

ABB BALDOR RELIANCE III

Customer information packet

ECP84406T-4

150HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445T
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	169.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	12-12-2018

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	None
Motor Type	A4488M
Mounting Arrangement	F1
No Load Current	48.9 a
Number of Poles	4
Overall Length	44.97 IN
Power Factor	86
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	Phase Seq-Std Rot (CCWODE)
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

NP4566													
CAT NO	ECP84406T-4			SPEC NO.		A44-9206-3335							
HP	150	AMPS		169		VOLTS		460		DESIGN		B	
FRAME SIZE	445T	RPM		1785		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 F					
O.D.E. BRG.	90BC03J30X			POWER FACTOR				86		NEMA-NOM-EFFICIENCY 95.8			
3/4 LOAD EFF.	96.1	IP 56		MAX CORR KVAR				30.0		GUARANTEED EFFICIENCY 95			
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	ECP84406T-4	SPEC NO.	A44-9206-3335	
NO. ROTOR BARS	58	GREASE TYPE	POLYREX EM	
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE	48.9	
5 YEAR WARRANTY		WINDING RES @25 C	.02982	OHMS
MFG. DATE		SER.NO		

ECP84406T-4 - 150HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1							
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET	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.							
		DRAWN BY: C.B.ATANGANE		AC MOTOR PERFORMANCE DATA	A44WG3335-R001		
		CHECKED BY: C.E.JAMISON					
		APPROVED BY: C.E.JAMISON					
		DATE: 10/16/23					
DATE ISSUED 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

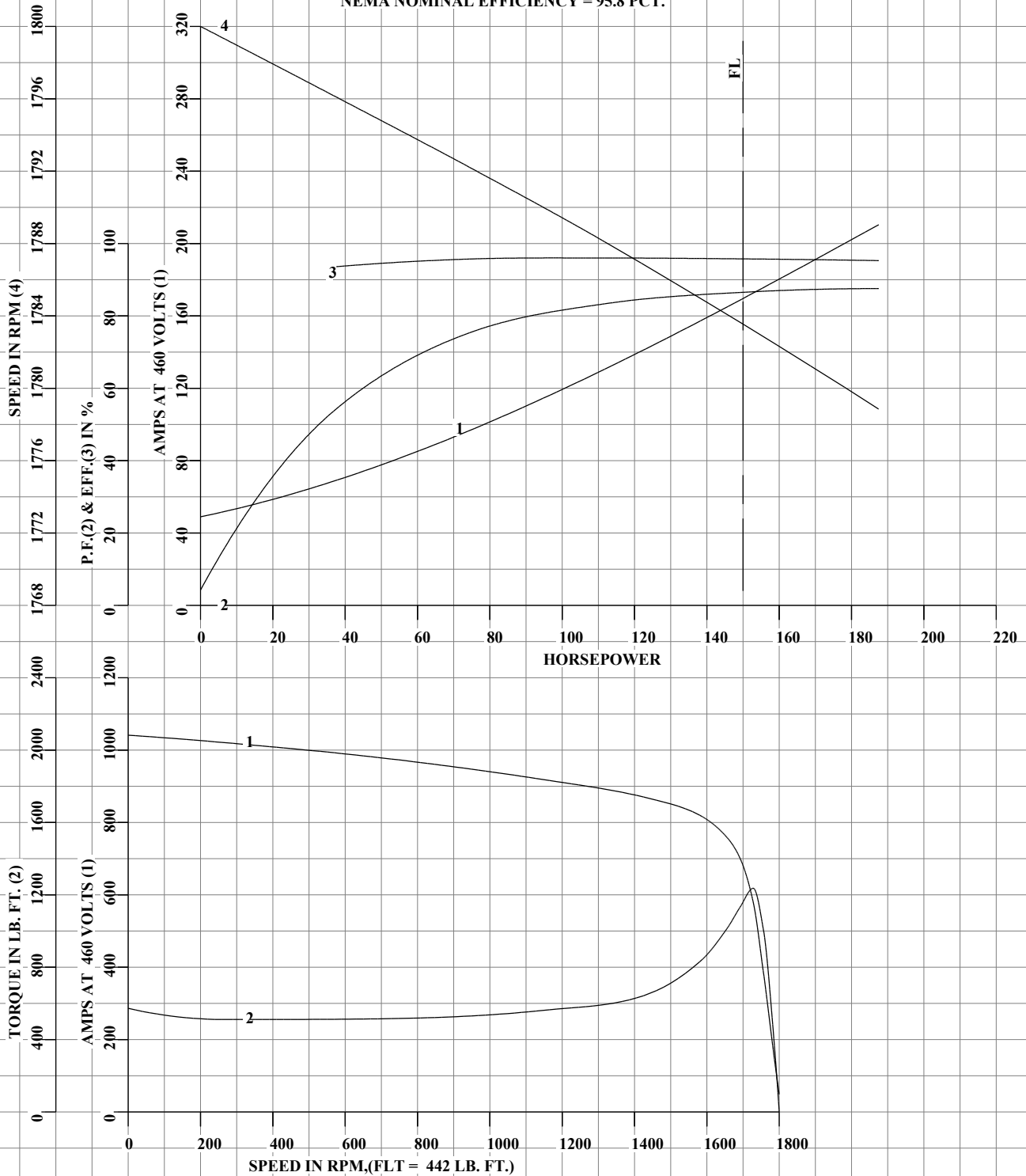
STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.8 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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CHECKED BY: C.E.JAMISON
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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

