

ABB BALDOR RELIANCE III

Customer information packet

EM4409T-4

100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	119.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44064M

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	08-13-2012

Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	82
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	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	P44G3900			CAT.NO.	EM4409T-4					FRAME	444T	
HP	100	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P			
RPM	1190	AMPS	119	HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	90BC03J30X			DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR		82	NEMA-NOM-EFFICIENCY				95	
						MAX CORR KVAR		27.0	GUARANTEED EFFICIENCY		94.1	
						NEMA NOM/CSA QUOTED EFF						
						MOTOR WEIGHT						

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						EM4409T-4 - 100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC					
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS						
	444T	100	P	3/60	1190	460						
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE						
119	CONT	40/F	1.15	B	G	TEFC						
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)								
497780	418143098VE	---	---	.0547								
PERFORMANCE												
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY							
NO LOAD	0	39.9	1200	4.01	0							
1/4	25.0	55.8	1197	45.5	92.5							
2/4	50.0	72.5	1194	68.0	95.0							
3/4	75.0	94.3	1191	78.0	95.3							
4/4	100	119	1188	82.5	95.0							
5/4	125	147	1184	84.3	94.4							
SPEED TORQUE												
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES								
LOCKED ROTOR	0	142	627	730								
PULL UP	168	126	558	717								
BREAKDOWN	1146	266	1175	438								
FULL LOAD	1188	100	442	119								
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 = 95.0 PCT.												
ABB		DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/06/10</u>		AC MOTOR PERFORMANCE DATA		A44WG3905-R001 DATE ISSUED 08/09/19						

