

ABB BALDOR RELIANCE III

Customer information packet

EM4406TS-4

150HP, 1785RPM, 3PH, 60HZ, 445TS, A4488M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	445TS
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	169.000 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
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617435-049
Eff. date	10-06-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0 Y
Proprietary	False
Created date	08-13-2012

Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	41.08 IN
Power Factor	86
Product Family	Other
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L														
SPEC NO.	P44G3909			CAT.NO.		EM4406TS-4				FRAME	445TS			
HP	150	VOLTS		460	PHASE		3	DESIGN		B	TYPE	P		
RPM	1785	AMPS		169	HZ		60	AMB		40	SF	1.15		
DRIVE END BEARING	90BC03J30X			DUTY	CONT		INSUL.CLASS			F				
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC		CODE	F						
SER.NO.				POWER FACTOR			86		NEMA-NOM-EFFICIENCY			95.8		
						MAX CORR KVAR		30.0	GUARANTEED EFFICIENCY		95.0			
						NEMA NOM/CSA QUOTED EFF								
						MOTOR WEIGHT						2071		

Accessories

Part number	Description	Multiplier
089490106A	G28 C-FACE BRKT MACH-6318 089490105WCA	P1
089490110A	D-FLANGE BRKT, G28 089490109WCA	P1

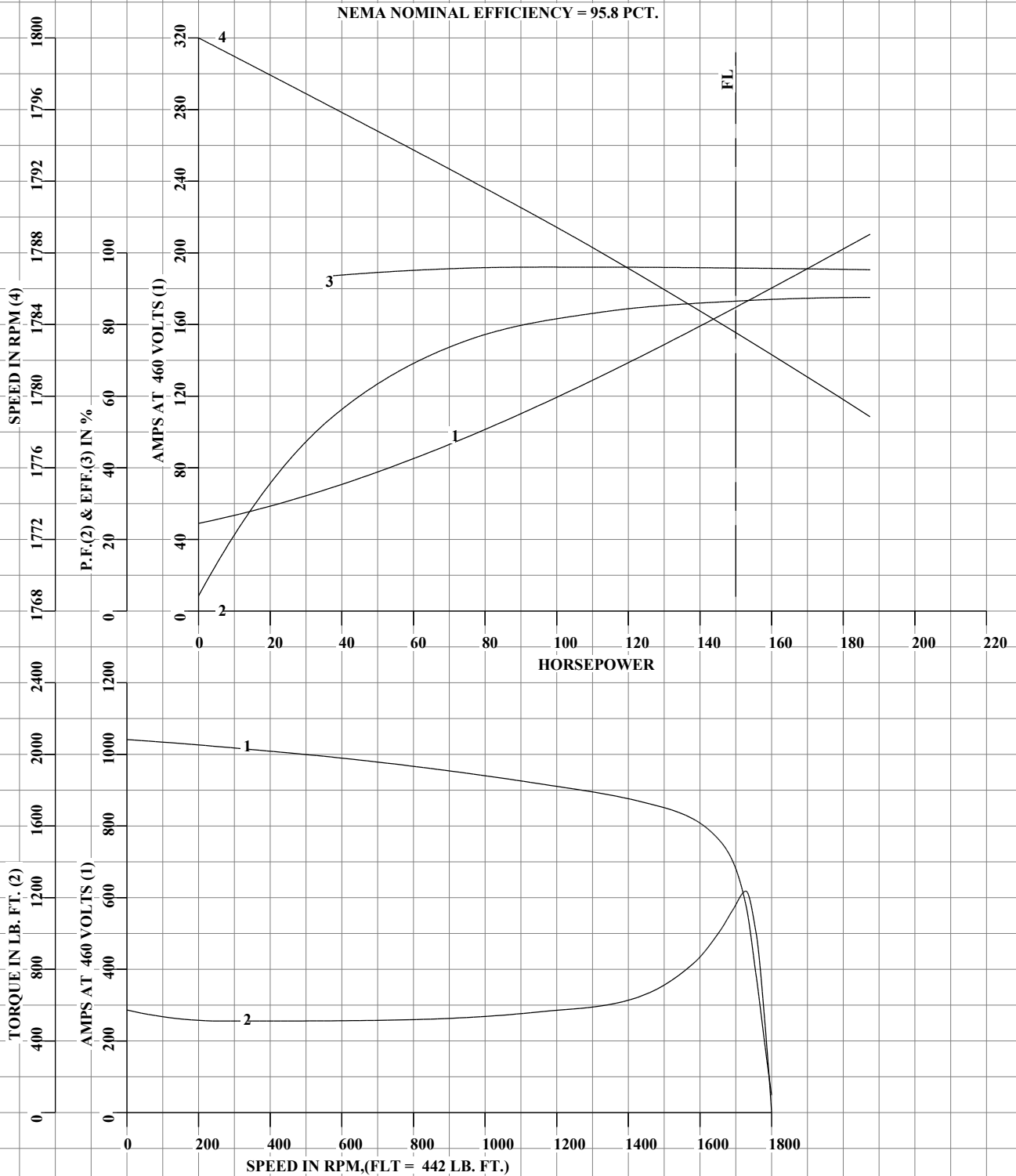
ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET		EM4406TS-4 - 150HP, 1785RPM, 3PH, 60HZ, 445TS, A4488M, TEFC		
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	150	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
169	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498808	418143053AE	---	---	.0298		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	48.9	1800	4.26	0	
1/4	37.6	69.1	1796	54.3	93.6	
2/4	75.0	97.1	1792	75.6	95.7	
3/4	112	131	1788	83.4	96.0	
4/4	150	169	1784	86.5	95.8	
5/4	188	210	1779	87.6	95.3	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	130	572	1041		
PULL UP	270	116	511	1020		
BREAKDOWN	1729	280	1237	579		
FULL LOAD	1784	100	442	169		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.8 PCT.						
ABB		DRAWN BY: C.B.ATANGANE CHECKED BY: C.E.JAMISON APPROVED BY: C.E.JAMISON DATE: 10/16/23		AC MOTOR PERFORMANCE DATA		A44WG3335-R001 DATE ISSUED 02/03/25

