

ABB BALDOR RELIANCE III

Customer information packet

ECP44252T-4

250HP, 3570RPM, 3PH, 60HZ, 449TS, A44112M, 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	250.000 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	269.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	269.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

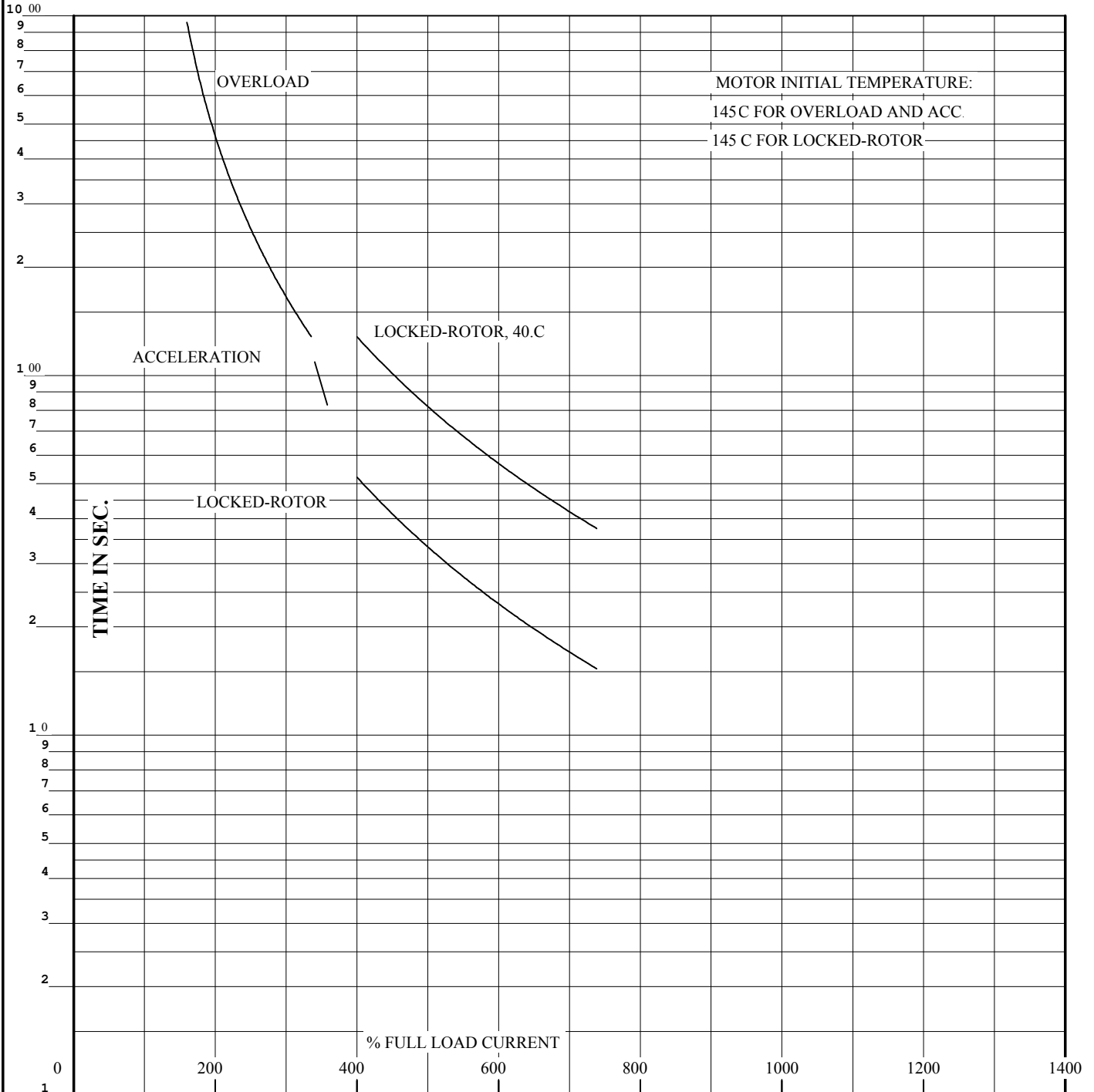
Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1559
Layout	617427-006
Eff. date	12-17-2025
CD Diagram	416820-036
Poles	02
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Standards	NEMA
Motor Type	A44112M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	49.71 IN
Power Factor	90
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	ECP44252T-4			SPEC NO.		P44G3950							
HP	250	AMPS	269	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			90	NEMA NOM EFFICIENCY			95.8		
3/4 LOAD EFF.	96.3	MAX CORR KVAR			28.0	GUARANTEED EFFICIENCY			95.4				
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									

REL. S.O.	RPM 3570	S.F. 1.15	ROTOR 418138004LE
FRAME 449TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 269	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0115
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833154	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 PCT.

