

ABB BALDOR RELIANCE III

Customer information packet

EM44402T-4

400HP, 3570RPM, 3PH, 60HZ, L449TS, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	L449TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	420.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
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
Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5211
Layout	617435-427
Eff. date	11-06-2020
CD Diagram	416820-036
Poles	02
Leads	3#1/0 (04 per group)
Proprietary	False
Created date	06-05-2017

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	

NP2349L

SPEC NO.	P44G4028	CAT.NO.	EM44402T-4	FRAME	L449TS				
HP	400	VOLTS	460	PHASE	3	DESIGN	B	TYPE	
RPM	3570	AMPS	420	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03J30X	DUTY	CONT	INSUL.CLASS	F				
OPP D.E. BEARING	65BC03J30X	ENCL	TEFC	CODE	G				
SER.NO.		POWER FACTOR	92	NEMA-NOM-EFFICIENCY	96.2				
		MAX CORR KVAR	25	GUARANTEED EFFICIENCY	95.4				
		NEMA NOM/CSA QUOTED EFF							
		MOTOR WEIGHT	3649						

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							EM44402T-4 - 400HP, 3570RPM, 3PH, 60HZ, L449TS, TEFC, F1						
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.																				
						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 418145-016-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

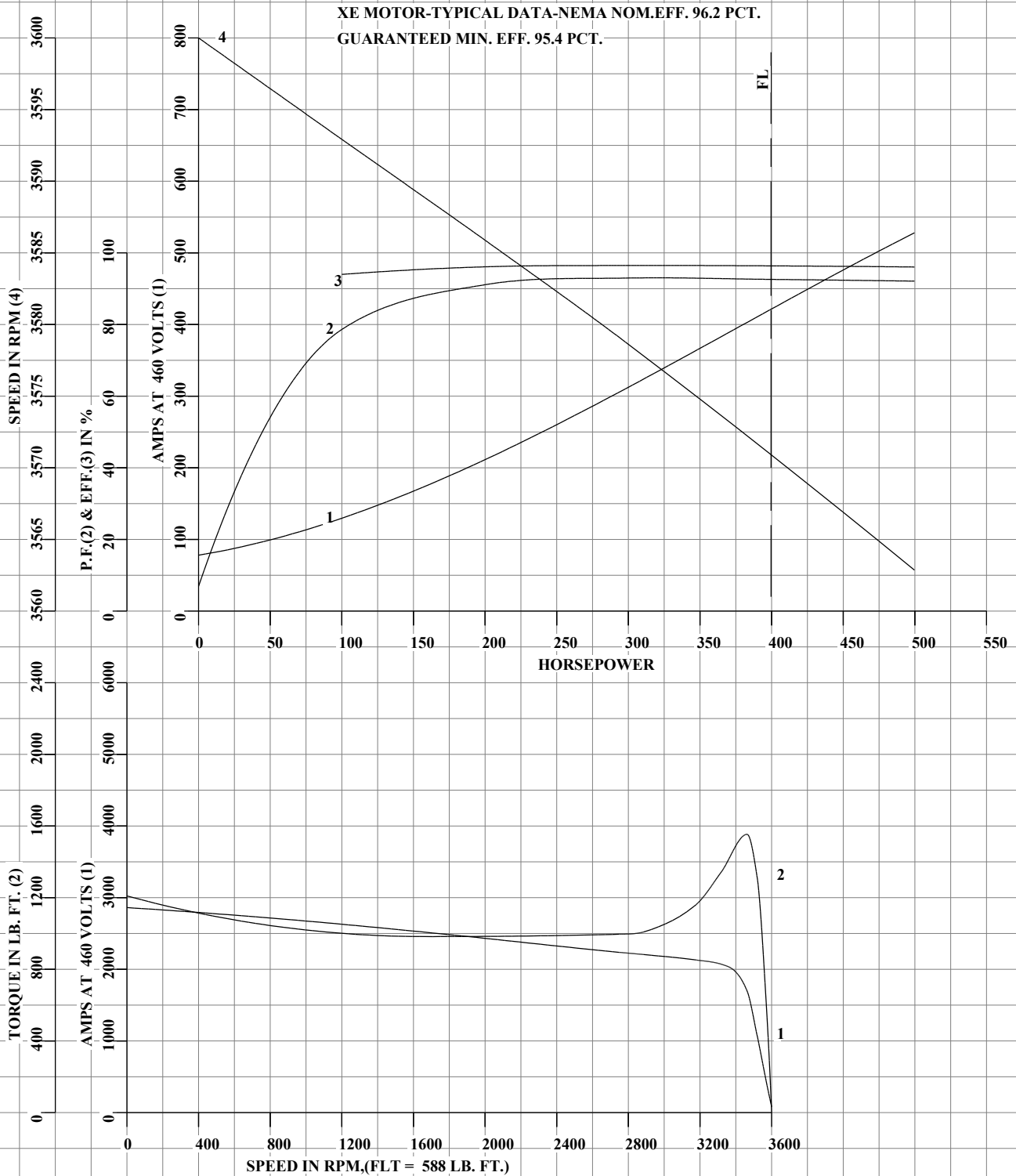
ENCLOSURE TEFC

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.



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AC MOTOR
PERFORMANCE
DATA

A44WG5211-R002

ISSUE DATE 10/14/24

FRAME L449TS

RPM 3570

S.F. 1.15

ROTOR 418145-016-MEQ

HP 400

VOLTS 460

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DUTY CONT

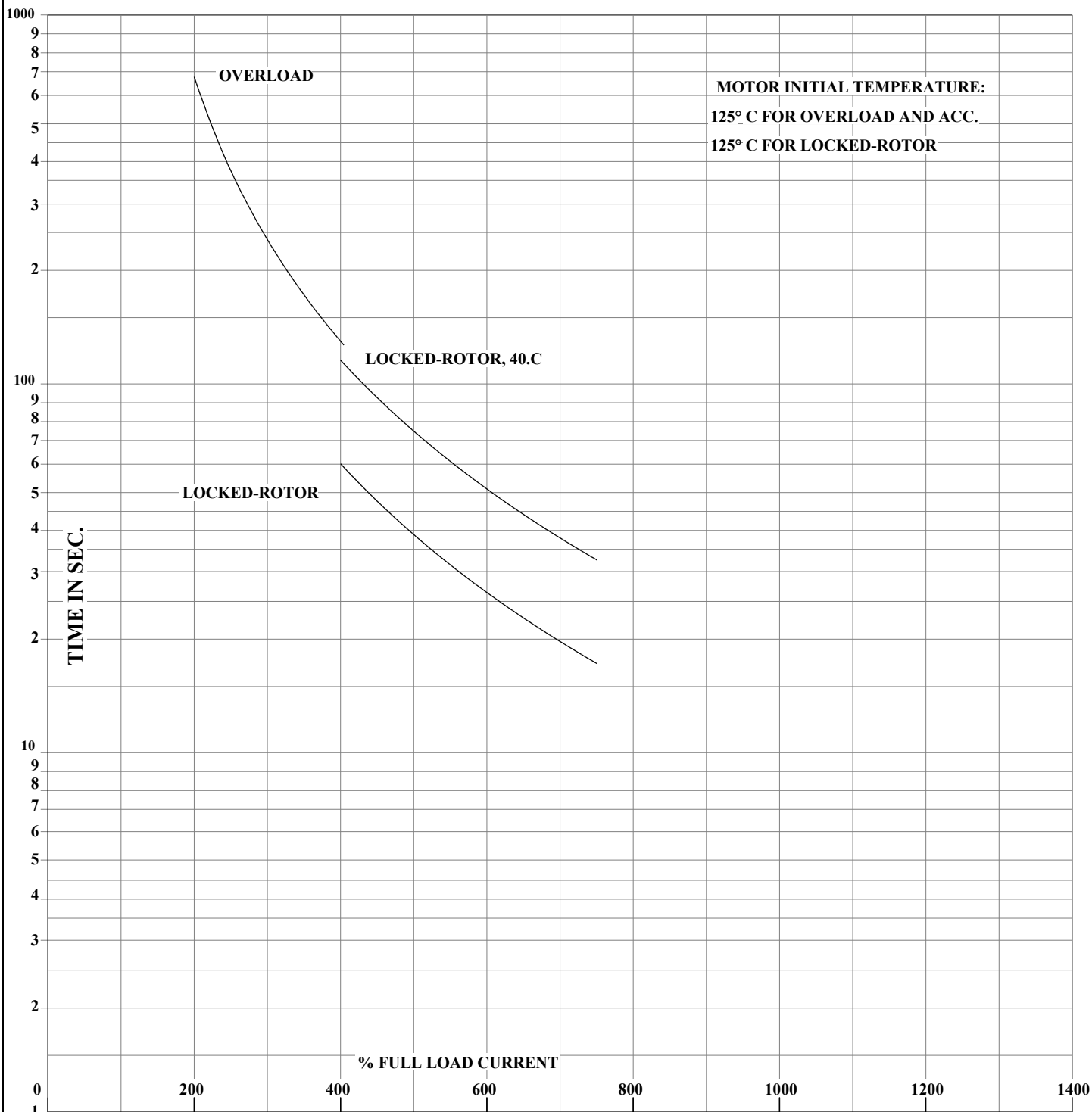
ENCLOSURE TEFC

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.

