

ABB BALDOR RELIANCE III

Customer information packet

EM4406TR-4

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	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Current @ Voltage	169.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A4488M

Part Detail

Revision	U
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3783
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	04
Leads	6#2
Proprietary	False
Created date	02-18-2013

Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	86
Product Family	Other
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	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP2349L

SPEC NO.	P44G4026			CAT.NO.	EM4406TR-4					FRAME	445T			
HP	150	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P					
RPM	1785	AMPS	169	HZ	60	AMB	40	SF	1.15					
DRIVE END BEARING	110RU02M30X			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	GUARANTEED EFFICIENCY		95			
						NEMA NOM/CSA QUOTED EFF								
						MOTOR WEIGHT								

NP2496L	
MOBIL SHC 220 GREASE	

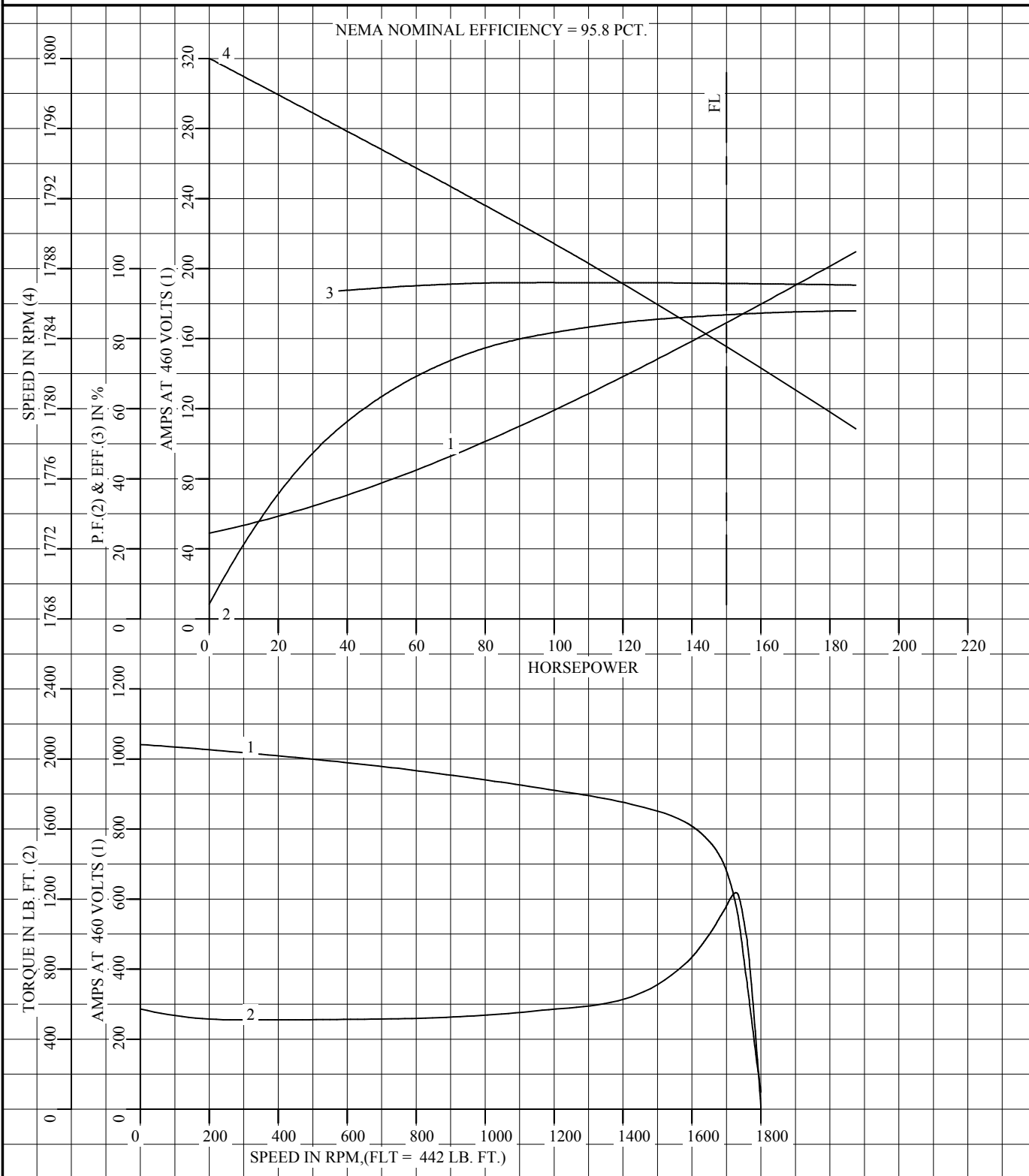
Parts List

Part number	Description	Quantity
SA258746	SA P44G4026	1.000 ea
RA245512	RA P44G4026	1.000 ea
421948044	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
004824015AP	GREASE MOBILITH SHC 220	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
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
089490101A	G28 BRKT 089490100WCA	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	WILKOFEST, 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
418151014H	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
034530036AB	P/NIP 1/8 X4-1/2 Yellow Zinc46114-BM	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
000692000FF	N/P	1.000 ea
604797056	400-447 FRAME 60 X 42	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
000692000RT	N/P	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
412118006A	DRAIN	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	1.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604797001R	440 FR. ROLLER BEARING MOTOR SHAFT	1.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	1.000 ea
034001016AB	WSHR .562ID 1.375OD .109	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445VP	150	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
169	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498865	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	54.4	93.6	
2/4	75.0	96.9	1792	75.7	95.7	
3/4	112	131	1788	83.6	96.0	
4/4	150	169	1784	86.8	95.8	
5/4	188	210	1779	87.9	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 VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.8 PCT.						
		DR. BY	CD	A-C MOTOR PERFORMANCE DATA		
		CK. BY	CD			
		APP. BY	T. KELATI			
		DATE	1/18/11			
			A44WG3783-R001 ISSUE DATE 09/27/19			

REL S.O.	RPM 1785	S.F. 1.15	ROTOR 418143053AE
FRAME 445VP	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 169	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0298
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 498865	OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

