

ABB BALDOR RELIANCE III

Customer information packet

ECP44302T-4

300HP, 3570RPM, 3PH, 60HZ, 449TS, A44128M, TEF

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	449TS
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	300.000 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	318.000 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
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	318.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

Revision	W
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1242
Layout	617427-006
Eff. date	03-31-2026
CD Diagram	416820-036
Poles	02
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Standards	NEMA
Motor Type	A44128M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	49.71 IN
Power Factor	91
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	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238													
CAT NO	ECP44302T-4			SPEC NO.		P44G3953							
HP	300	AMPS	318	VOLTS		460			DESIGN	B			
FRAME	449TS	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			91	NEMA NOM EFFICIENCY			96.2		
3/4 LOAD EFF.	96.5	MAX CORR KVAR			30.0		GUARANTEED EFFICIENCY			95.8			
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									

ECP44302T-4 - 300HP, 3570RPM, 3PH, 60HZ, 449TS, A44128M, TEF							
CUSTOMER INFORMATION PACKET		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
		449TS	300	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE	
318	CONT	40/F	1.15	B	G	TEFC	
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)			
833183	418143-3SE	---	---	.00934			
PERFORMANCE							
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY		
NO LOAD	0	59.8	3600	6.29	0		
1/4	75.0	109	3593	68.4	94.3		
2/4	150	171	3586	85.3	96.3		
3/4	225	242	3578	90.2	96.5		
4/4	300	318	3571	91.7	96.4		
5/4	375	399	3562	91.6	96.0		
SPEED TORQUE							
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR		0	159	703	2149		
PULL UP		1620	142	627	1977		
BREAKDOWN		3464	274	1208	1062		
FULL LOAD		3571	100	441	318		
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% GUAR. MIN. EFF. - 95.8%							
		DRAWN BY: <u>J.J.HARRISON</u> CHECKED BY: <u>W.L.SMITH</u> APPROVED BY: <u>W.L.SMITH</u> DATE: <u>08/04/10</u>		AC MOTOR PERFORMANCE DATA		A44WG1242-R001	
						DATE ISSUED 03/30/20	