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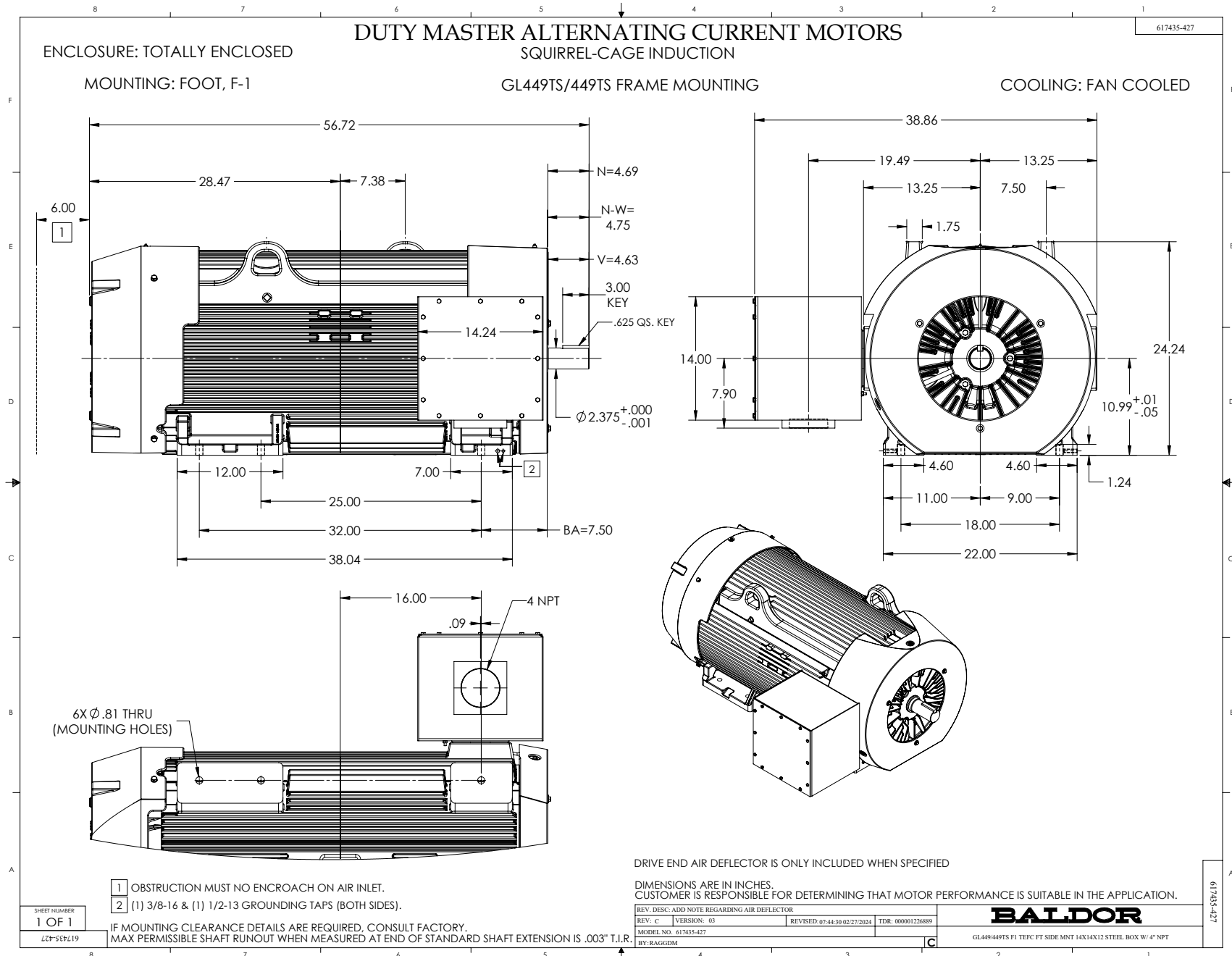