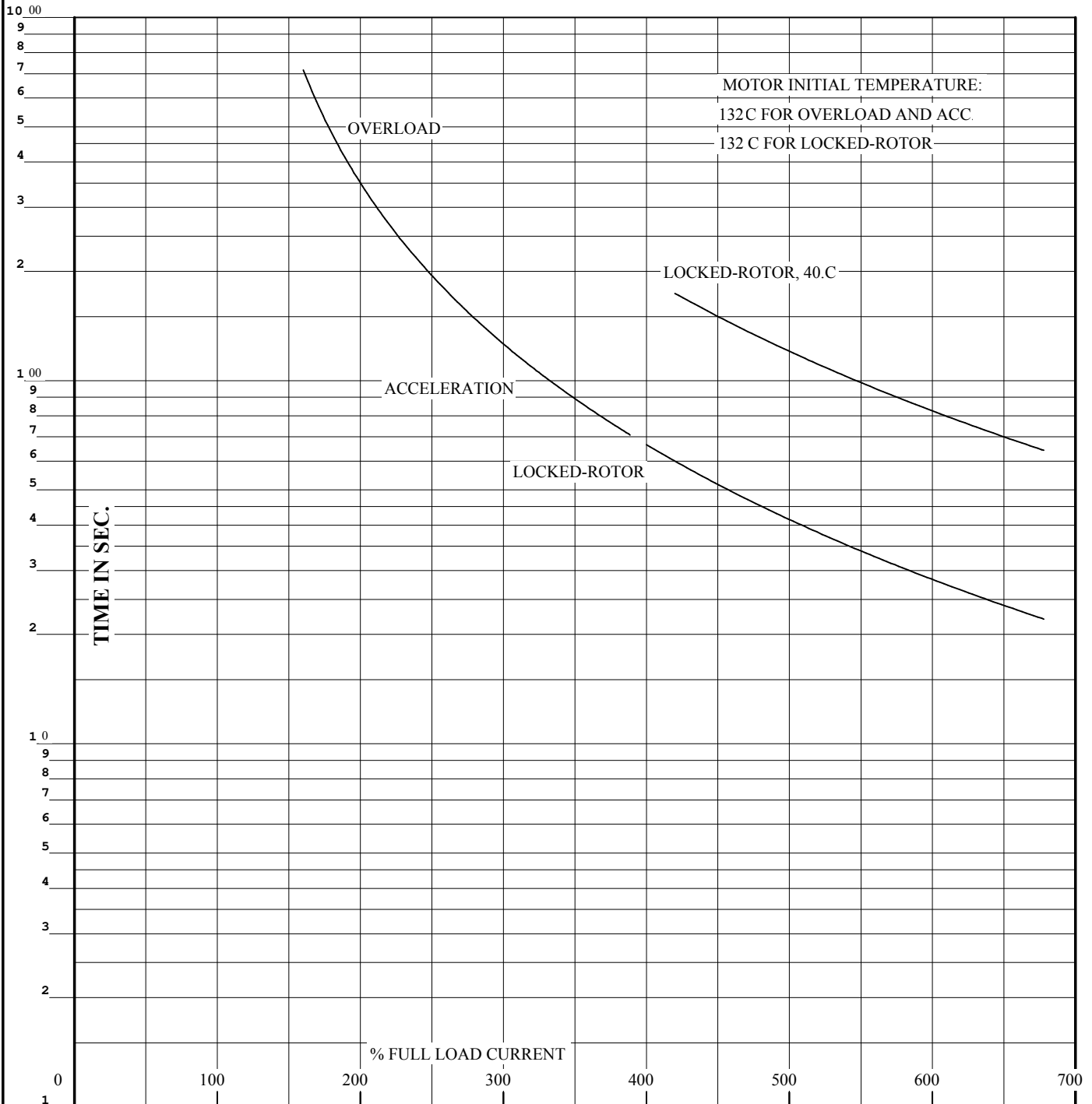
DR. BY CD
CK. BY CD
APP. BY T. KELATI
DATE 1/18/11

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3783-R001

ISSUE DATE **09/27/19**

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 418143053AE
FRAME 445VP	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 169	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0298
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 498865	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

