

ABB BALDOR RELIANCE III

Customer information packet

ECP84409T-4

100HP, 1190RPM, 3PH, 60HZ, 0444T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	444T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	119.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	12-12-2018

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	None
Motor Type	A44064M
Mounting Arrangement	F1
No Load Current	39.4 a
Number of Poles	6
Overall Length	44.97 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	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566														
CAT NO	ECP84409T-4			SPEC NO.		A44-5000-3905								
HP	100	AMPS		119		VOLTS		460		DESIGN		B		
FRAME SIZE	444T	RPM		1190		HZ		60	AMB		40	SF 1.15		
D.E. BRG.DATA	6318			O.D.E. BRG.DATA			6318			PH 3		DUTY CONT INSUL.CLASS F		
D.E. BRG.	90BC03J30X			TYPE ENCL		TEFC		CODE G						
O.D.E. BRG.	90BC03J30X			POWER FACTOR			82		NEMA-NOM-EFFICIENCY			95		
3/4 LOAD EFF.	95.3	IP 56		MAX CORR KVAR				27.0		GUARANTEED EFFICIENCY			94.1	
TEMP CODE	T3	TEMP =		200										
CHP HZ	60-90	CT HZ		15-60		VT HZ		0-60						
INVERTER-TEMP-CODE	T3													
SER.NO.				MOTOR WEIGHT										

000613007EX				
CAT NO	ECP84409T-4	SPEC NO.	A44-5000-3905	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE	39.4	
5 YEAR WARRANTY		WINDING RES @25 C	.05474	OHMS
MFG. DATE		SER.NO		
	SFA 132			

ECP84409T-4 - 100HP, 1190RPM, 3PH, 60HZ, 0444T, TEFC, F1							
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET	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.							
		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 418F43098VE