FRAME 445T
HP 150
TYPE P
PHASE / HERTZ 3/60

RPM 1785
VOLTS 460
AMPS 169
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER F
ENCLOSURE TEFC
E/S 498808

ROTOR 418143053AE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0298
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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DATE: 10/16/23

AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

ISSUE DATE 02/03/25

FRAME 445T

RPM 1785

S.F. 1.15

ROTOR 418143053AE

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 169

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

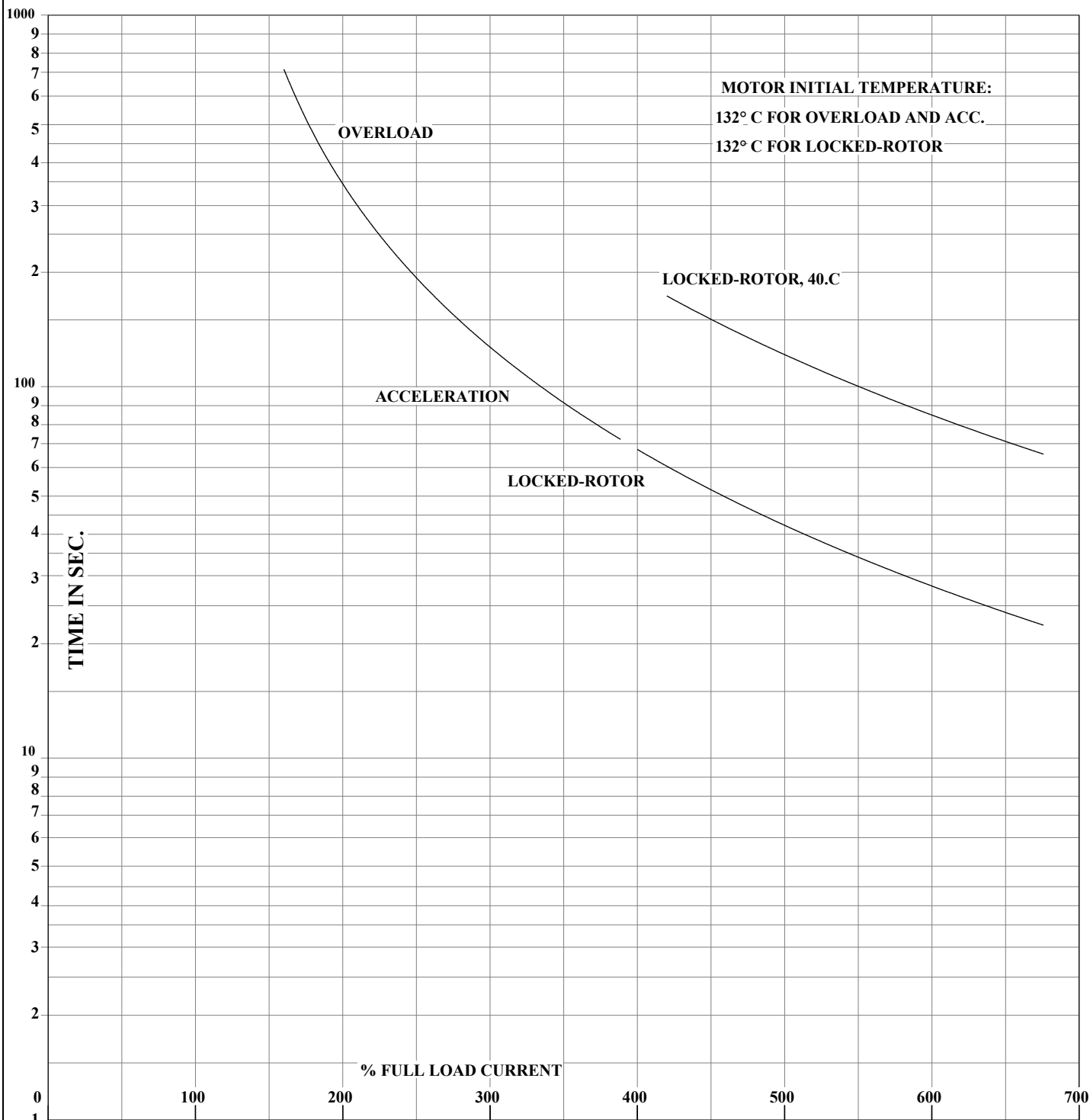
ENCLOSURE TEFC

STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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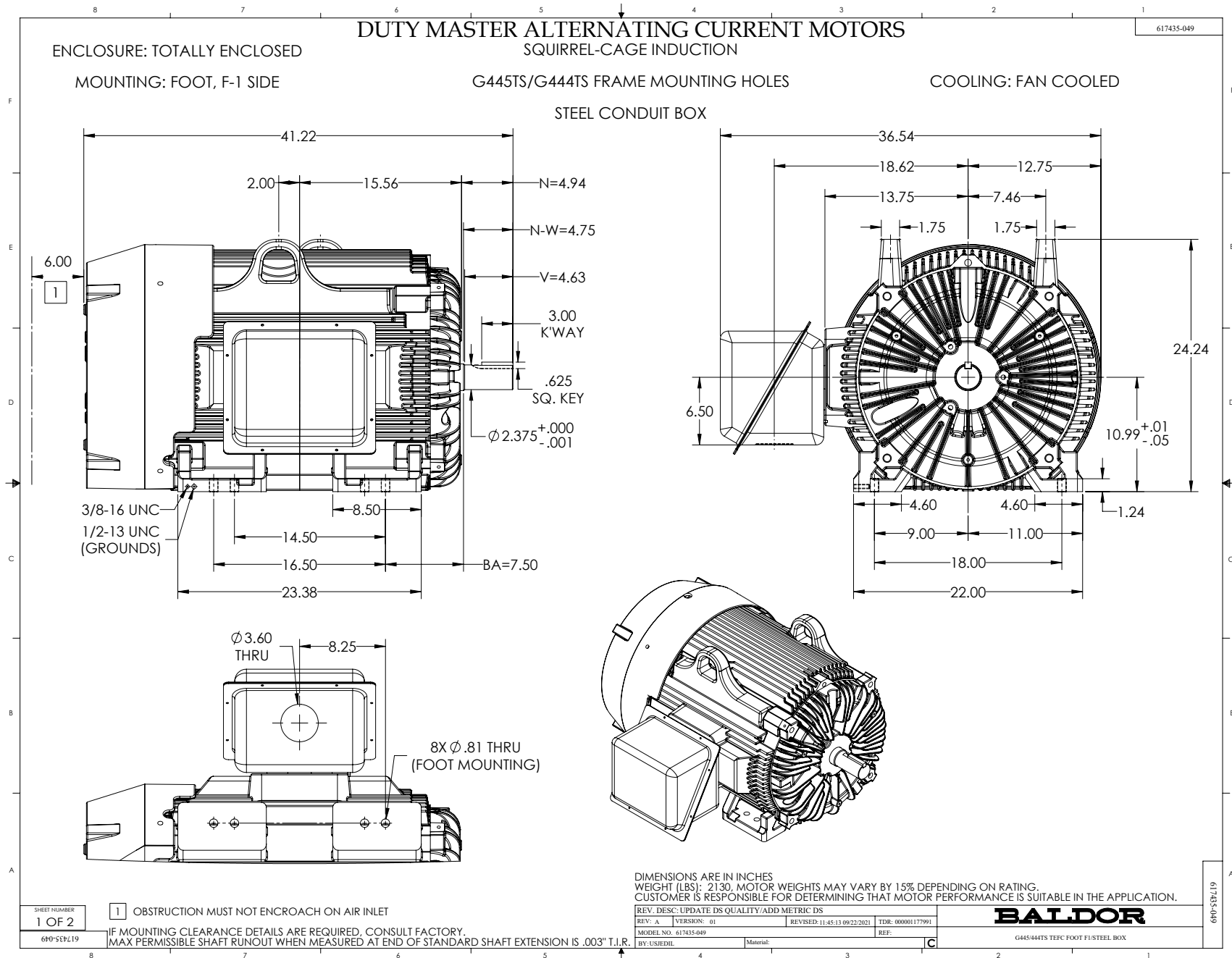


