

ABB BALDOR RELIANCE III

Customer information packet

EM4411T-4

125HP, 1188RPM, 3PH, 60HZ, 445T, A44090M, 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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	Polyrex EM (-20F +300F)
Current @ Voltage	146.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	146.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44090M

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1554
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	06
Leads	6#2
Proprietary	False
Created date	08-13-2012

Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	84
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	Shaft Slinger
Speed	1188 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L													
SPEC NO.	P44G3905			CAT.NO.		EM4411T-4				FRAME	445T		
HP	125	VOLTS		460		PHASE	3	DESIGN	B	TYPE	P		
RPM	1188	AMPS	146		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		84		NEMA-NOM-EFFICIENCY			95		
						MAX CORR KVAR		30.0		GUARANTEED EFFICIENCY		94.5	
						NEMA NOM/CSA QUOTED EFF							
											MOTOR WEIGHT		2073

Parts List

Part number	Description	Quantity
SA249400	SA P44G3905	1.000 ea
RA236265	RA P44G3905	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
421948044	LABEL, MYLAR	1.000 ea
412118006A	DRAIN	2.000 ea
034690005AB	PPLG 3/4 PLATED	1.000 ea
004824015A	GREASE POLYREX EM	1.156 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078557001E	FAN 440 078557001F	1.000 ea
083199126A	G440 MOLDED FAN COVER	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
410700004A	WSHR	1.000 ea
415045002A	SLGR	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea

034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea
034530044BB	P/NIP 1/4X5-1/2L PLT	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415915007G	GASK, LAC	1.000 ft
034690002AB	PPLG 1/4" PLTD.	1.000 ea
415045002A	SLGR	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/OAWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418153001A	GASK 440	1.000 ea
702658001A	CONDUIT BOX, E440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	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
PK5004A09	BASE 48 X 39-1/4 WITH STACKED 2X4 RUUNER	1.000 ea

Accessories

Part number	Description	Multiplier
089490106A	G28 C-FACE BRKT MACH-6318 089490105WCA	P1
089490110A	D-FLANGE BRKT, G28 089490109WCA	P1

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	125	P	3/60	1188	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
146	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498819	418143098ME	---	---	.0412		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	46.3	1200	4.43	0	
1/4	31.3	66.0	1197	48.0	92.5	
2/4	62.5	87.8	1195	70.2	95.0	
3/4	93.7	116	1192	79.6	95.4	
4/4	125	147	1189	83.6	95.1	
5/4	156	181	1186	85.2	94.6	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	132	727	966		
PULL UP	168	118	652	928		
BREAKDOWN	1148	264	1460	558		
FULL LOAD	1189	100	552	147		
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 = 95.0 PCT.						
		DR. BY W. L. SMITH CK. BY J. J. HARRISON APP. BY W. L. SMITH DATE 12/06/10		A-C MOTOR PERFORMANCE DATA A44WG1554-R001 ISSUE DATE 12/18/10		