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

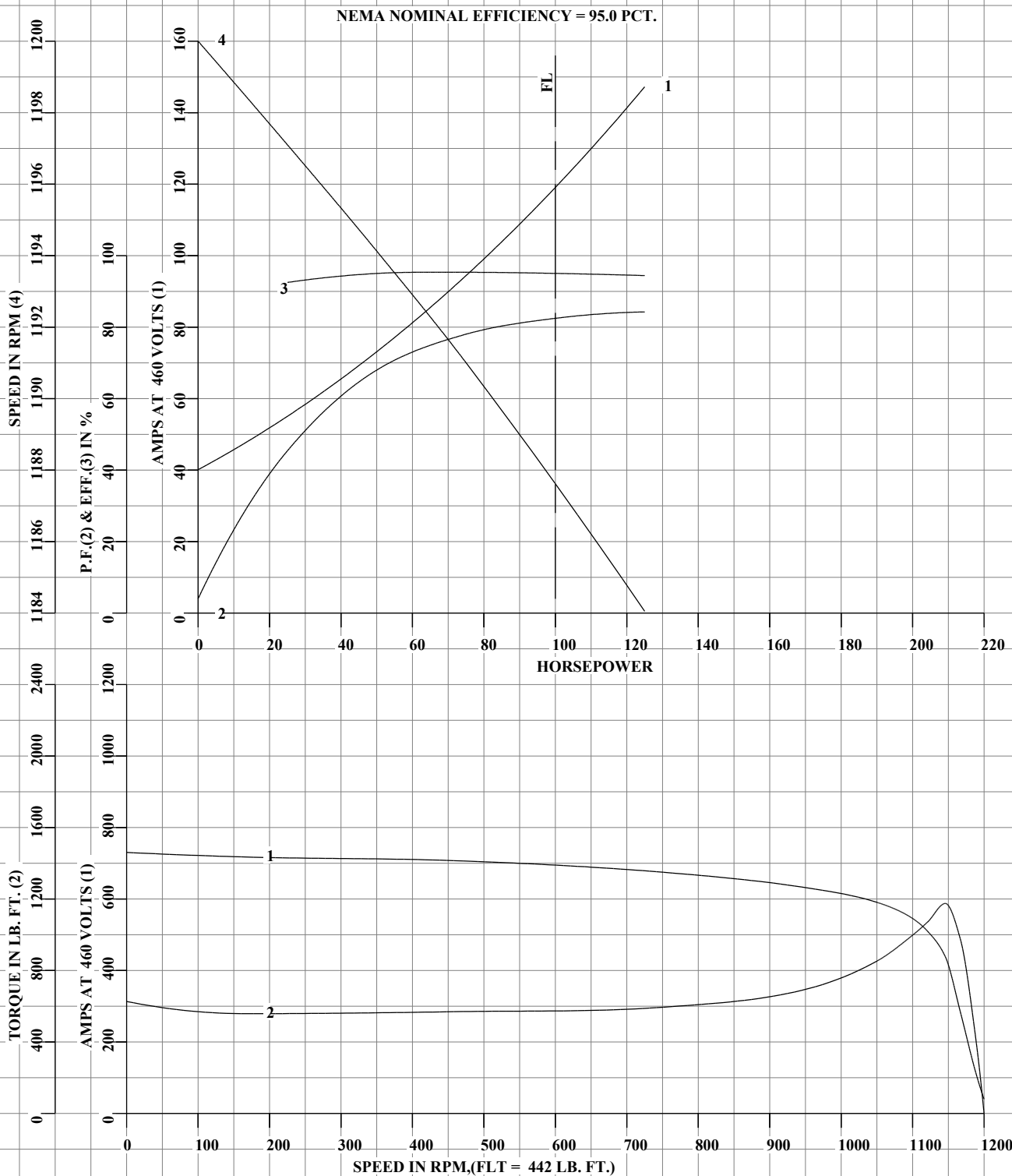
ENCLOSURE TEFC

STATOR RES. @ 25°C .0547

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)