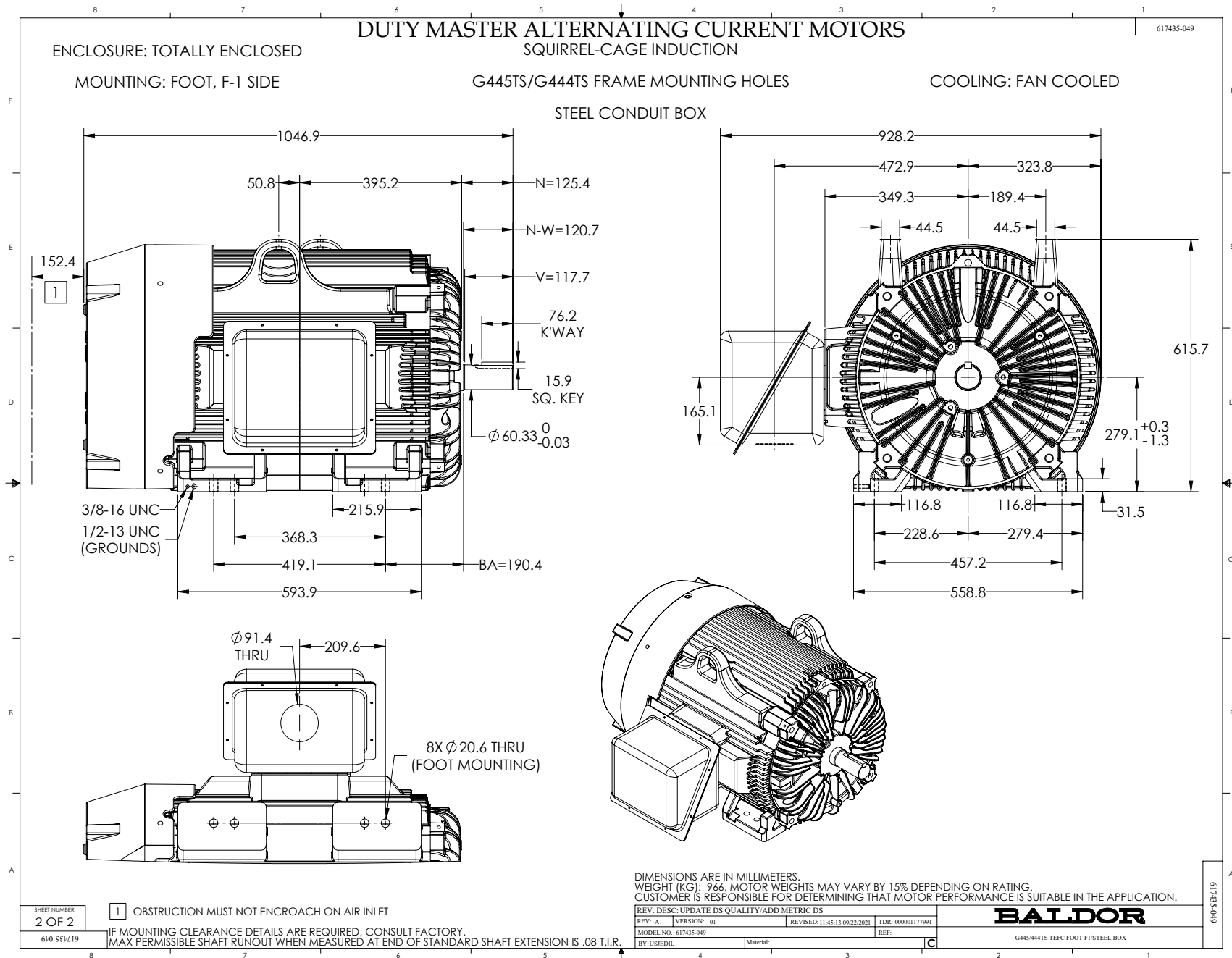
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AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

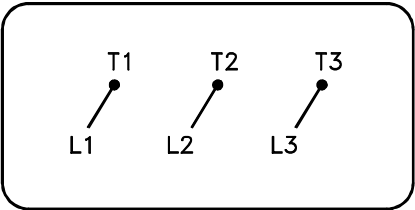
ISSUE DATE 02/03/25





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