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

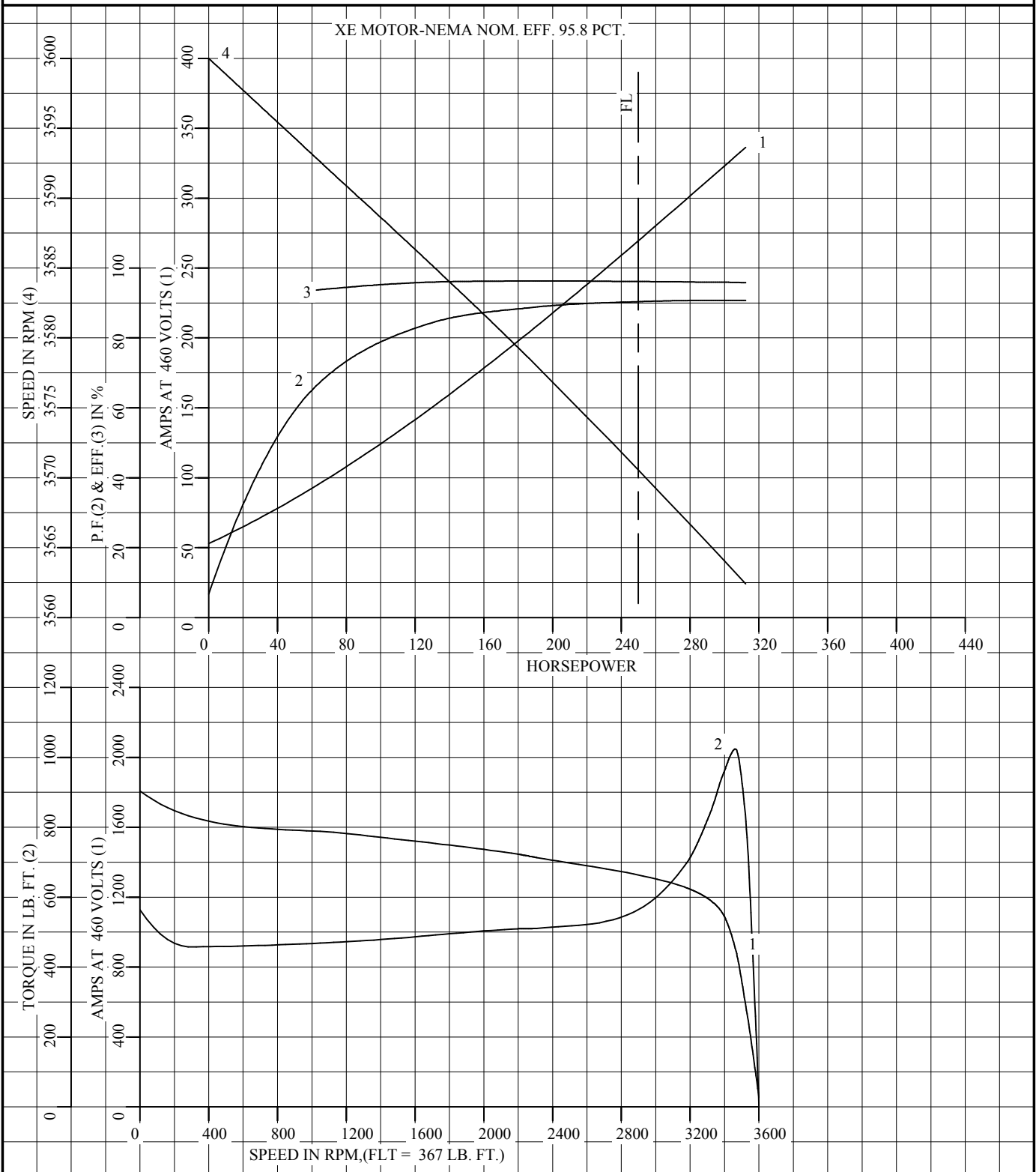

DR. BY	W.L. SMITH
CK. BY	J.J. HARRISON
APP. BY	W.L. SMITH
DATE	04/07/10

**A-C MOTOR
PERFORMANCE
CURVES**
A44WG1559-R001

ISSUE DATE 03/04/2014 Page 5 of 10

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449TS	250	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
269	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
833154	418138004LE	---	---	.0115		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	53.0	3600	6.73	0	
1/4	62.5	94.2	3593	66.3	93.7	
2/4	125	146	3586	83.6	95.9	
3/4	187	206	3578	88.7	96.3	
4/4	250	269	3571	90.4	96.2	
5/4	312	336	3562	90.7	95.8	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	154	564	1806		
PULL UP	288	125	458	1663		
BREAKDOWN	3464	279	1024	903		
FULL LOAD	3571	100	367	269		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 95.8 PCT.						
		DR. BY W. L. SMITH		A-C MOTOR PERFORMANCE DATA A44WG1559-R001 ISSUE DATE 03/04/20		
		CK. BY J. J. HARRISON				
		APP. BY W. L. SMITH				
		DATE 04/07/10				
Page 6 of 1						

REL S.O.	RPM 3570	S.F. 1.15	ROTOR 418138004LE
FRAME 449TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 269	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0115
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833154	OHMS (BETWEEN LINES)



