

ABB BALDOR RELIANCE III

Customer information packet

EM4406T-5

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	445T
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	575.0 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	135.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	135.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3784
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	08-13-2012

Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	86
Product Family	Other
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L																	
SPEC NO.	P44G3908			CAT.NO.		EM4406T-5					FRAME	445T					
HP	150	VOLTS		575	PHASE		3	DESIGN		B	TYPE		P				
RPM	1785	AMPS		135	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												

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445LP	150	P	3/60	1785	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
135	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
498866	0	---	---	.0465		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	39.2	1800	4.26	0	
1/4	37.6	55.4	1796	54.3	93.6	
2/4	75.0	77.8	1792	75.5	95.7	
3/4	112	105	1788	83.3	96.0	
4/4	150	136	1784	86.3	95.8	
5/4	188	169	1779	87.3	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB. - FT.	AMPERES	
LOCKED ROTOR		0	130	572	833	
PULL UP		270	116	511	816	
BREAKDOWN		1729	280	1237	463	
FULL LOAD		1784	100	442	136	
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.8 PCT.						
		DR. BY C. JAMISON		A-C MOTOR PERFORMANCE DATA A44WG3784-R001 ISSUE DATE 06/18/18		
		CK. BY W. SMITH				
		APP. BY W. SMITH				
		DATE 1/18/11				
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REL S.O.

 RPM **1785**

 S.F. **1.15**

 ROTOR **0**

 FRAME **445LP**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **150**

 AMPS **135**

 CODE LETTER **F**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

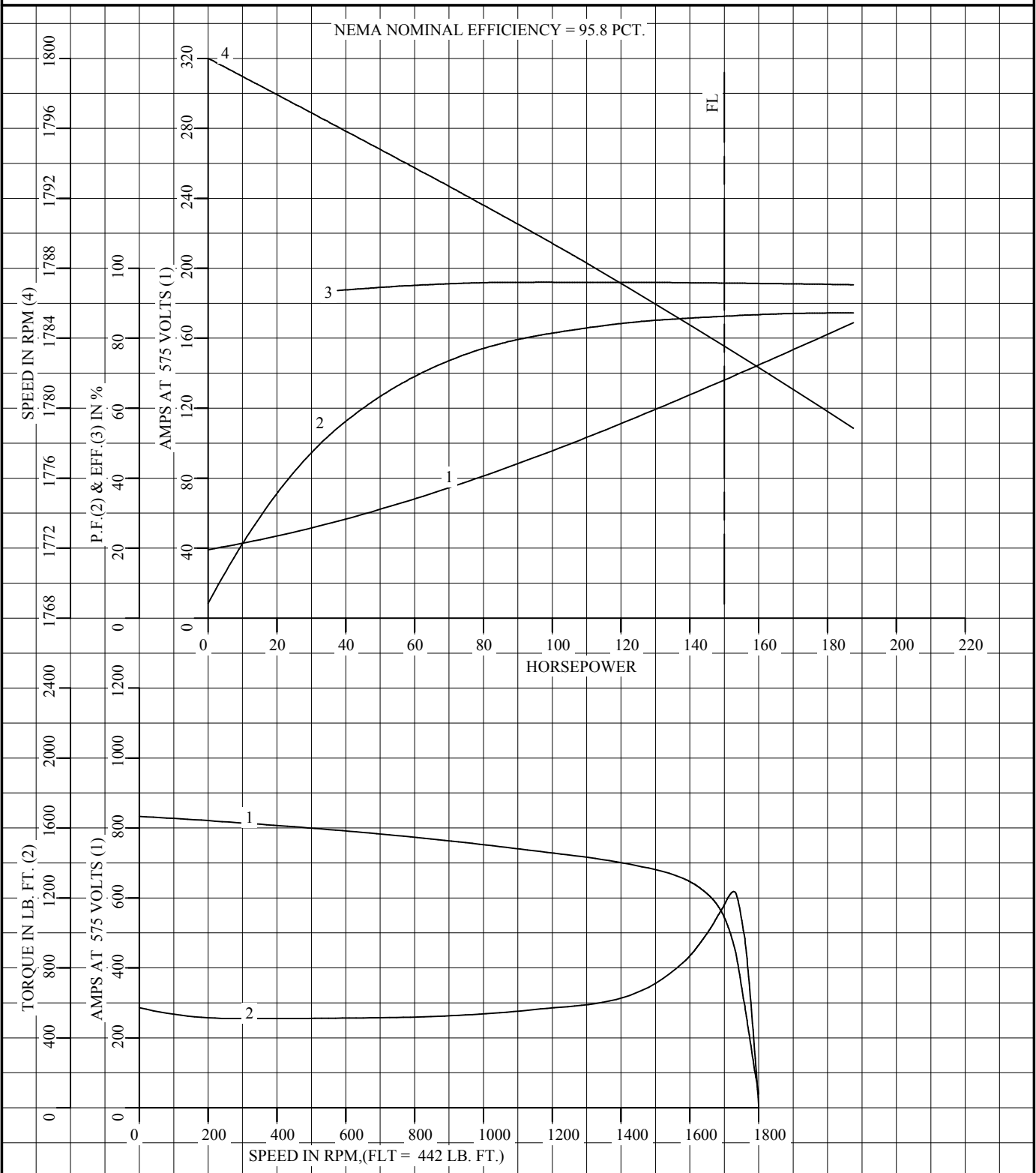
 STATOR RES. @ 25 °C **.0465**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **498866**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C. JAMISON
CK. BY W. SMITH
APP. BY W. SMITH
DATE 1/18/11