FRAME 449TS

RPM 3570

S.F. 1.15

ROTOR 48143-3SE

HP 300

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 318

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

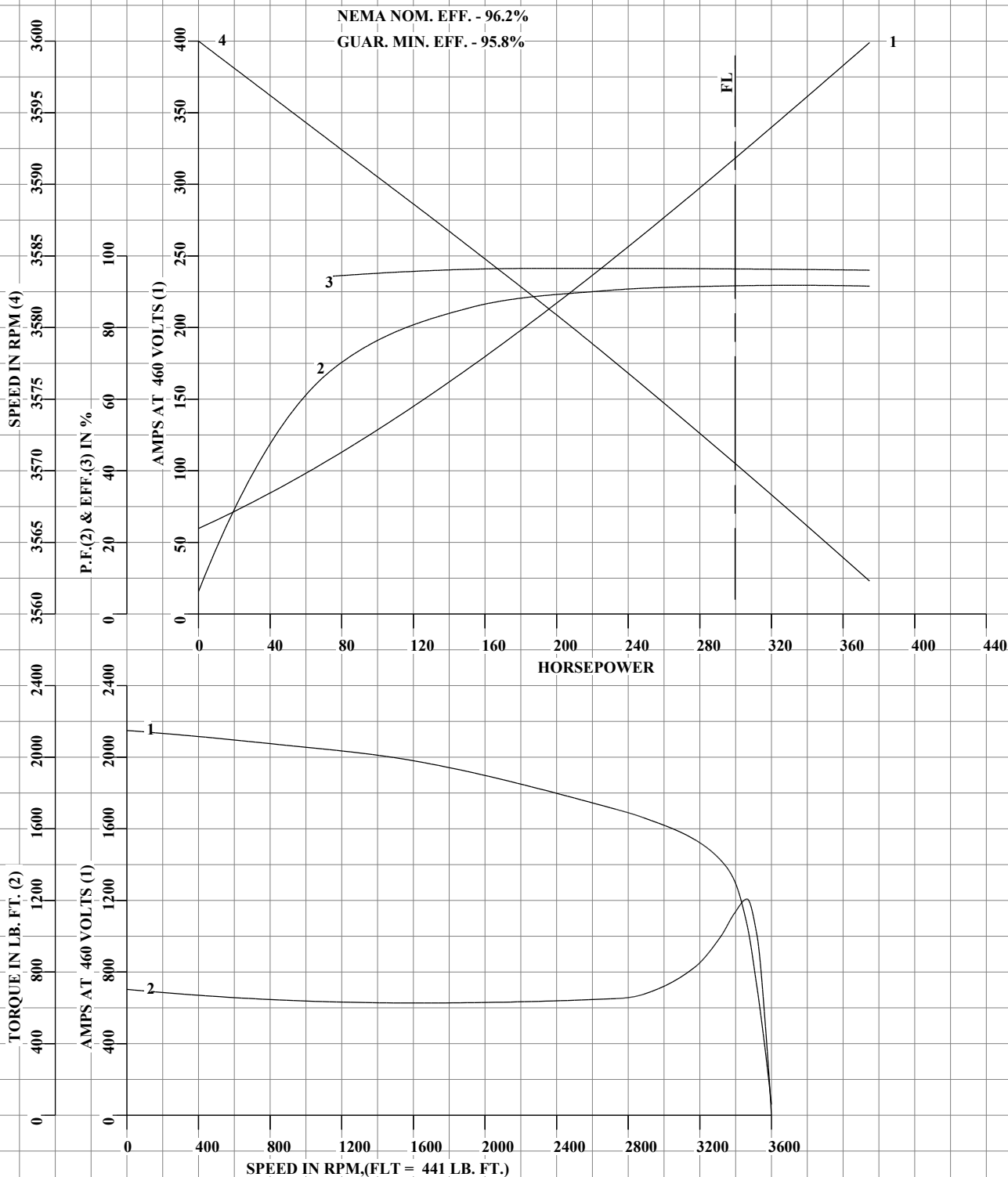
ENCLOSURE TEFC

STATOR RES. @ 25°C .00934

AMB °C / INSUL 40/F

E/S 833183

OHMS (BETWEEN LINES)