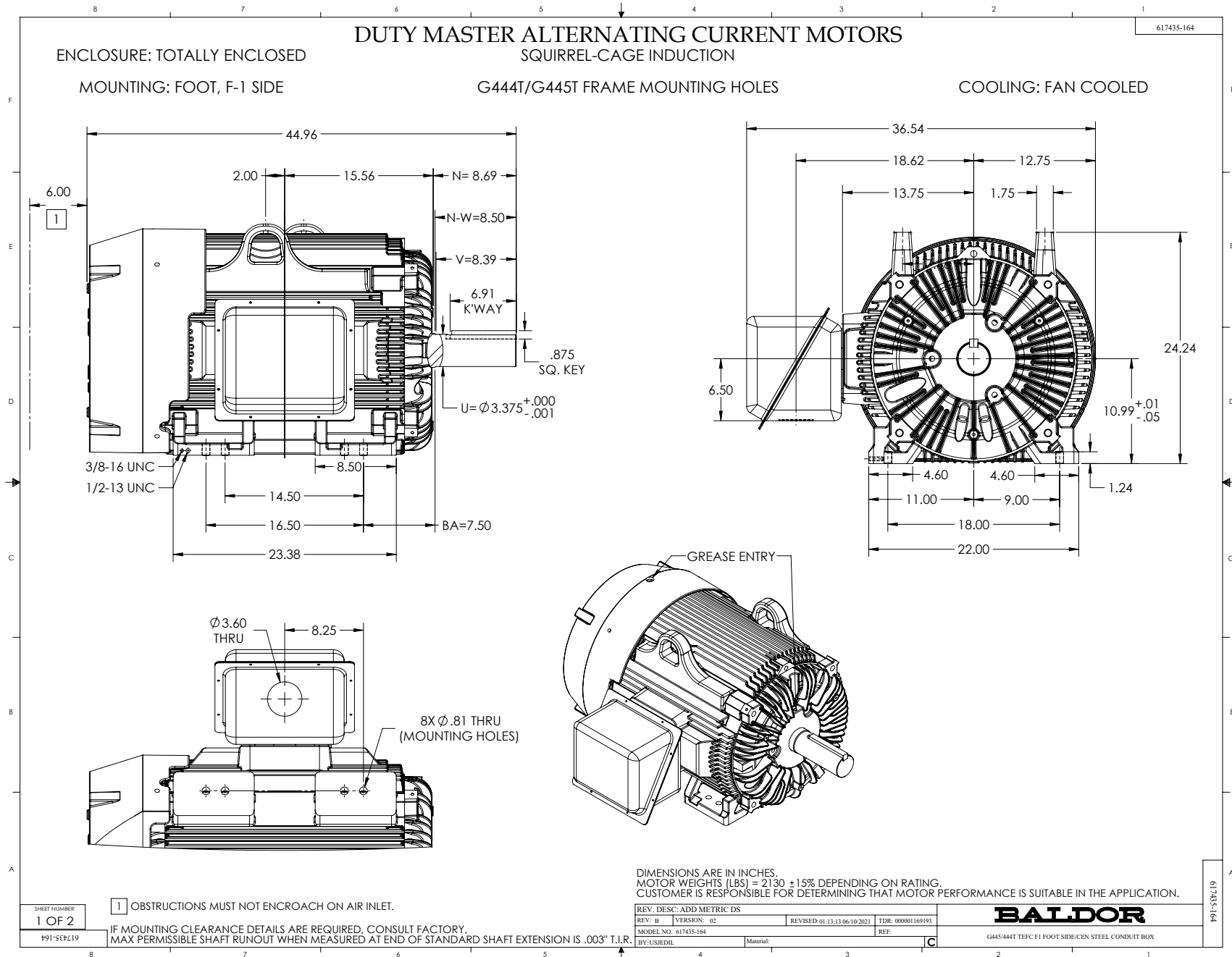
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