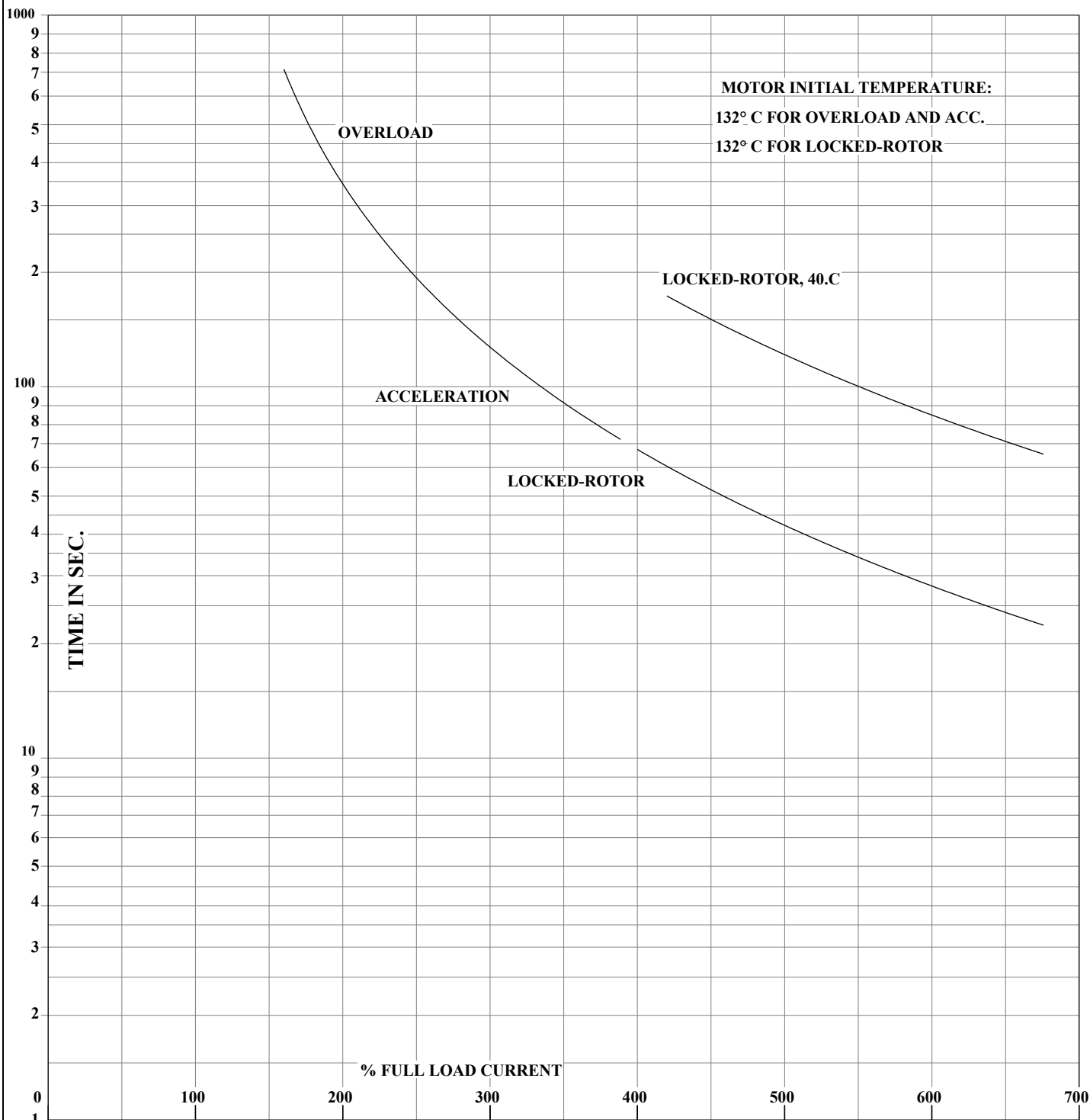
ENCLOSURE TEFC

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.