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

AC MOTOR
PERFORMANCE
DATA

A44WG3905-R001

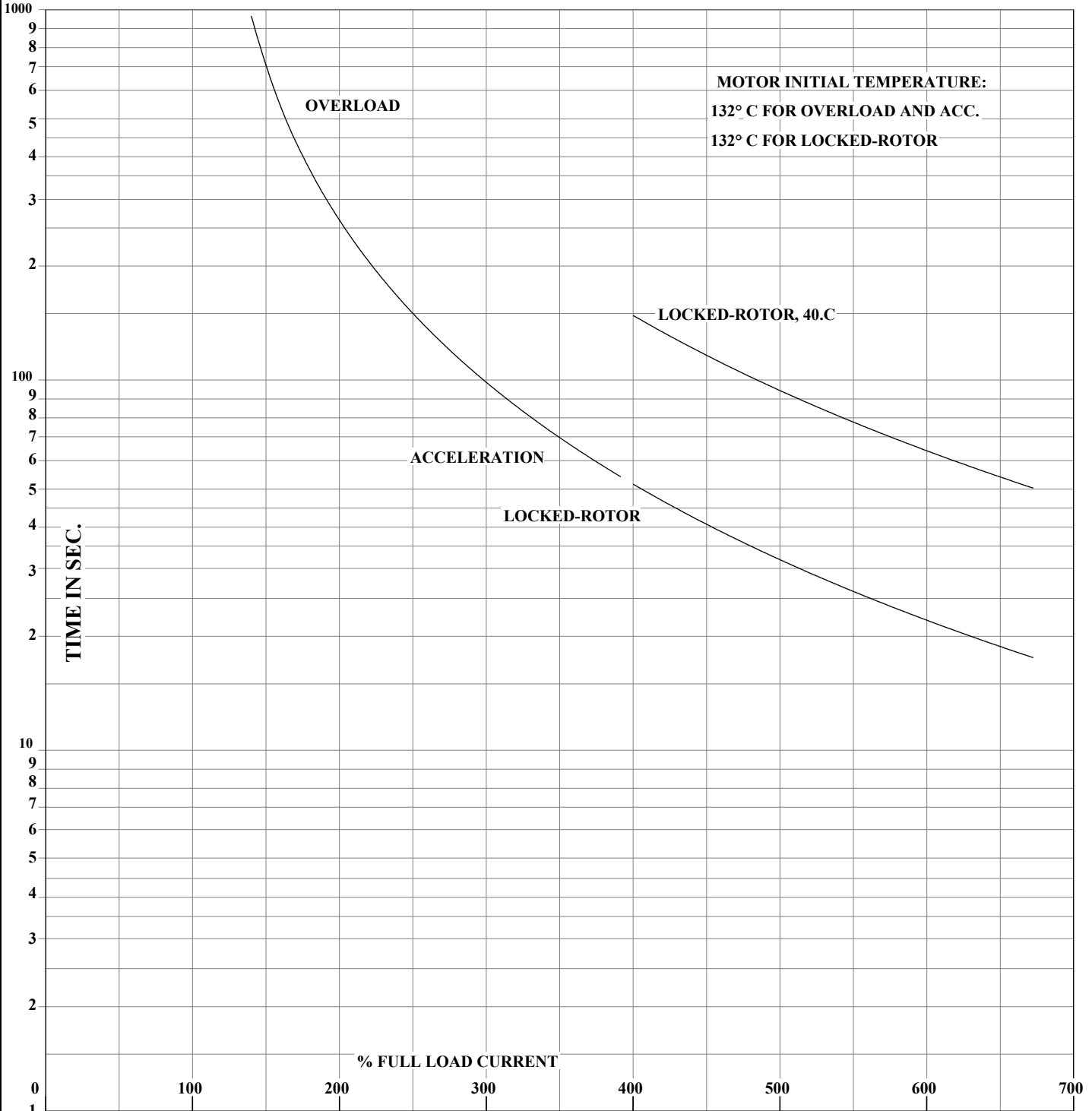
ISSUE DATE 08/09/19

FRAME 444T
HP 100
TYPE P
PHASE / HERTZ 3/60

RPM 1190
VOLTS 460
AMPS 119
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 497780

ROTOR 418F43098VE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0547
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.

