

ABB BALDOR RELIANCE III

Customer information packet

ECP84406TR-4

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

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	CL I 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	CCSA US CCSAUSEEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
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
KVA Code	F

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617434-733
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	04-01-2021

Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
No Load Current	48.9 a
Number of Poles	4
Overall Length	44.97 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Roller
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL SHC -220 GREASE	

000613007EX				
CAT NO	ECP84406TR-4	SPEC NO.	A44-9320-3335	
NO. ROTOR BARS	58	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE		48.9
5 YEAR WARRANTY		WINDING RES @25 C	.0298	OHMS
MFG. DATE		SER.NO		

CAT NO	ECP84406TR-4	SPEC NO.		A44-9320-3335							
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		NU222		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X		TYPE	ENCL	TEFC	CODE	F				
O.D.E. BRG.	90BC03J30X		POWER FACTOR		86		NEMA-NOM-EFFICIENCY		95.8		
3/4 LOAD EFF.	96.0	IP	56	MAX CORR KVAR		30		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								

ECP84406TR-4 - 150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC						
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: <u>C.B.ATANGANE</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>C.E.JAMISON</u> DATE: <u>10/16/23</u>		AC MOTOR PERFORMANCE DATA		A44WG3335-R001 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

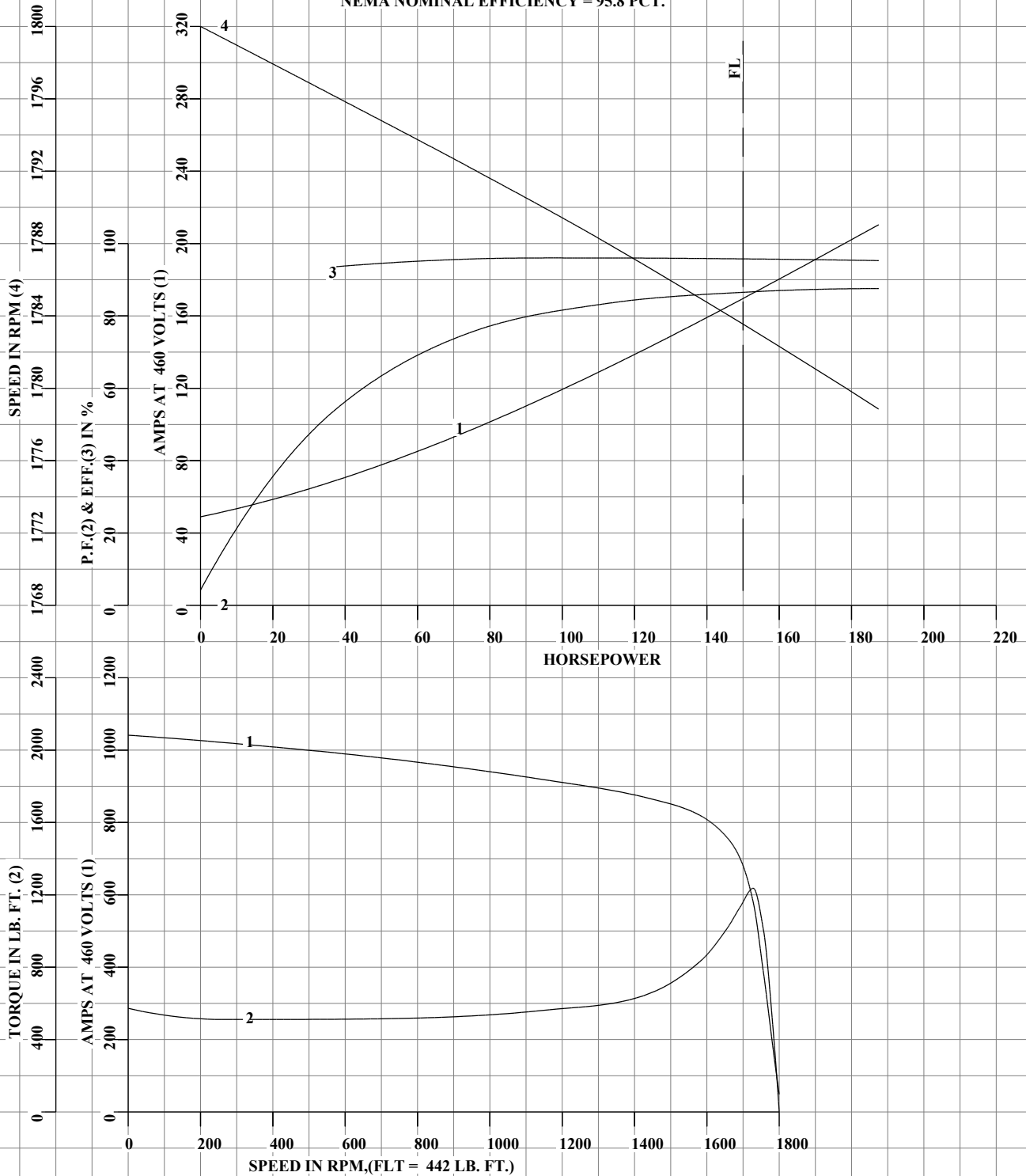
STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.8 PCT.