FRAME 444T

RPM 1190

S.F. 1.15

ROTOR 418143098VE

HP 100

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 119

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

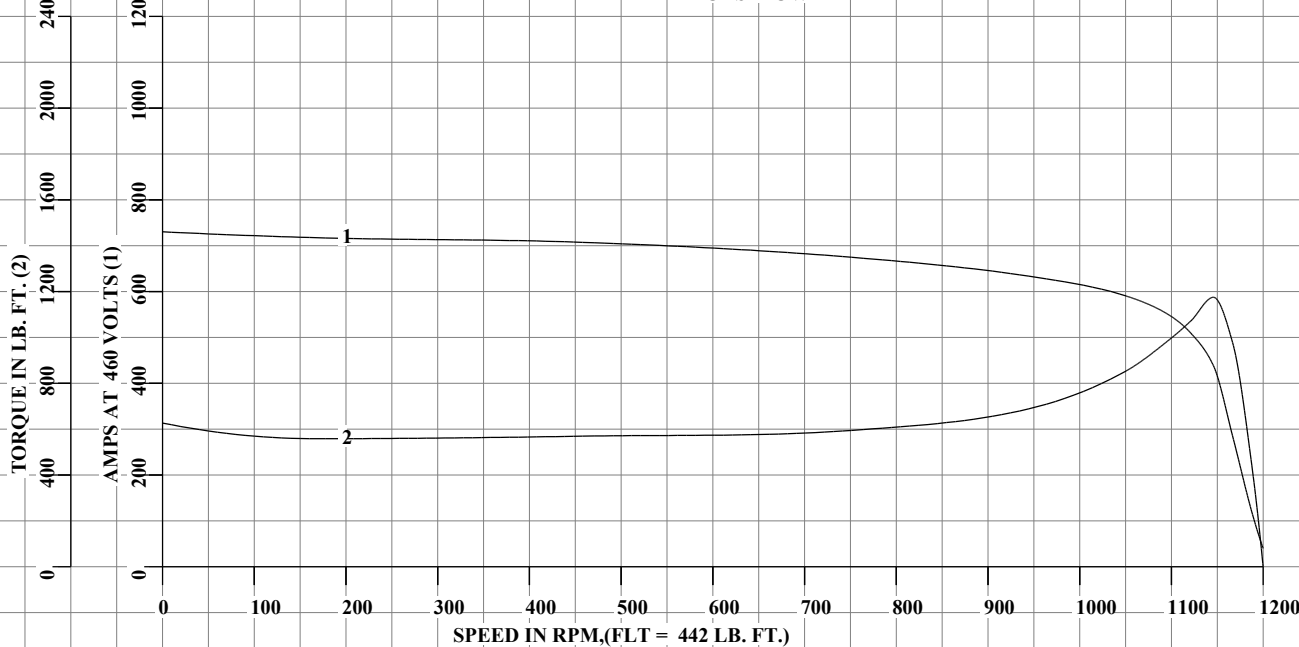
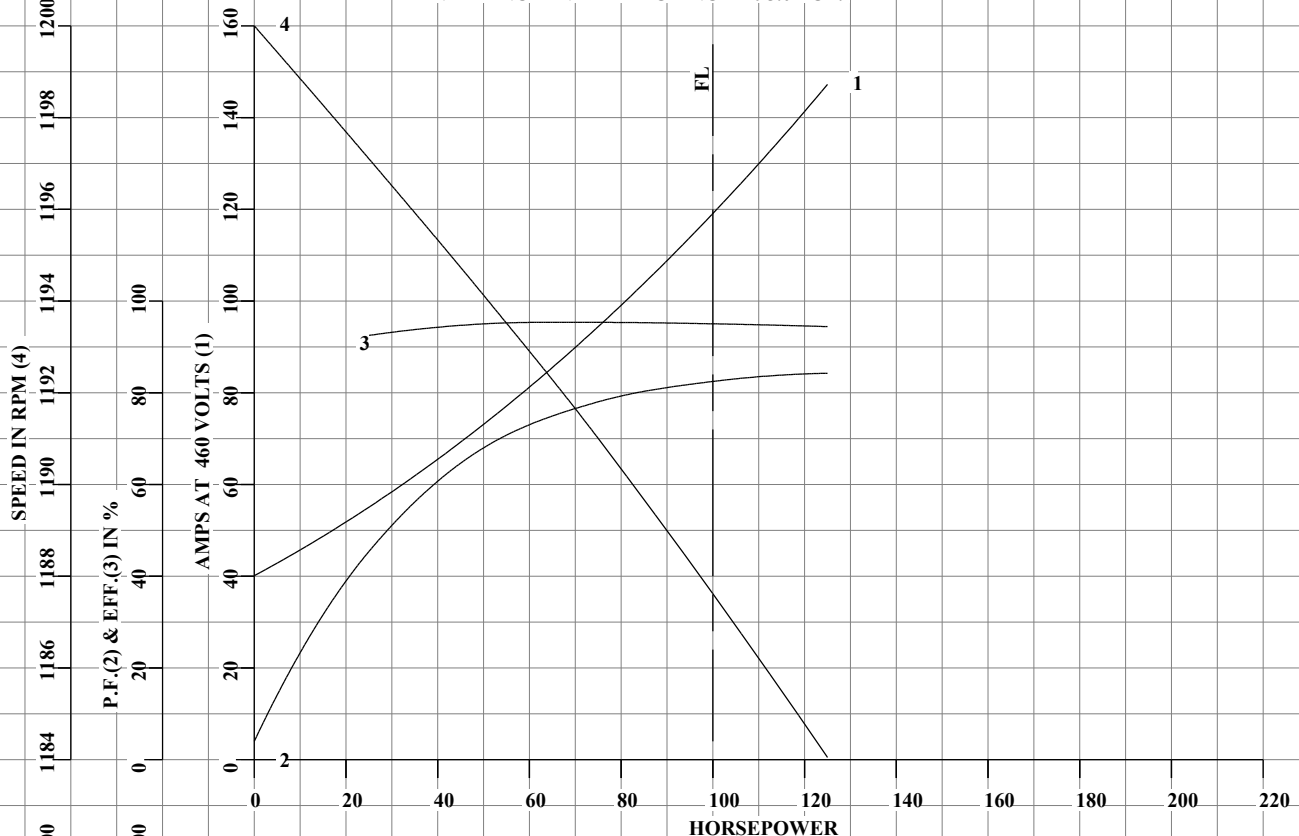
STATOR RES. @ 25°C .0547

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.0 PCT.