FRAME 445T

RPM 1188

VOLTS 460

NEMA DESIGN B

HP 125

AMPS 146

CODE LETTER F

TEST S.O. TYPICAL DATA

TYPE P

DUTY CONT

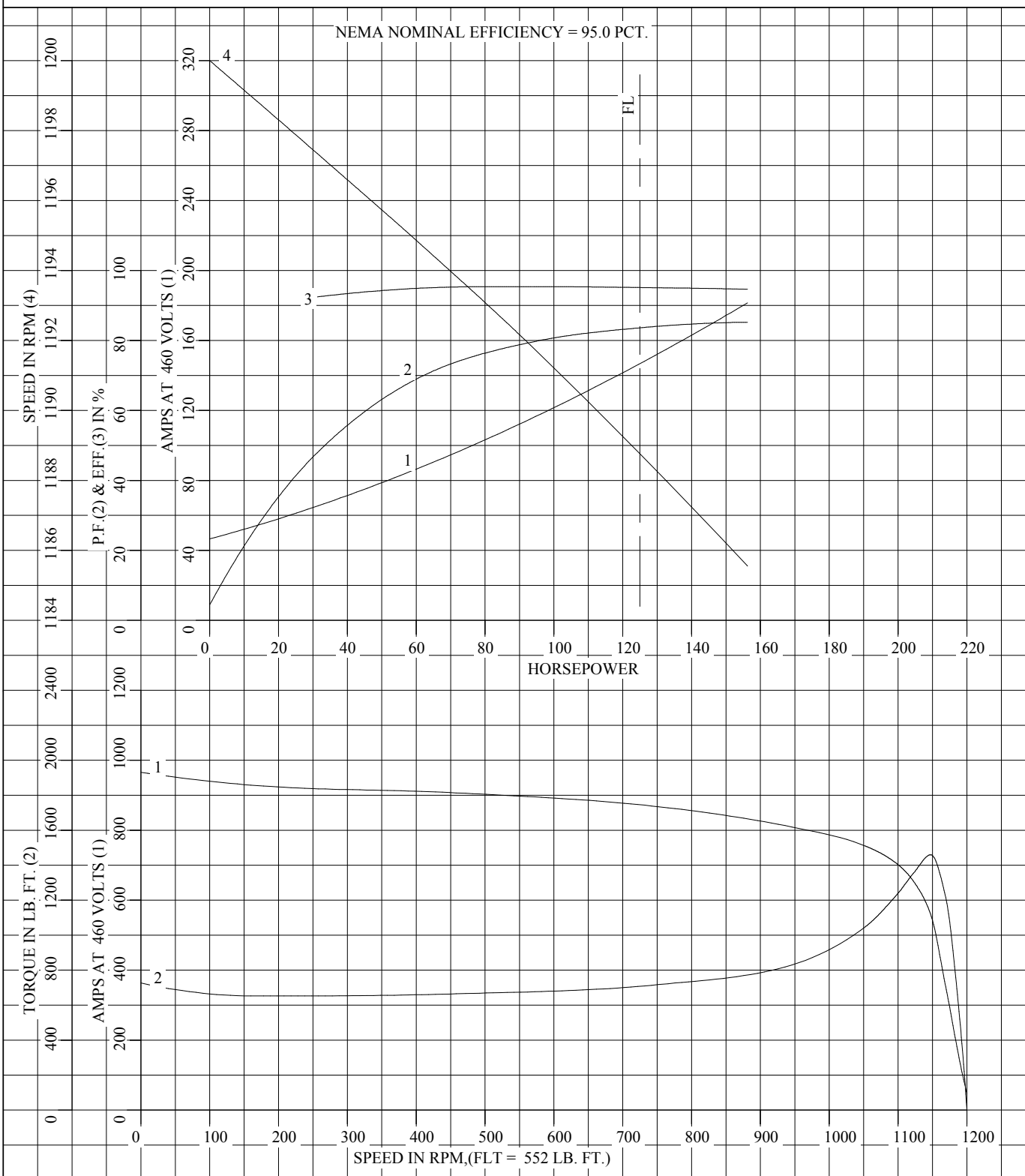
ENCLOSURE TEFC

TEST DATE ---

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 498819

 STATOR RES. @ 25 °C .0412
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

 DR. BY W. L. SMITH
 CK. BY J.J. HARRISON
 APP. BY W. L. SMITH
 DATE 12/06/10

**A-C MOTOR
PERFORMANCE
CURVES** A44WG1554-R001
 ISSUE DATE 12/18/10

REL. S.O.