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AC MOTOR
PERFORMANCE
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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

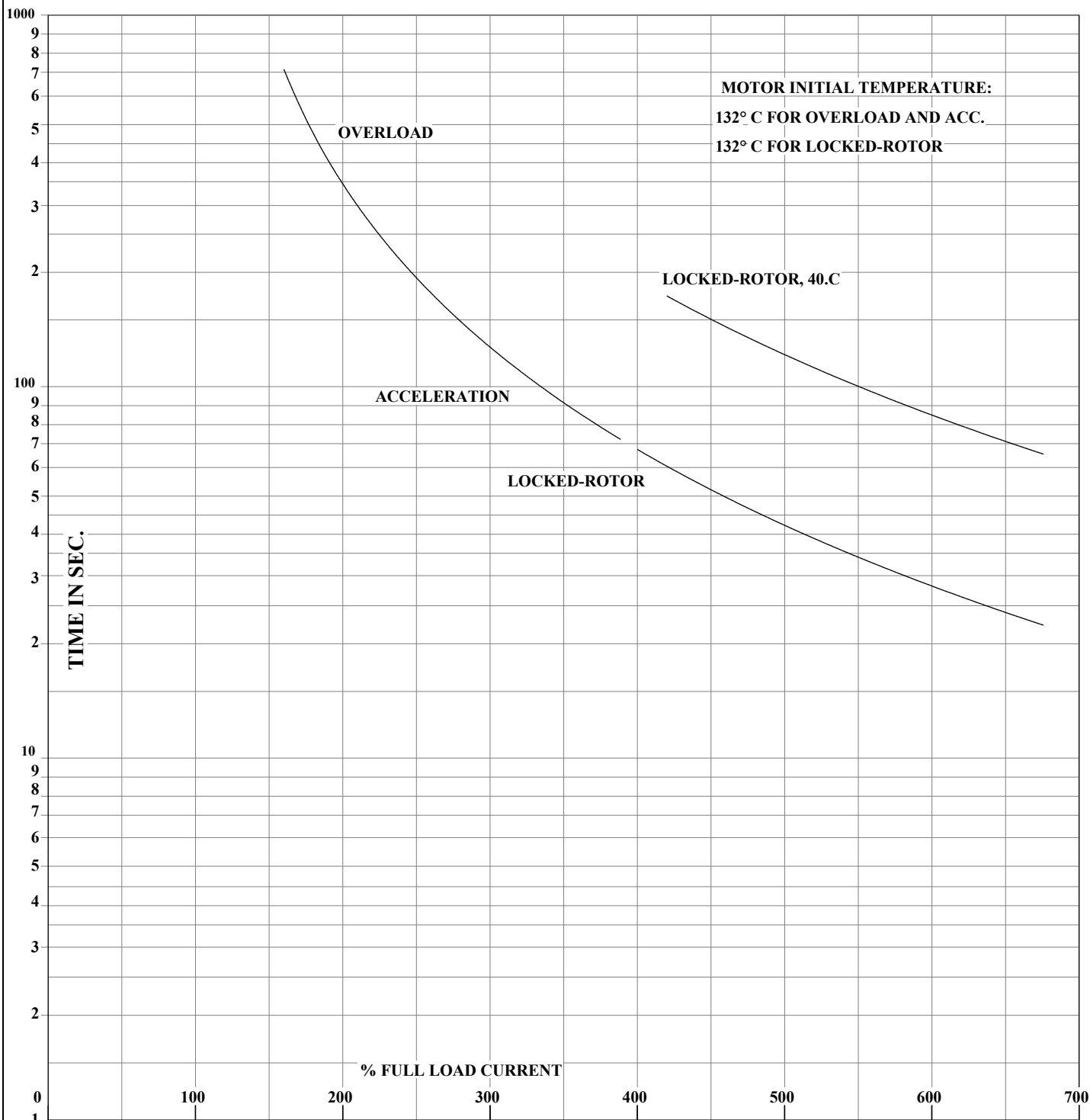
ENCLOSURE TEFC

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