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



DRAWN BY: W. L. SMITH
CHECKED BY: J.J.HARRISON
APPROVED BY: W. L. SMITH
DATE: 12/06/10

AC MOTOR
PERFORMANCE
DATA

A44WG3905-R001

ISSUE DATE 08/09/19

FRAME 444T

RPM 1190

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 119

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

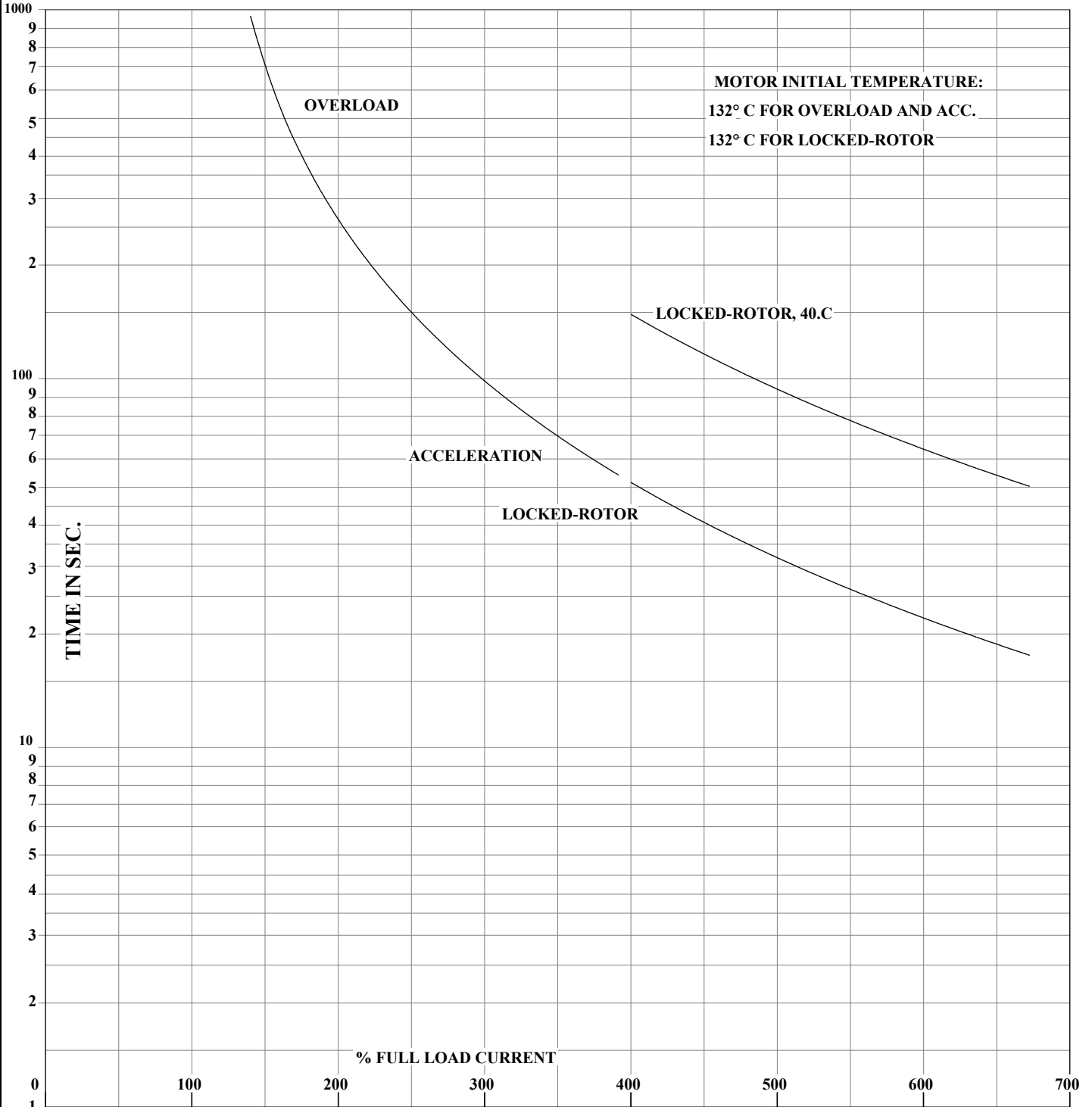
STATOR RES. @ 25°C .0547

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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