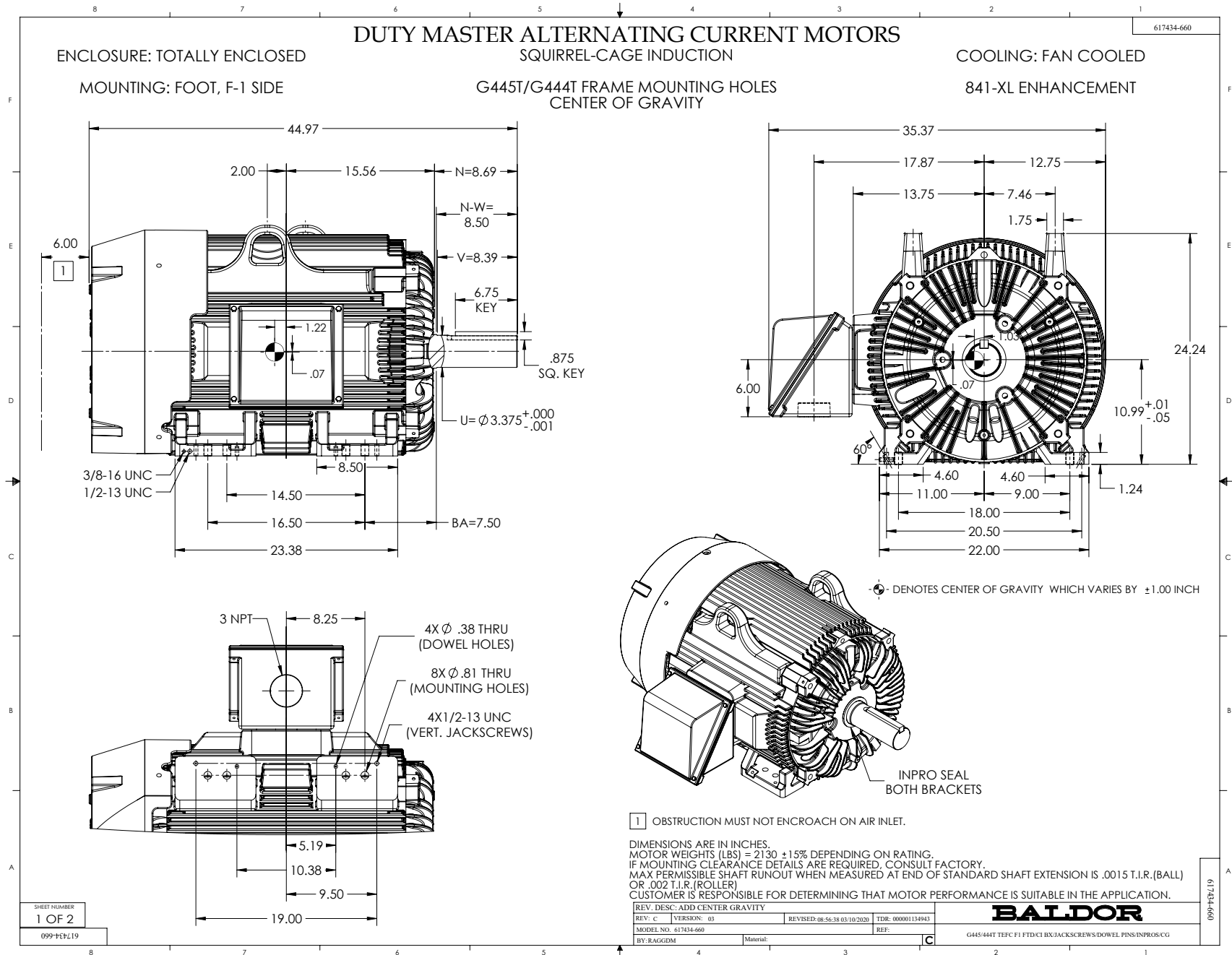


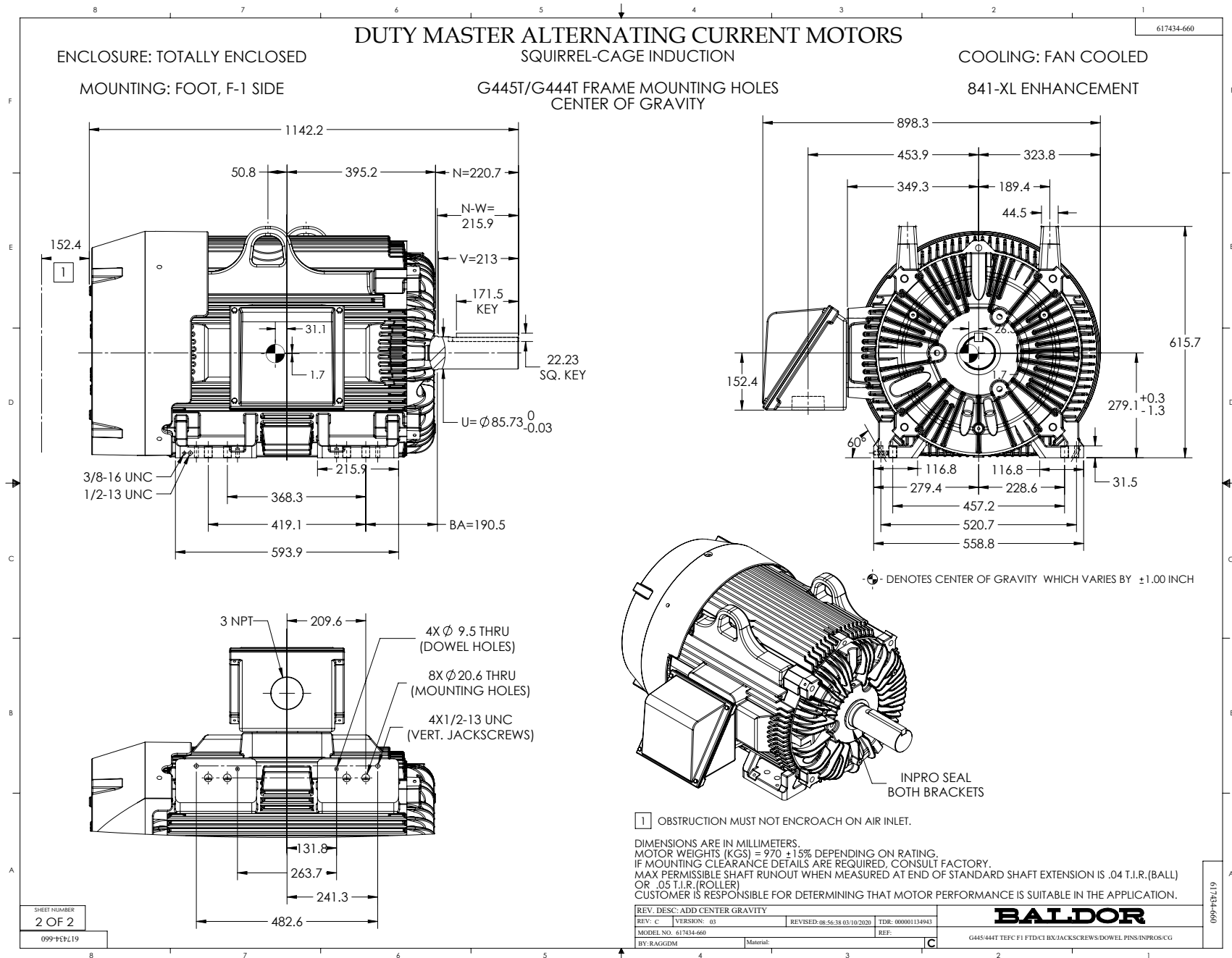
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AC MOTOR
PERFORMANCE
DATA

A44WG3905-R001

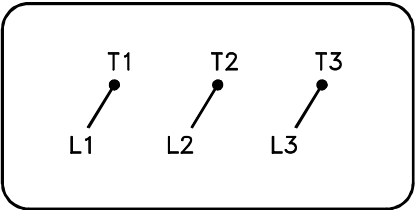
ISSUE DATE 08/09/19





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