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

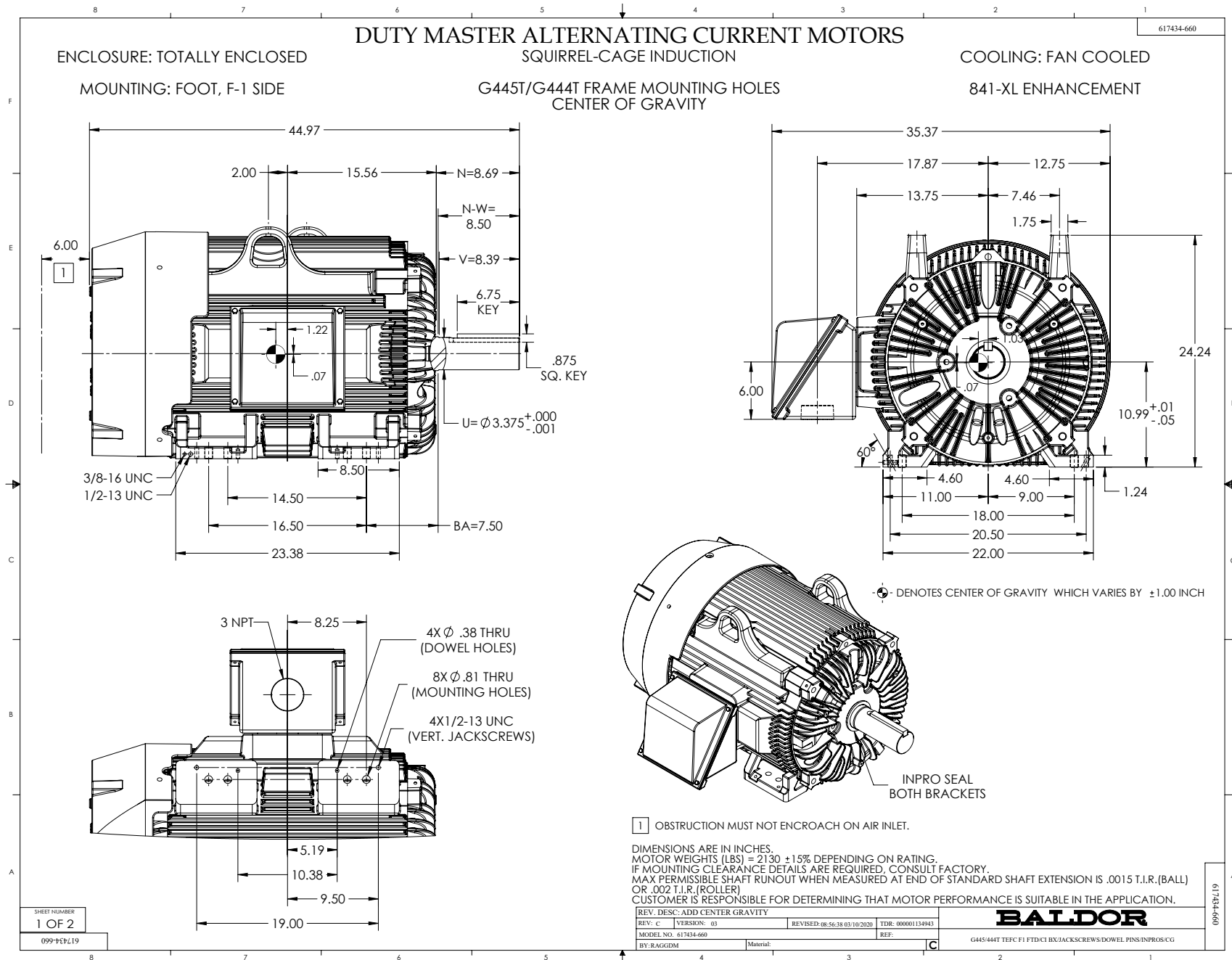


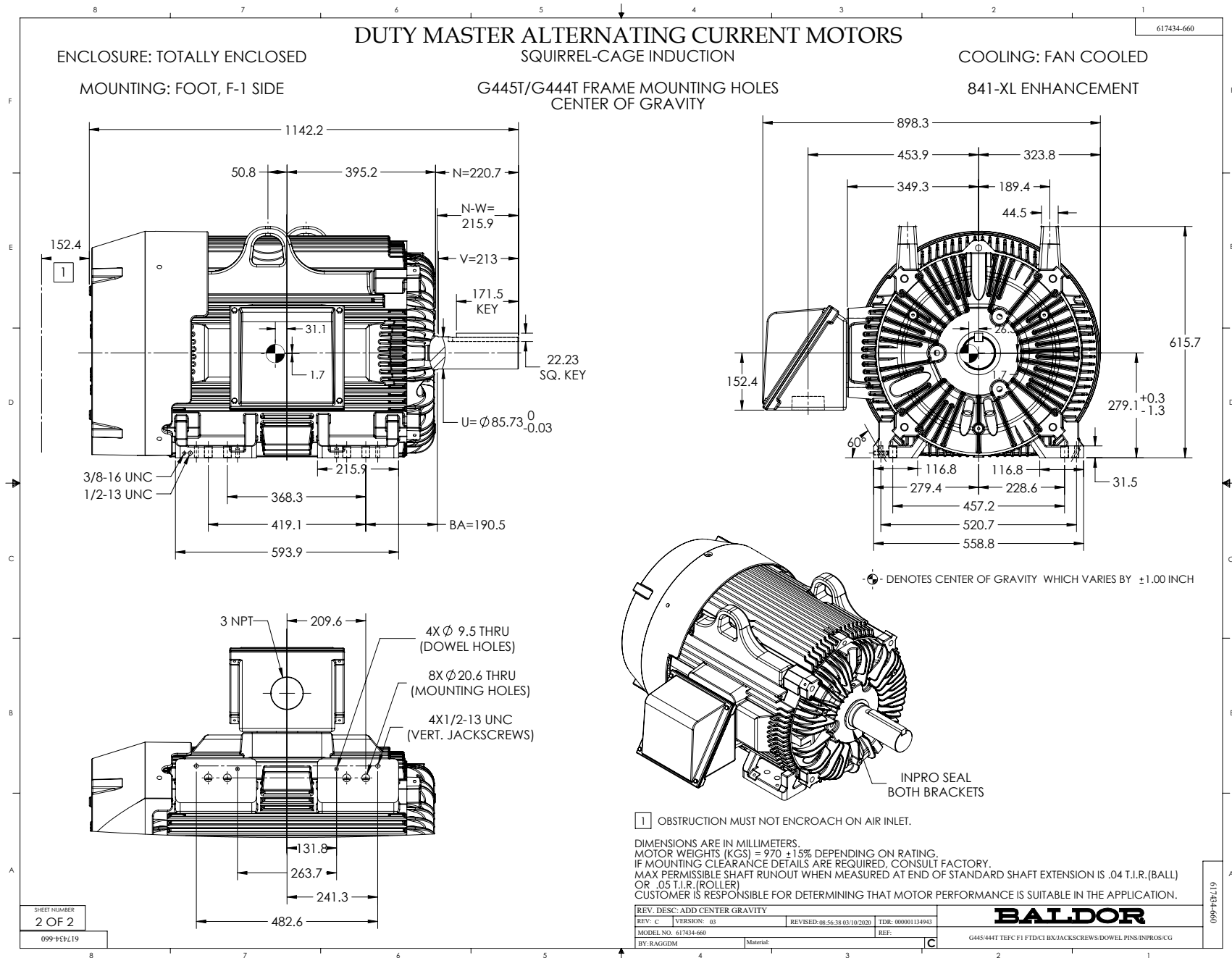
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AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

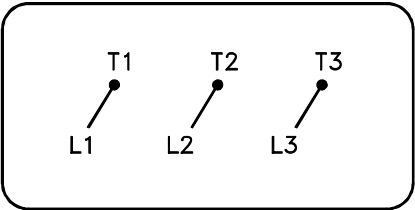
ISSUE DATE 02/03/25





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