

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					

Parts List

Part number	Description	Quantity
SA249402	SA P44G3908	1.000 ea
RA236267	RA P44G3908	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
412118006A	DRAIN	2.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415072001B	CLAMP	1.000 ea
083199126RA	G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
410700004A	WSHR	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
702658001A	CONDUIT BOX, E440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	1.000 ea
415915007G	GASK, LAC	1.000 ft
406056008A	GASKET, TERBD 440	1.000 ea
418153001A	GASK 440	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea

415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
418151014G	RETAIN RING	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
000692000FF	N/P	1.000 ea
PK5004A09	BASE 48 X 39-1/4 WITH STACKED 2X4 RUUNER	1.000 ea

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 CK. BY W. SMITH APP. BY W. SMITH DATE 1/18/11		A-C MOTOR PERFORMANCE DATA A44WG3784-R001 ISSUE DATE 06/18/18		

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**

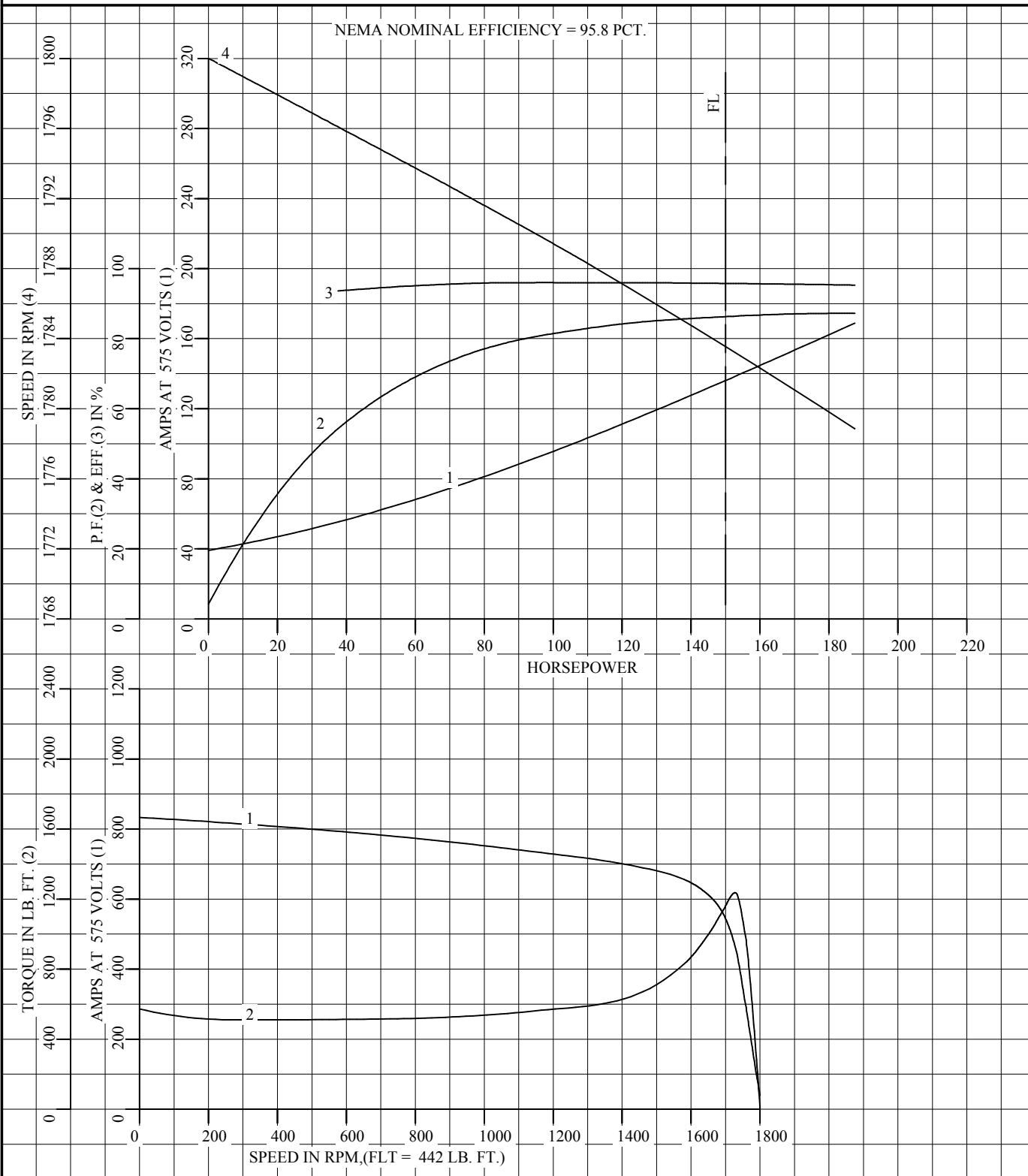
 STATOR RES. @ 25 °C **.0465**

 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

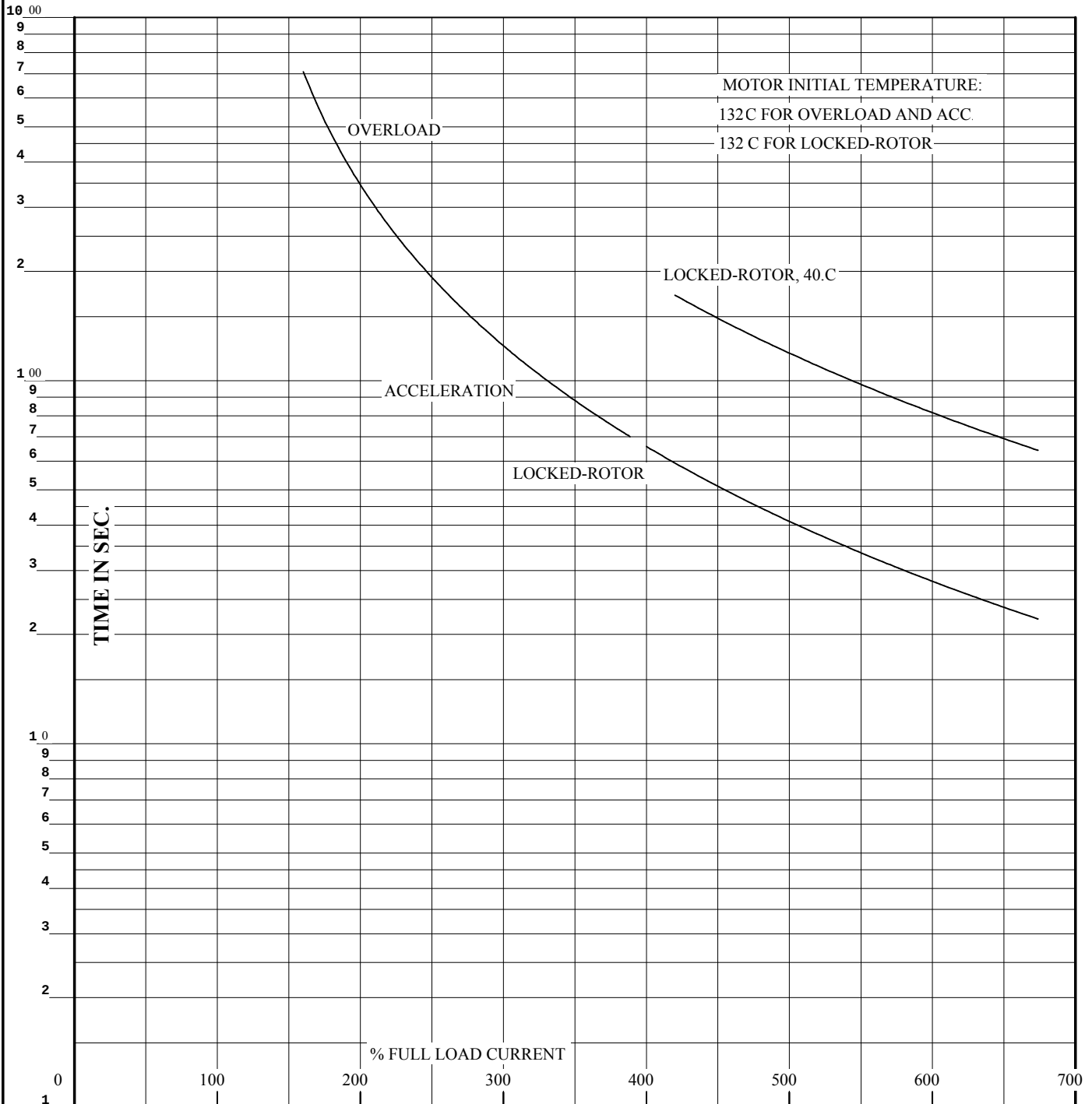
**A-C MOTOR
PERFORMANCE
CURVES**

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)