**A-C MOTOR
PERFORMANCE
CURVES**

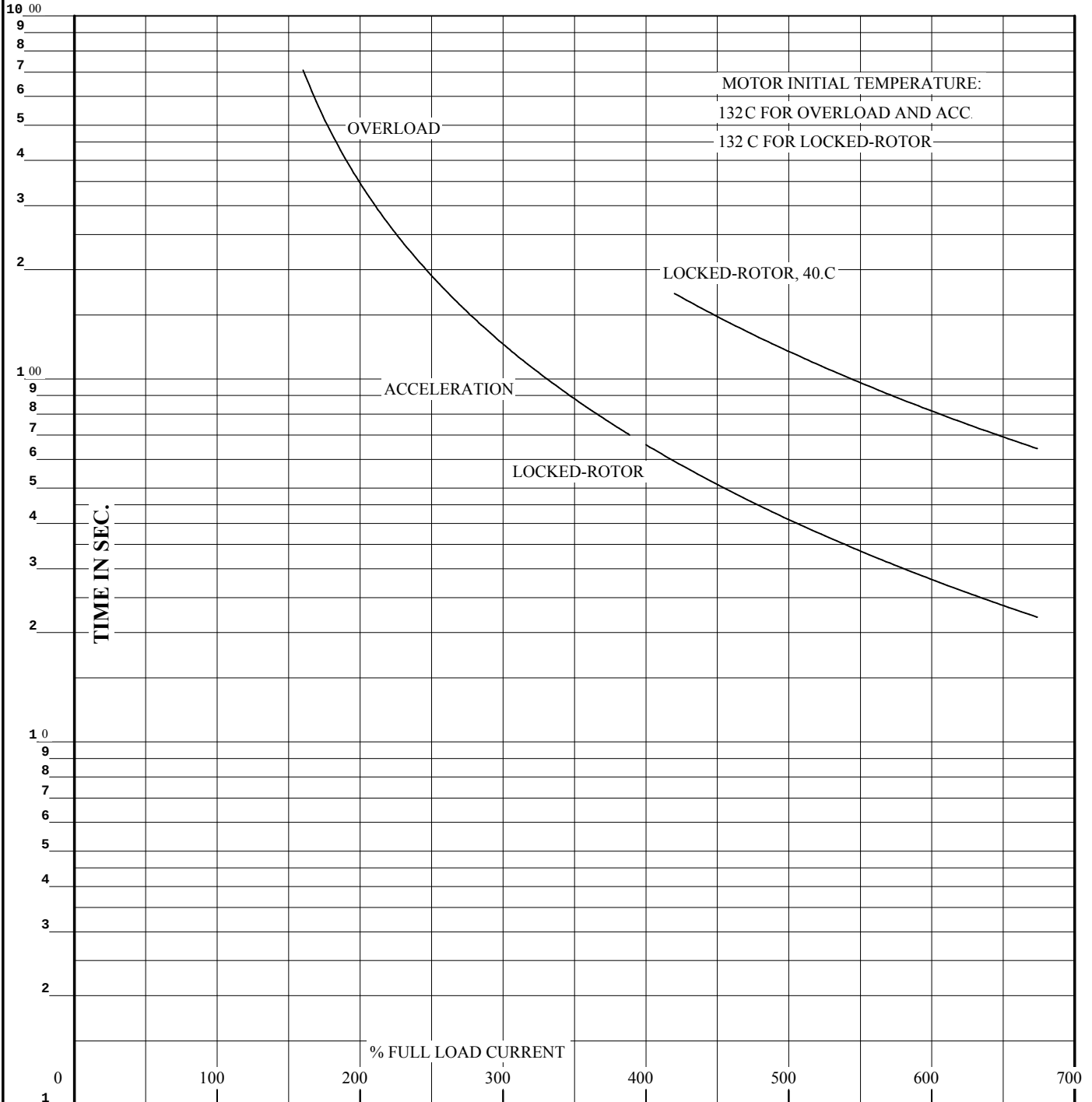
A44WG3784-R001
ISSUE DATE 06/18/18

REL. S.O.
FRAME **445LP**
HP **150**
TYPE **P**
PHASE/HERTZ **3/60**

RPM **1785**
VOLTS **575**
AMPS **135**
DUTY **CONT**
AMB °C/INSUL **40/F**

S.F. **1.15**
NEMA DESIGN **B**
CODE LETTER **F**
ENCLOSURE **TEFC**
E/S **498866**

ROTOR **0**
TEST S.O. **TYPICAL DATA**
TEST DATE **---**
STATOR RES. @ 25 °C **.0465**
OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