RPM 1188

S.F. 1.15

ROTOR 418143098ME

FRAME 445T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

AMPS 146

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

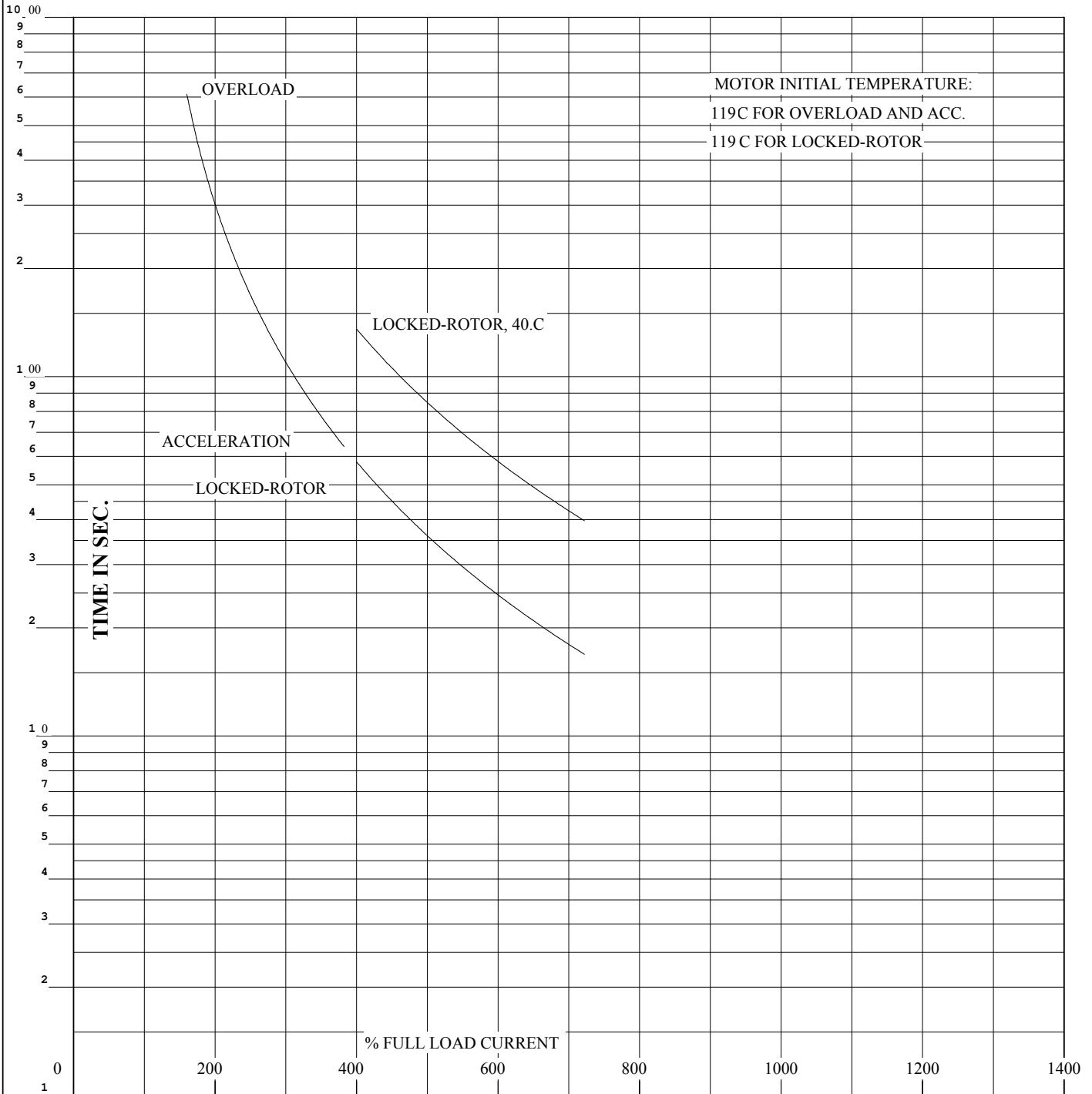
STATOR RES. @ 25 °C .0412

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 498819

OHMS (BETWEEN LINES)