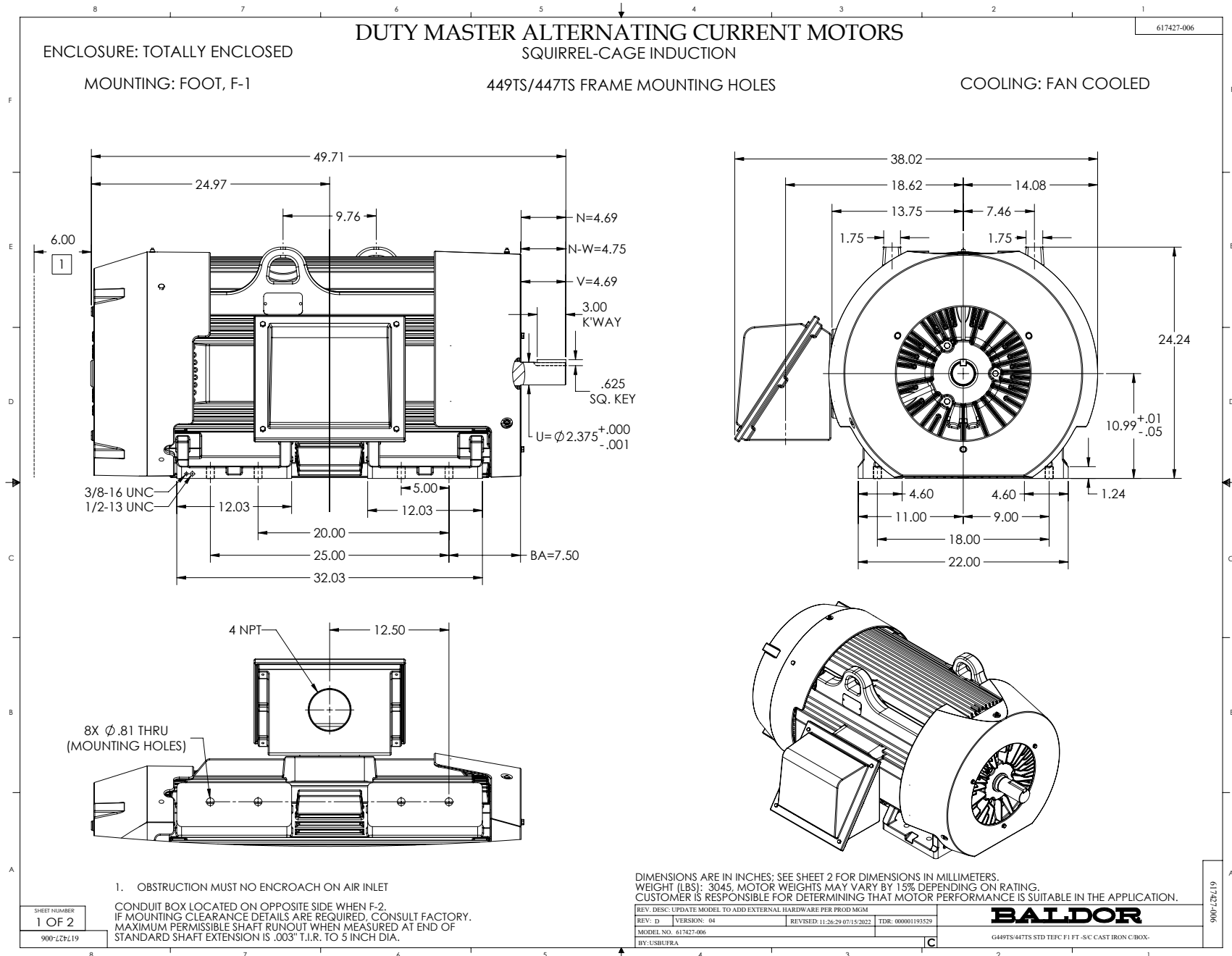
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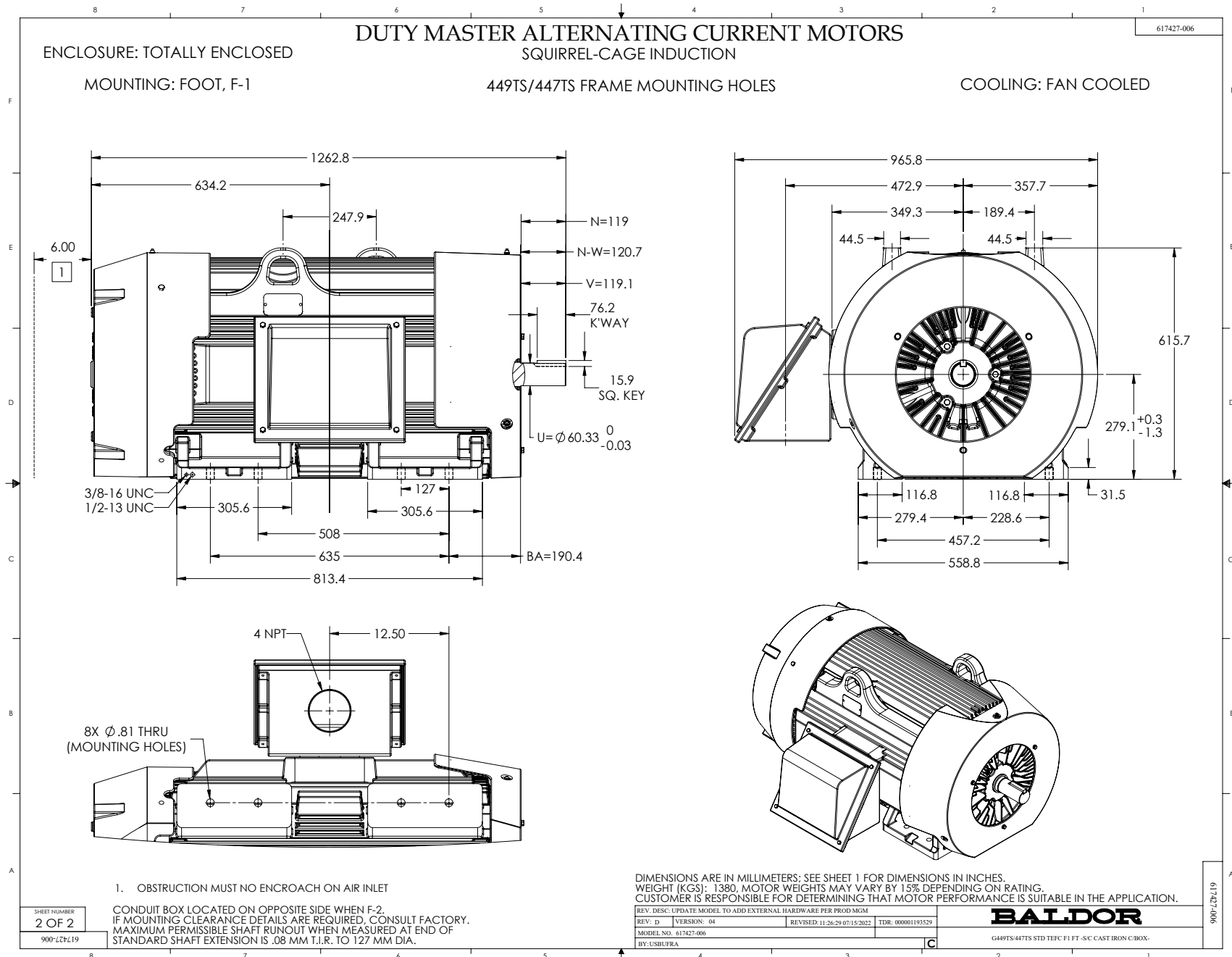
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY J. J. HARRISON
APP. BY W. L. SMITH
DATE 04/07/10

**A-C MOTOR
PERFORMANCE
CURVES**

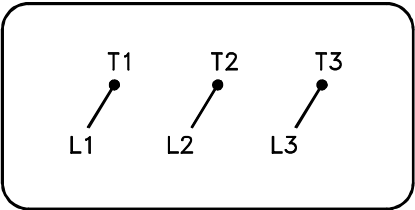
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ISSUE DATE 03/04/2014





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