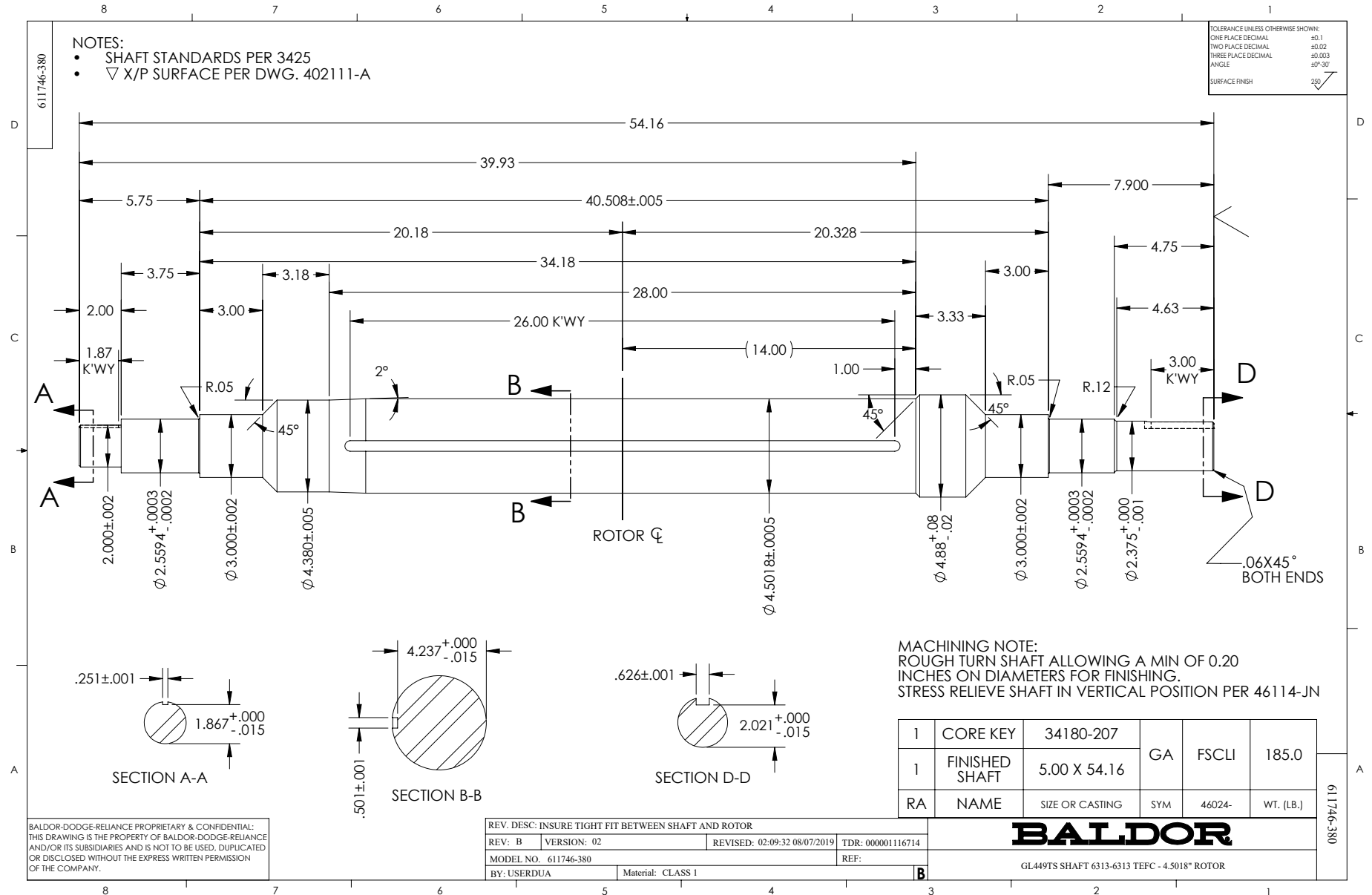
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AC MOTOR
PERFORMANCE
DATA

A44WG5211-R002

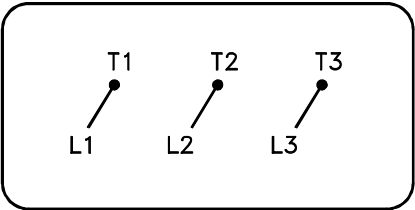
ISSUE DATE 10/14/24





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