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AC MOTOR
 PERFORMANCE
 DATA

A44WG1242-R001

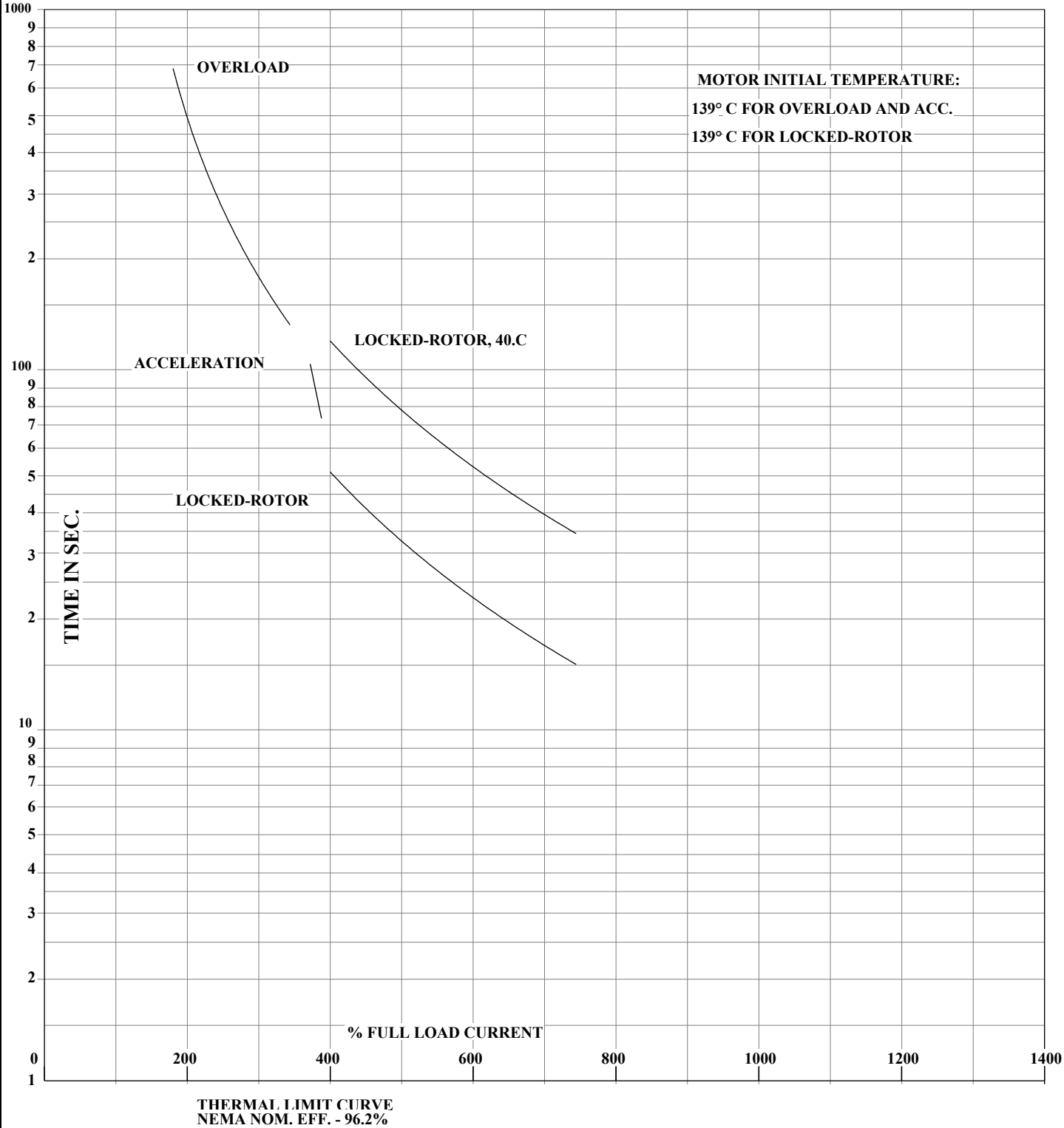
ISSUE DATE 03/30/2026

FRAME 449TS
HP 300
TYPE P
PHASE / HERTZ 3/60

RPM 3570
VOLTS 460
AMPS 318
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
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ROTOR 48143-3SE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .00934
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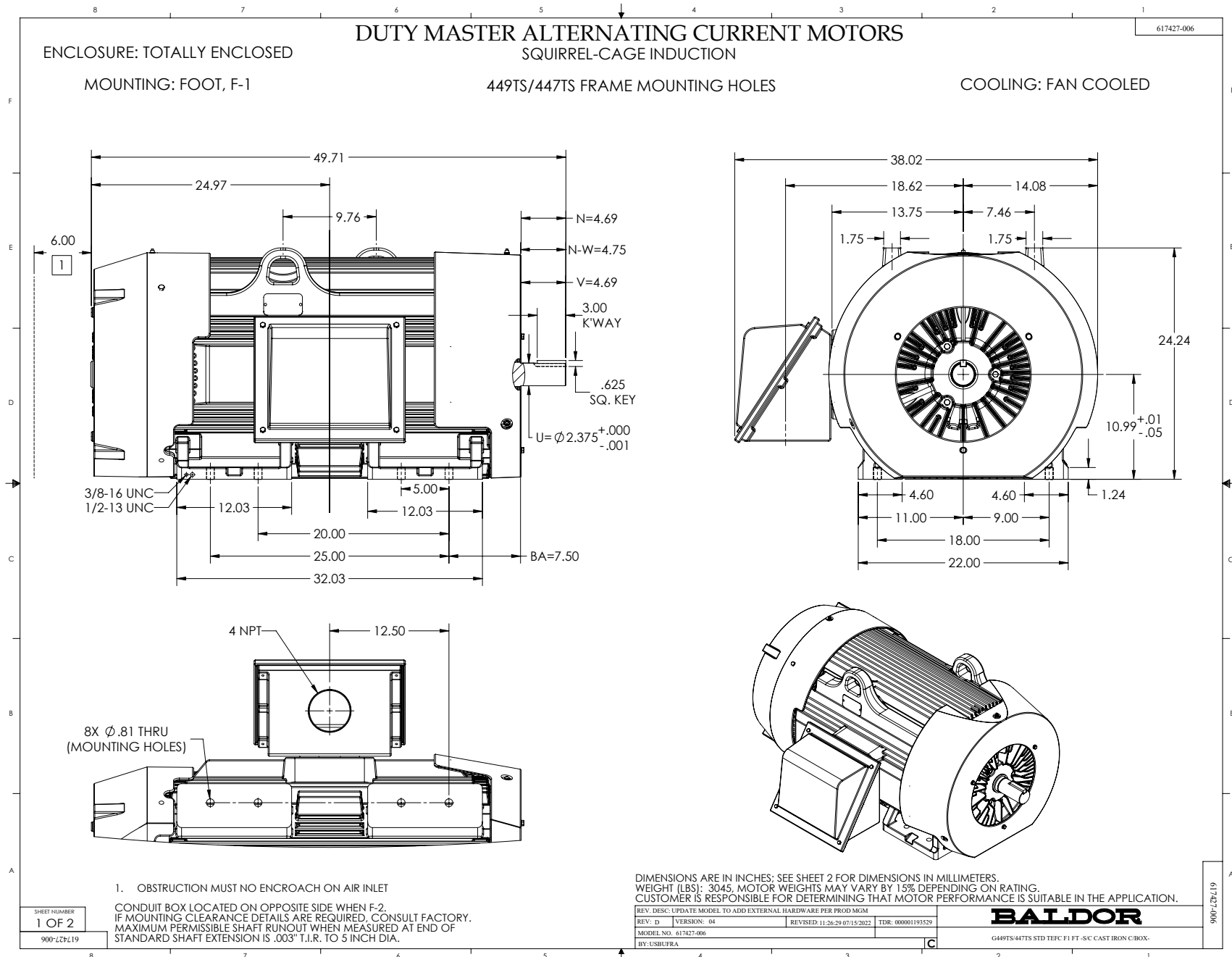


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AC MOTOR
PERFORMANCE
DATA

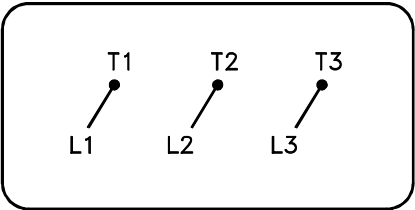
A44WG1242-R001

ISSUE DATE 03/30/2026



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