151	1793	80.6	96.3	
3/4	187	210	1789	86.6	96.5	
4/4	250	274	1785	88.4	96.4	
5/4	313	342	1781	89.1	96.0	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	163	1195	1825		
PULL UP	1200	134	988	1536		
BREAKDOWN	1726	276	2029	952		
FULL LOAD	1785	100	735	274		
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> CHECKED BY: <u>C. E. JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>07/17/15</u>		AC MOTOR PERFORMANCE DATA		A44WG5175-R002
						DATE ISSUED 04/08/26

FRAME 449T

RPM 1785

S.F. 1.15

ROTOR 418143052ZE

HP 250

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 274

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

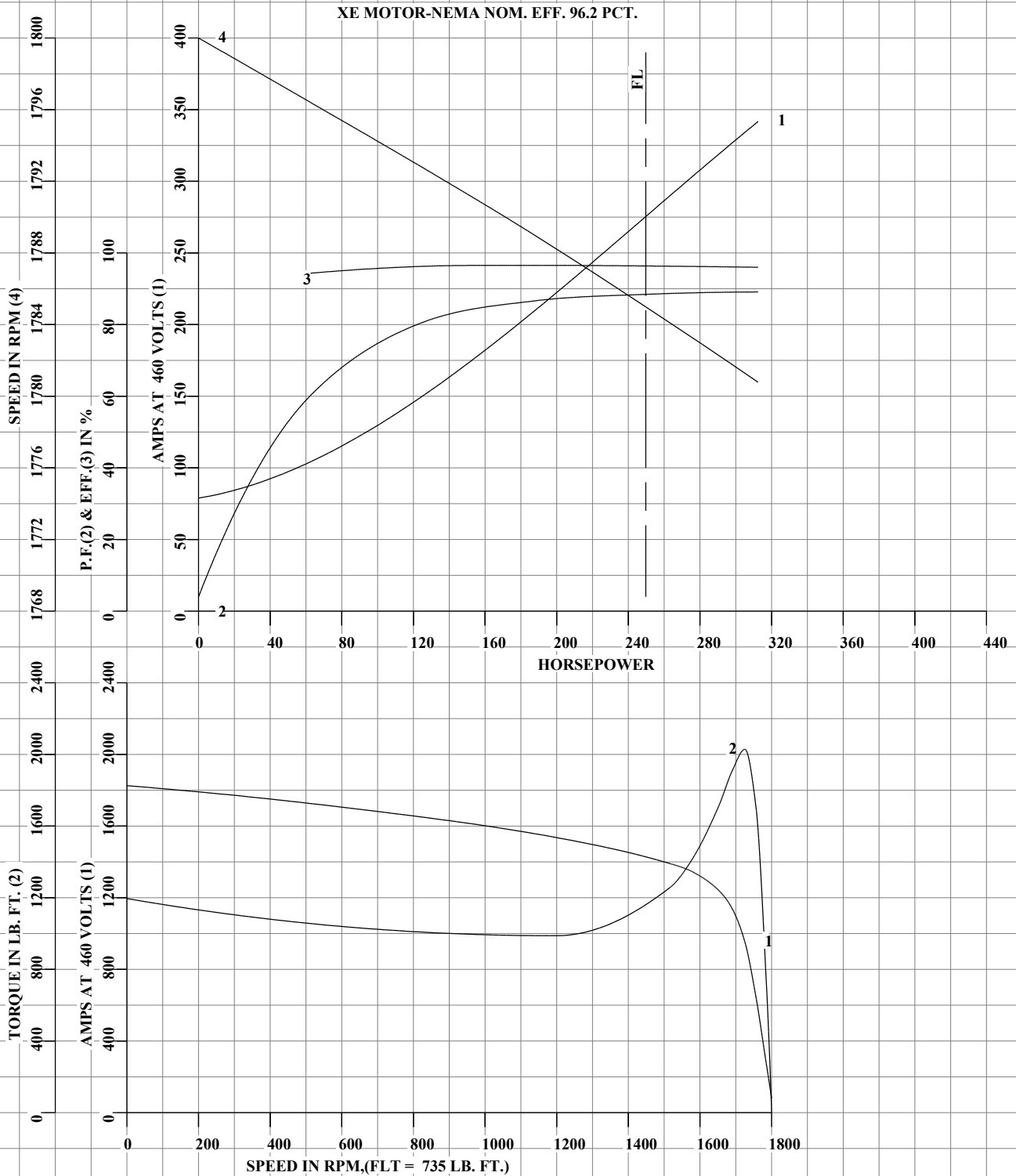
ENCLOSURE TEFC

STATOR RES. @ 25°C .0114

AMB °C / INSUL 40/F

E/S 445175

OHMS (BETWEEN LINES)