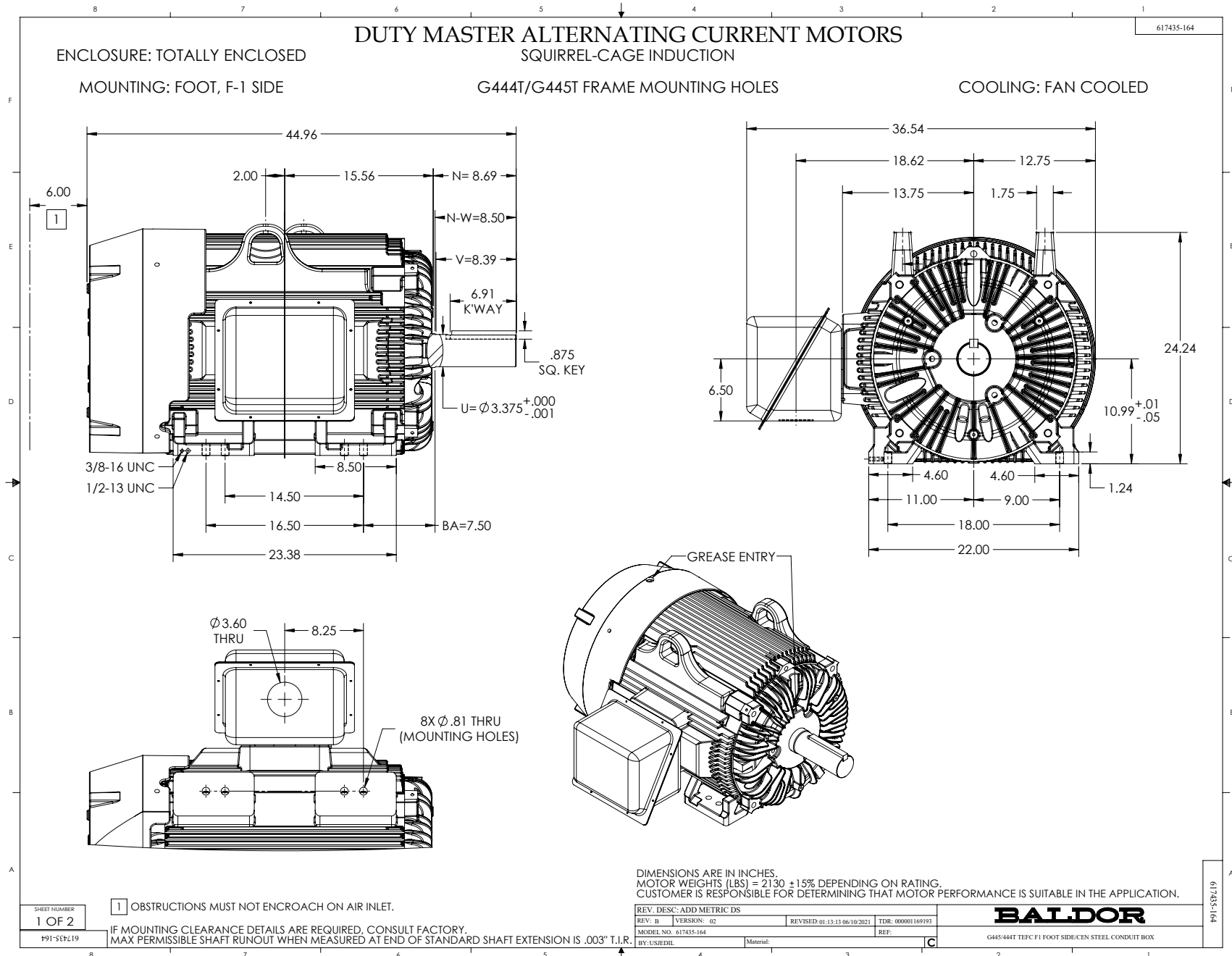


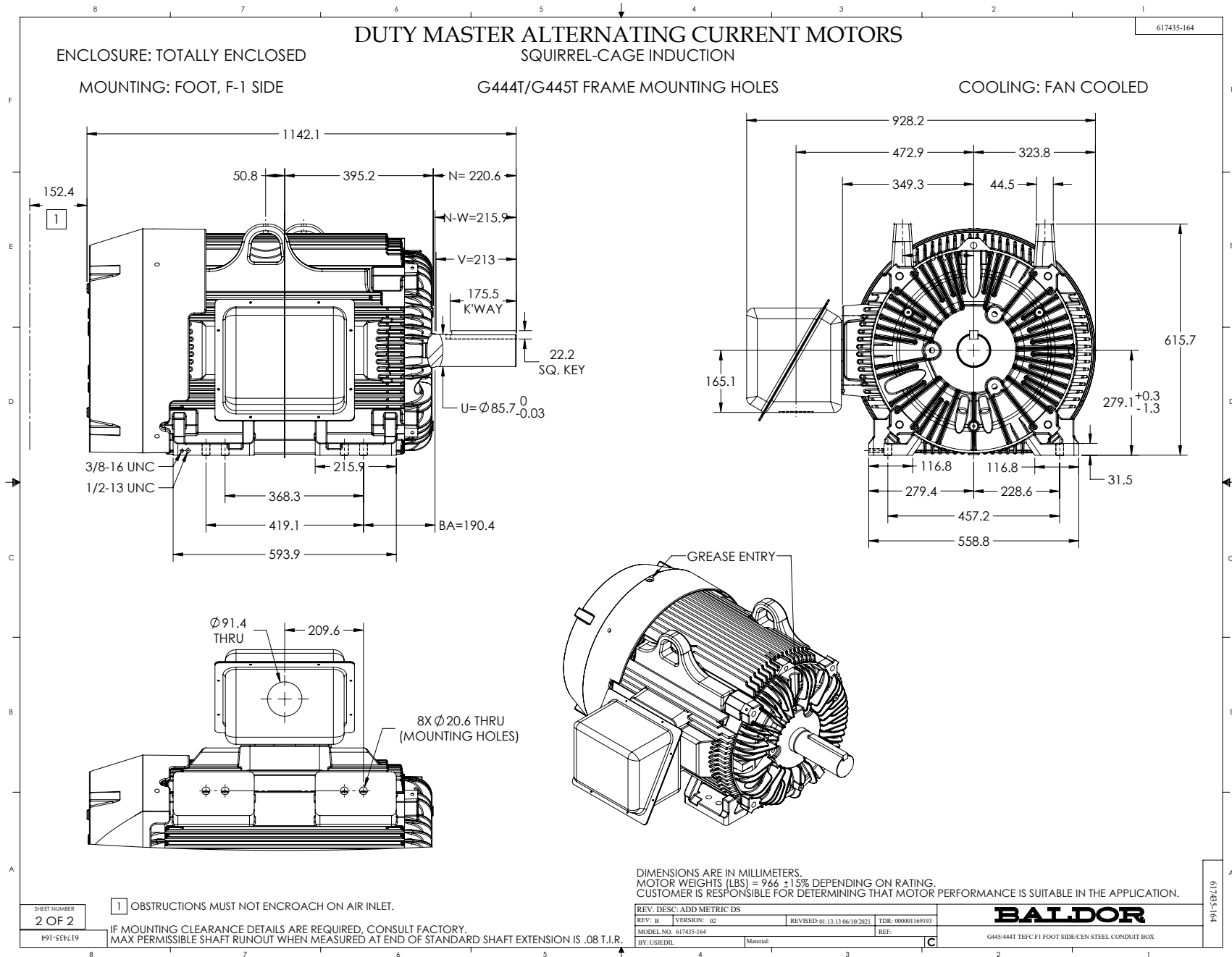
DRAWN BY: W. L. SMITH
CHECKED BY: J.J.HARRISON
APPROVED BY: W. L. SMITH
DATE: 12/06/10

AC MOTOR
PERFORMANCE
DATA

A44WG3905-R001

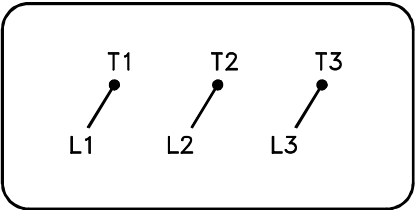
ISSUE DATE 08/09/19





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