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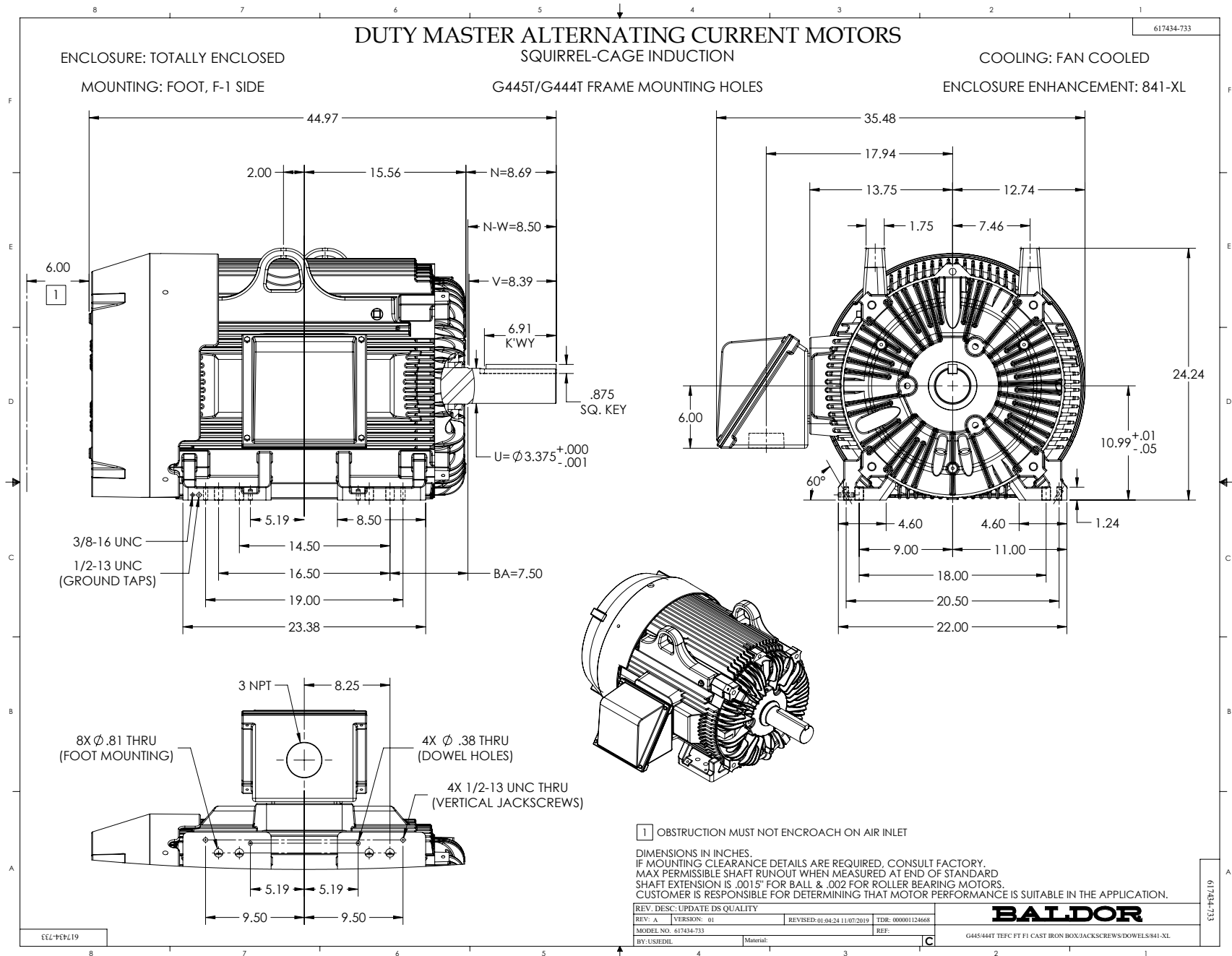


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AC MOTOR
PERFORMANCE
DATA

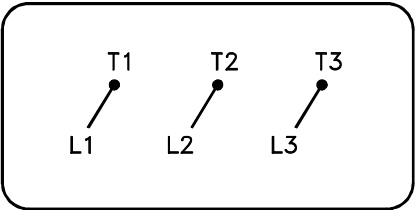
A44WG3335-R001

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