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



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AC MOTOR
PERFORMANCE
DATA

A44WG5175-R002

ISSUE DATE 04/08/26

FRAME 449T

RPM 1785

S.F. 1.15

ROTOR 418143052ZE

HP 250

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 274

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

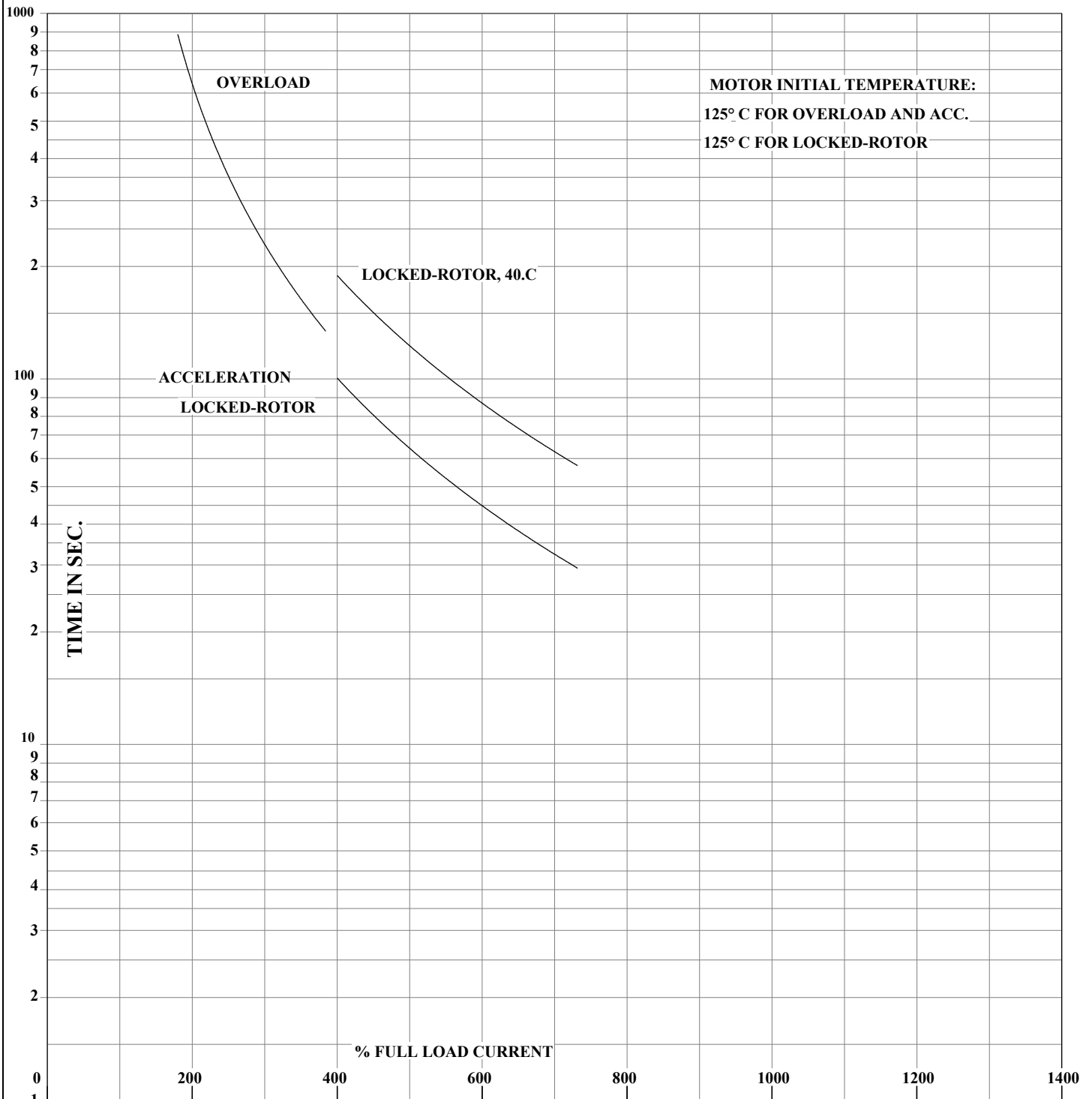
ENCLOSURE TEFC

STATOR RES. @ 25°C .0114

AMB °C / INSUL 40/F

E/S 445175

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-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.