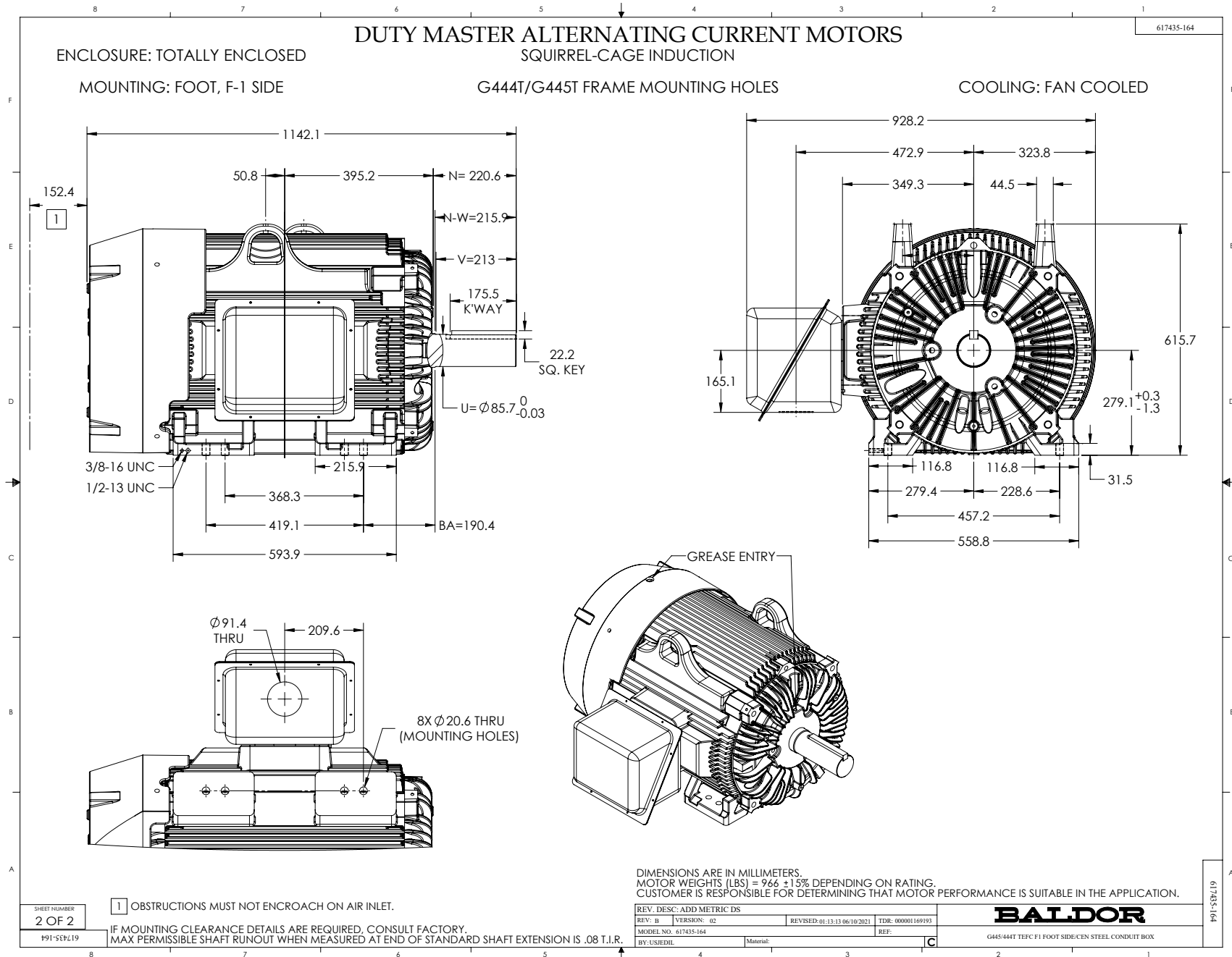


DR. BY	CD
CK. BY	CD
APP. BY	T. KELATI
DATE	1/18/11

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3783-R001
ISSUE DATE 09/27/19 Page 10 of 13

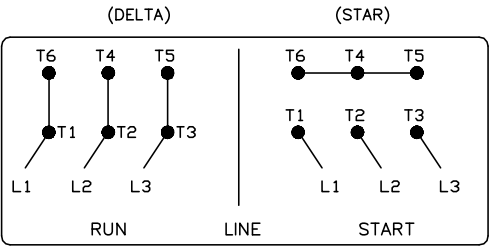
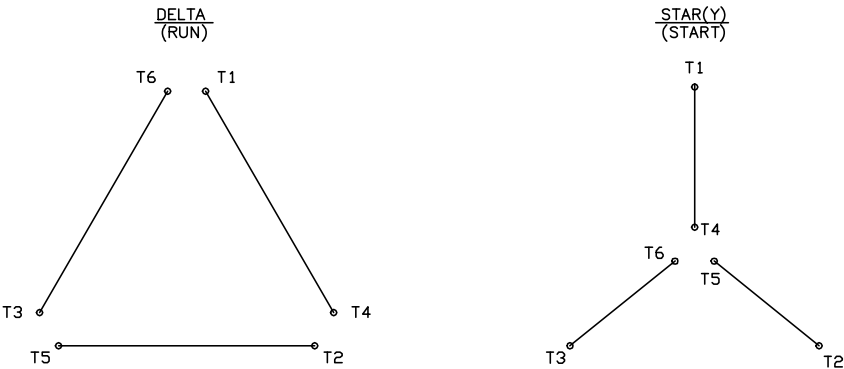




416820-008

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN



(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM

REV. LTR: D

VERSION: 04

TDR: 000000847713

FILE: \RAG\00001\808

REVISED: 10: 41: 26 04/08/2014

BY: RAGJSS1

MTL: -

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

416820-008