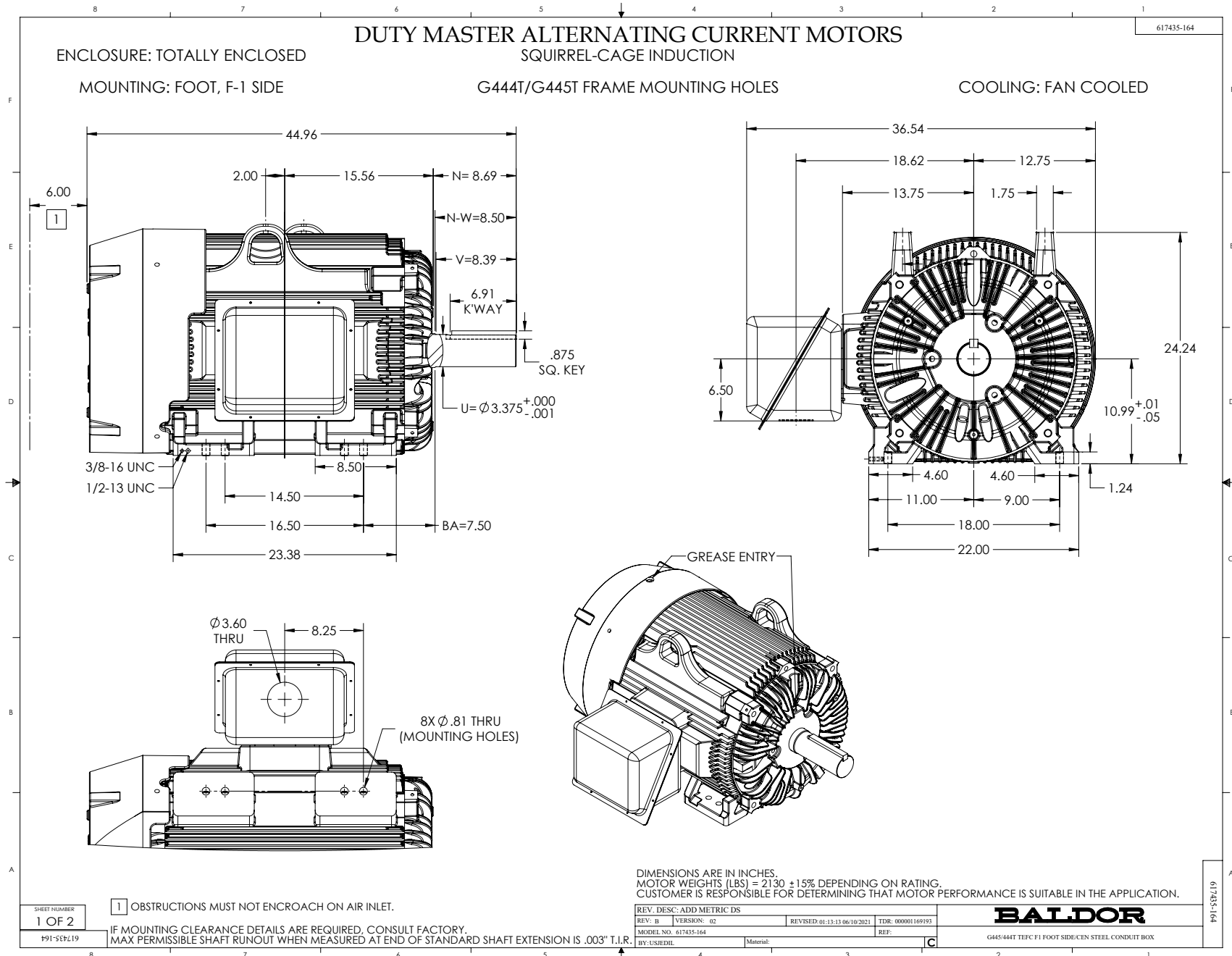
THERMAL LIMIT CURVE

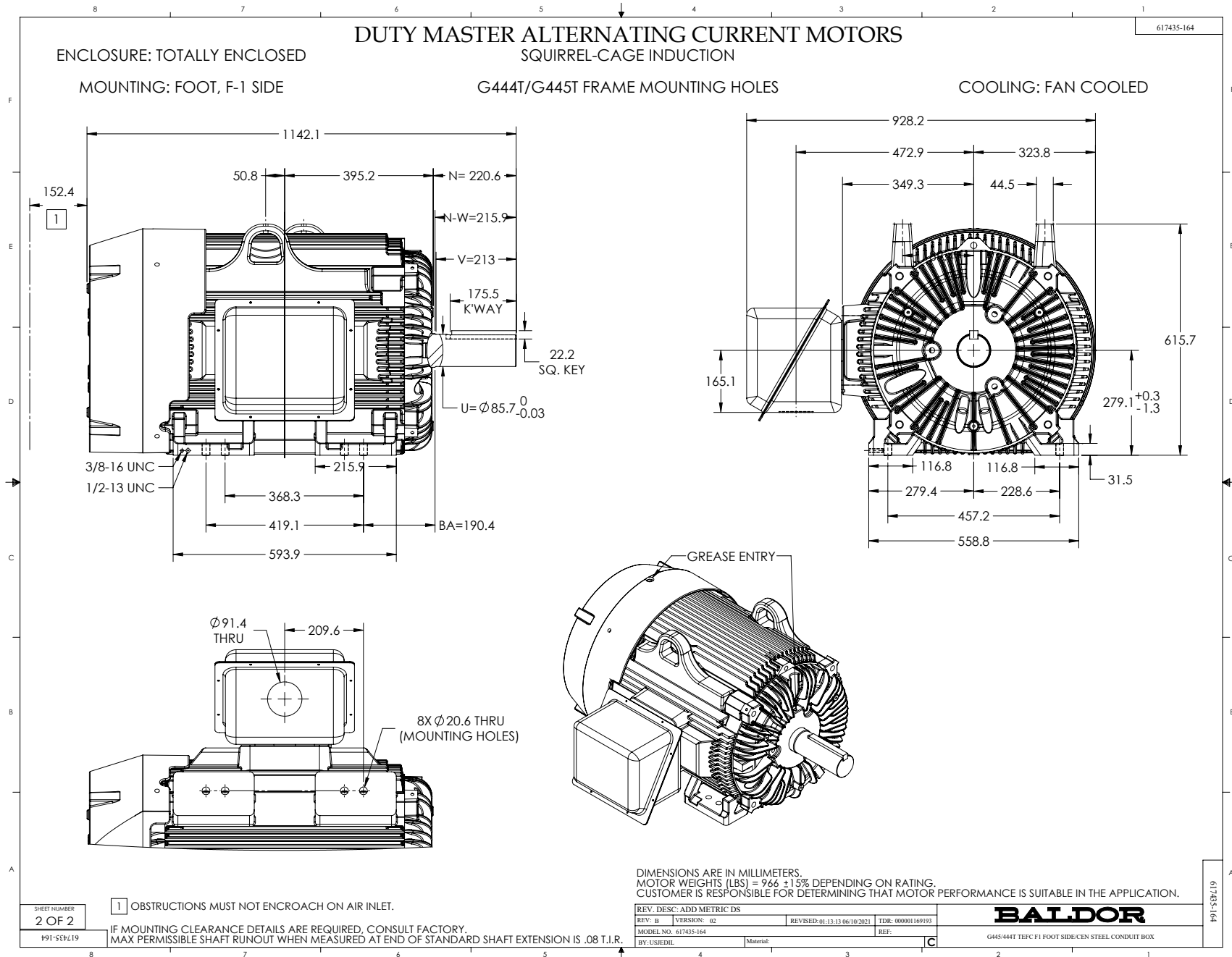
REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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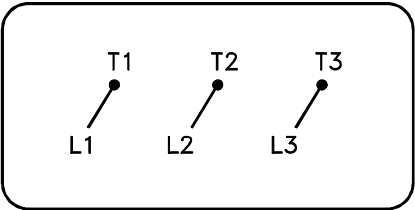
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**A-C MOTOR
PERFORMANCE
CURVES**
A44WG3784-R001
 ISSUE DATE 06/18/18 Page 9 of 12





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