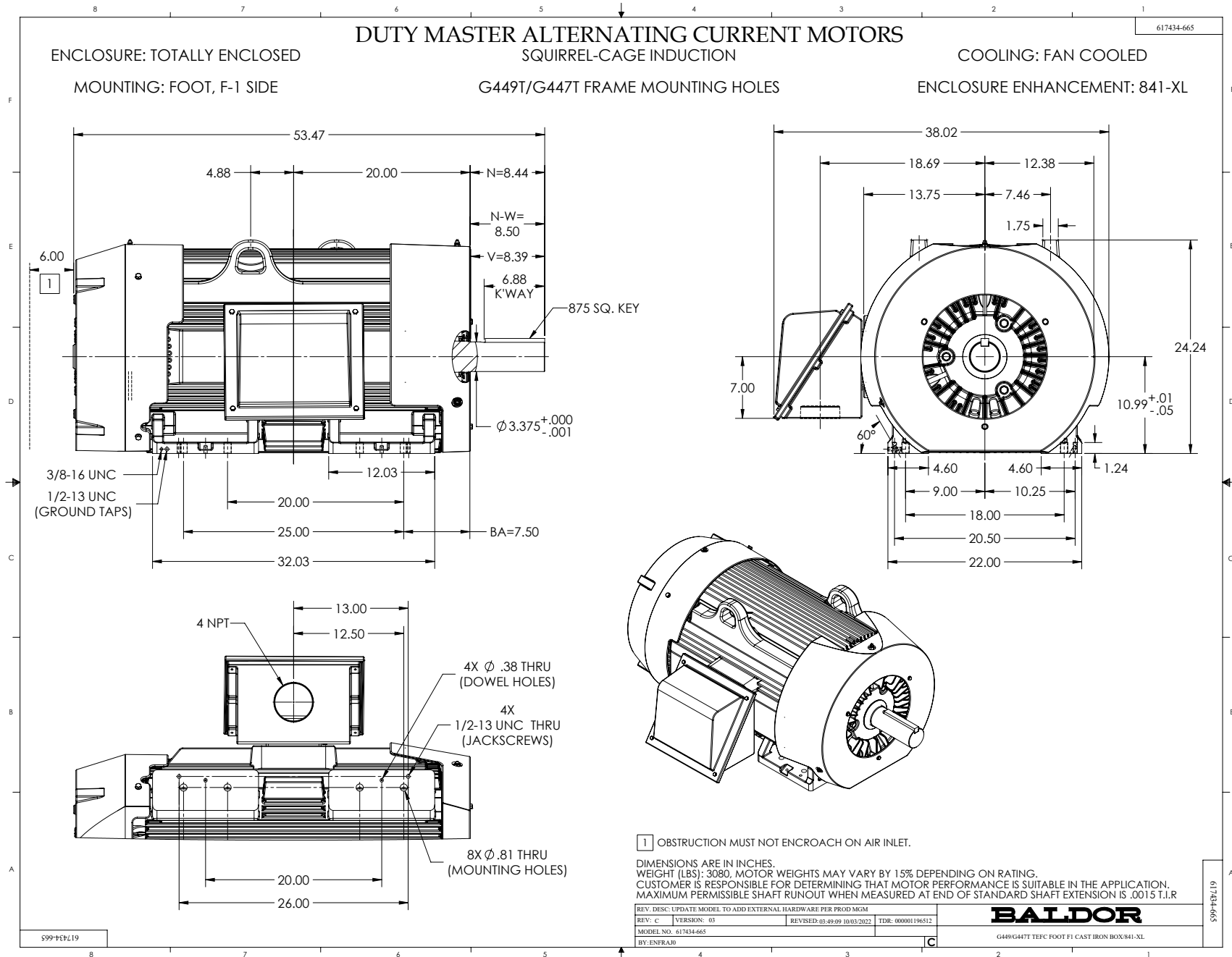


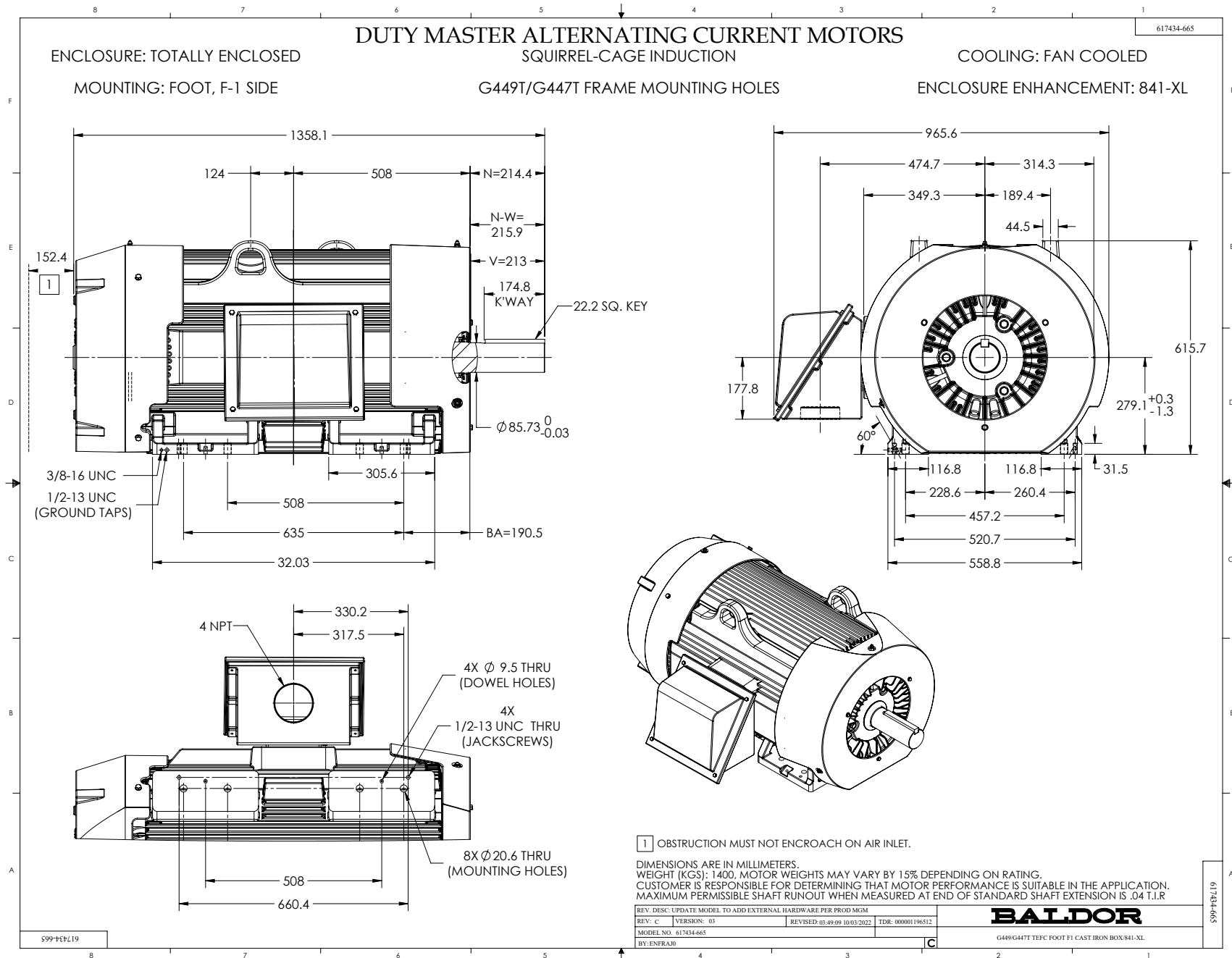
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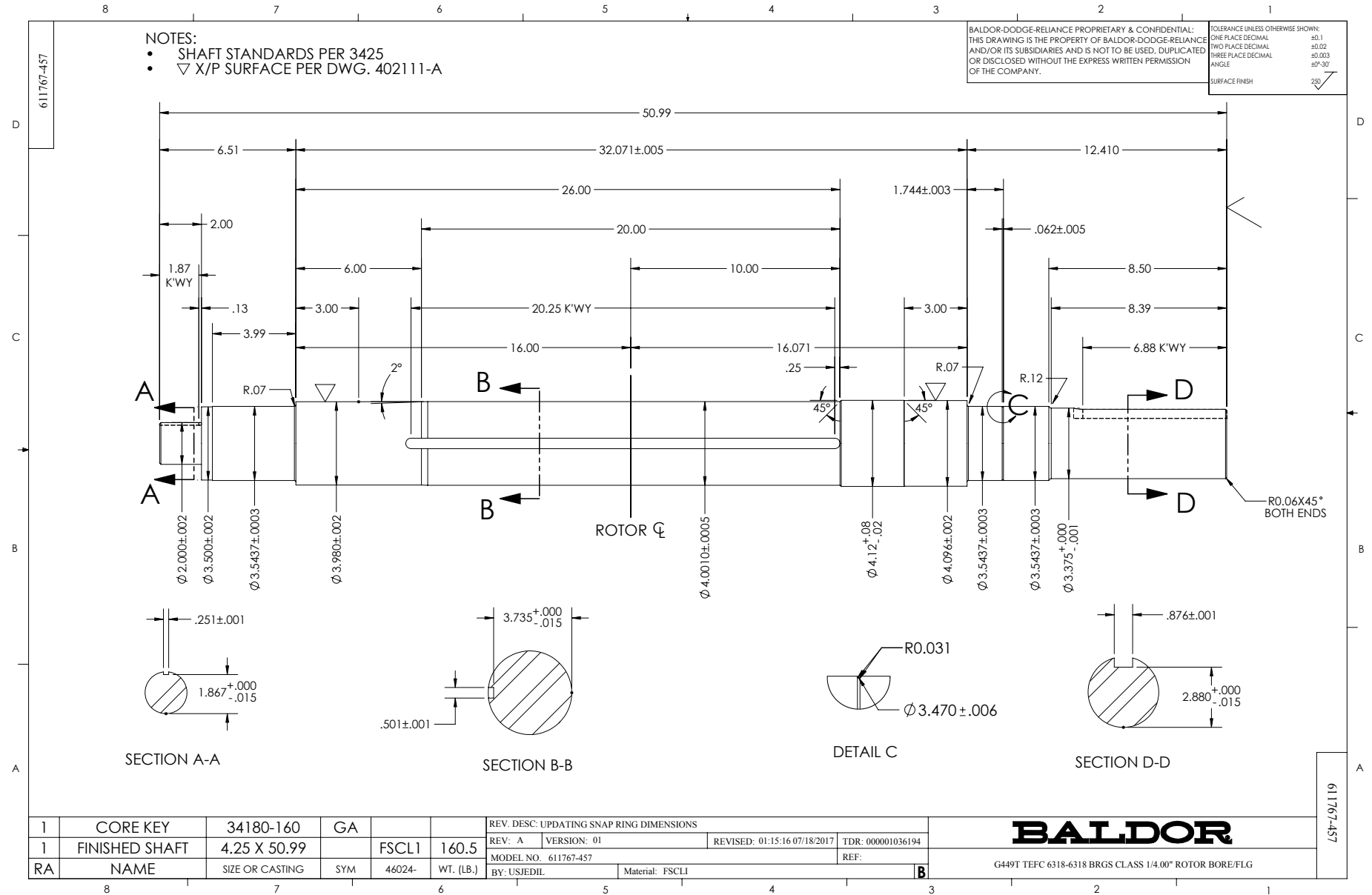
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PERFORMANCE
DATA

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ISSUE DATE 04/08/26

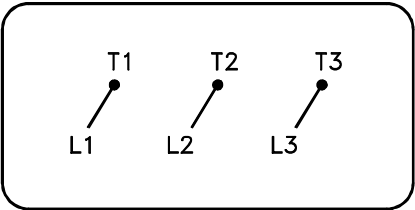






416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
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