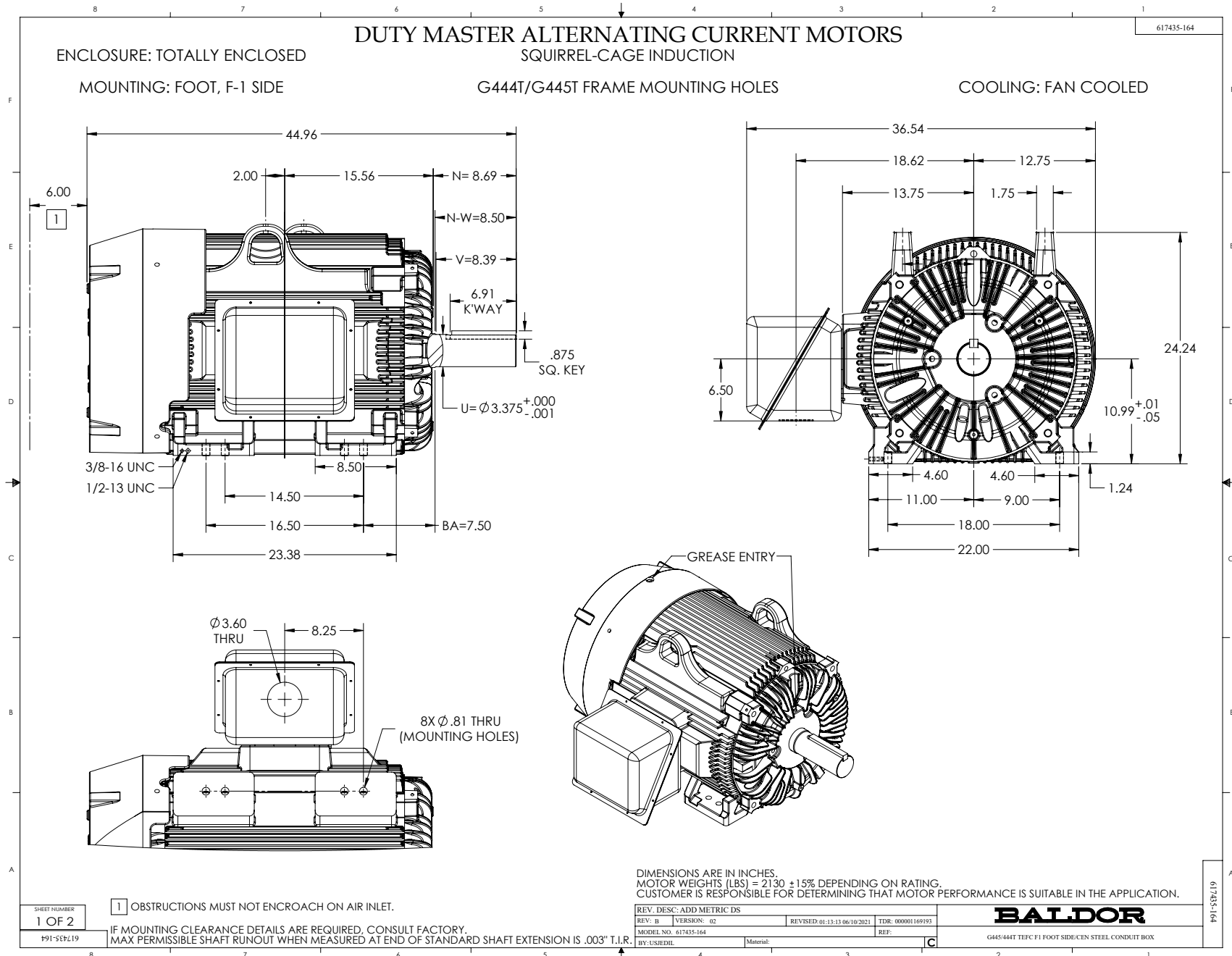
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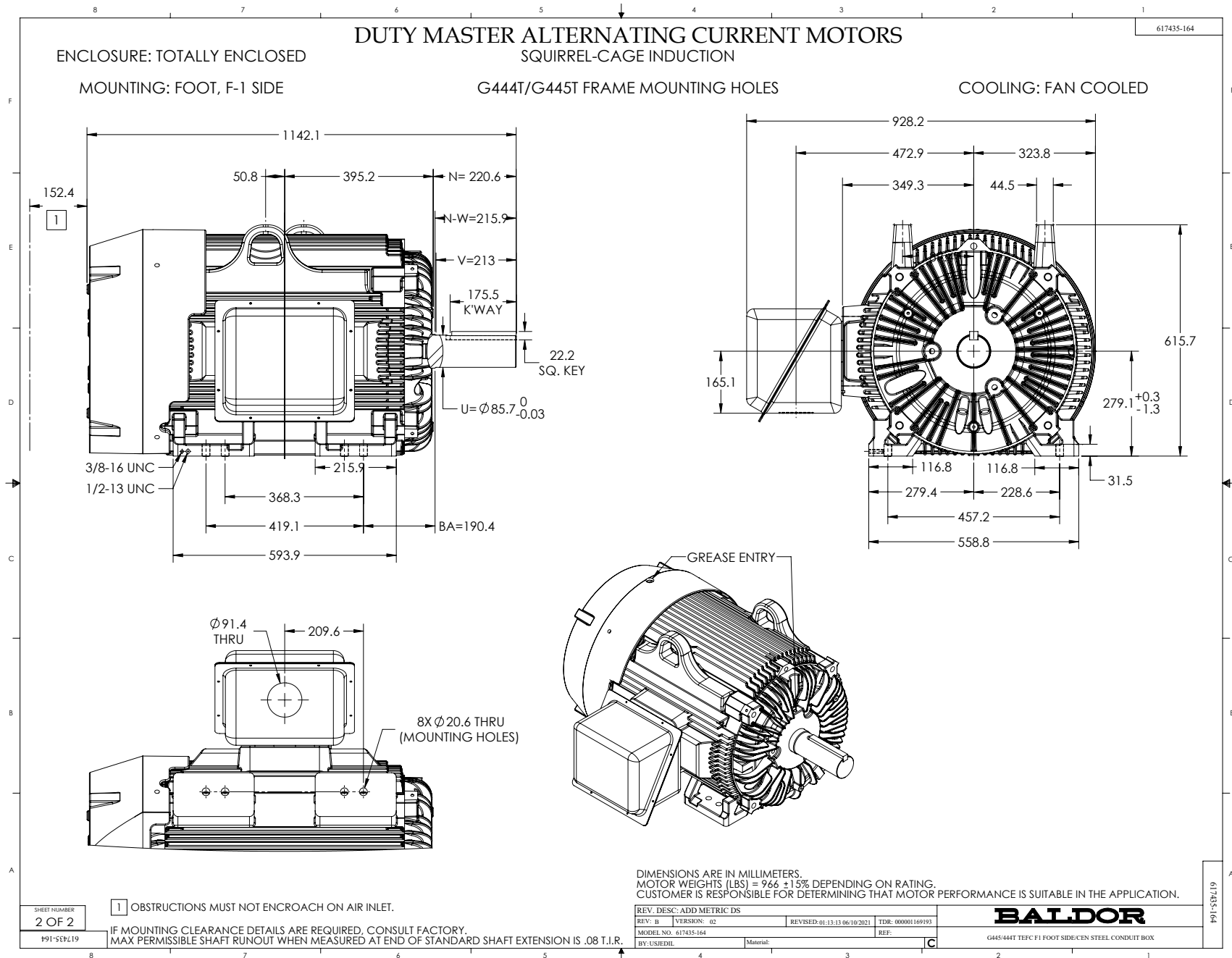


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**A-C MOTOR
PERFORMANCE
CURVES**

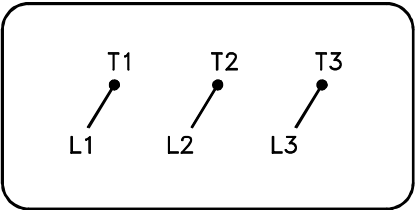
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416820-036

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