THermal LIMIT CURVE

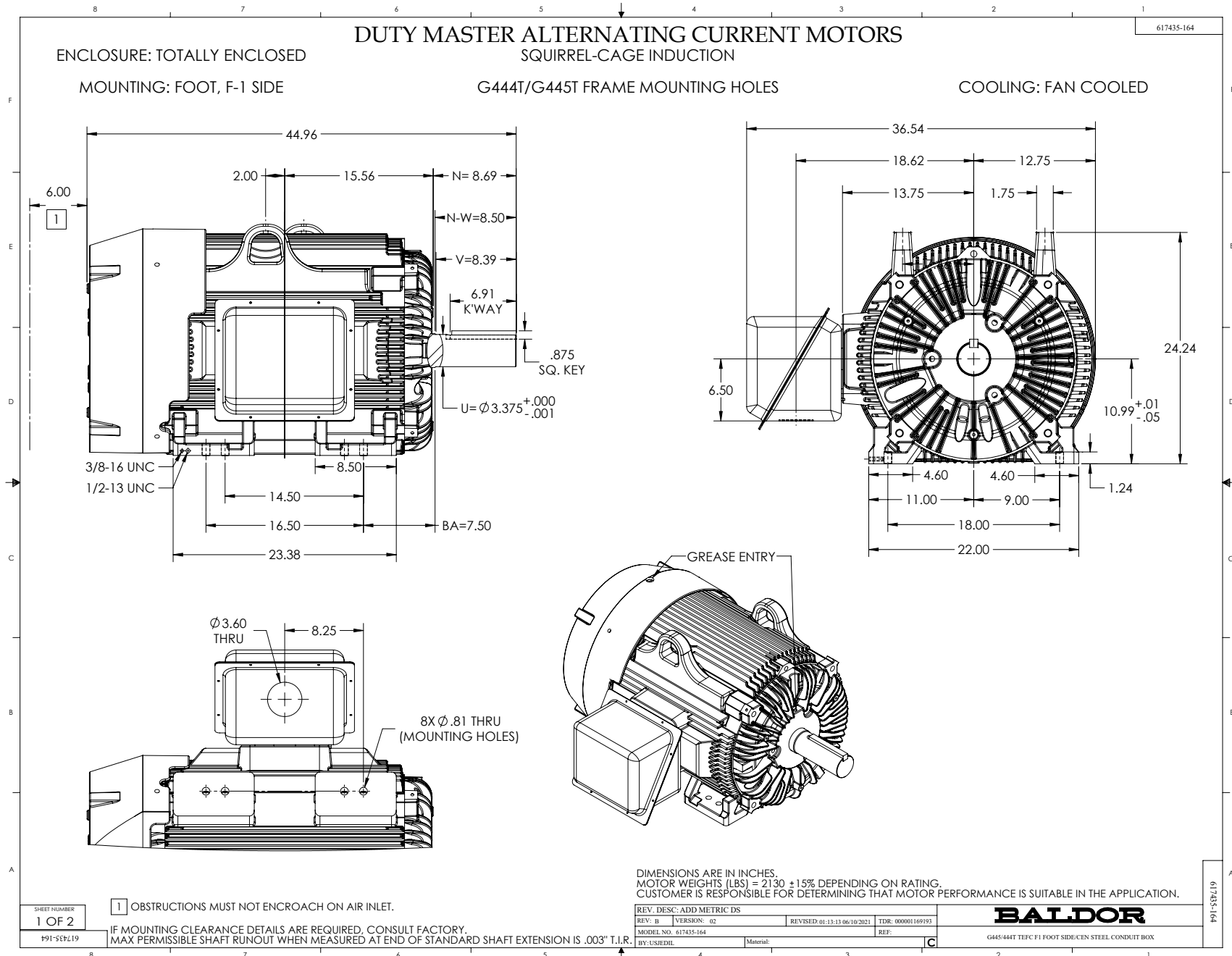
REMARKS: NEMA NOMINAL EFFICIENCY = 95.0 PCT.

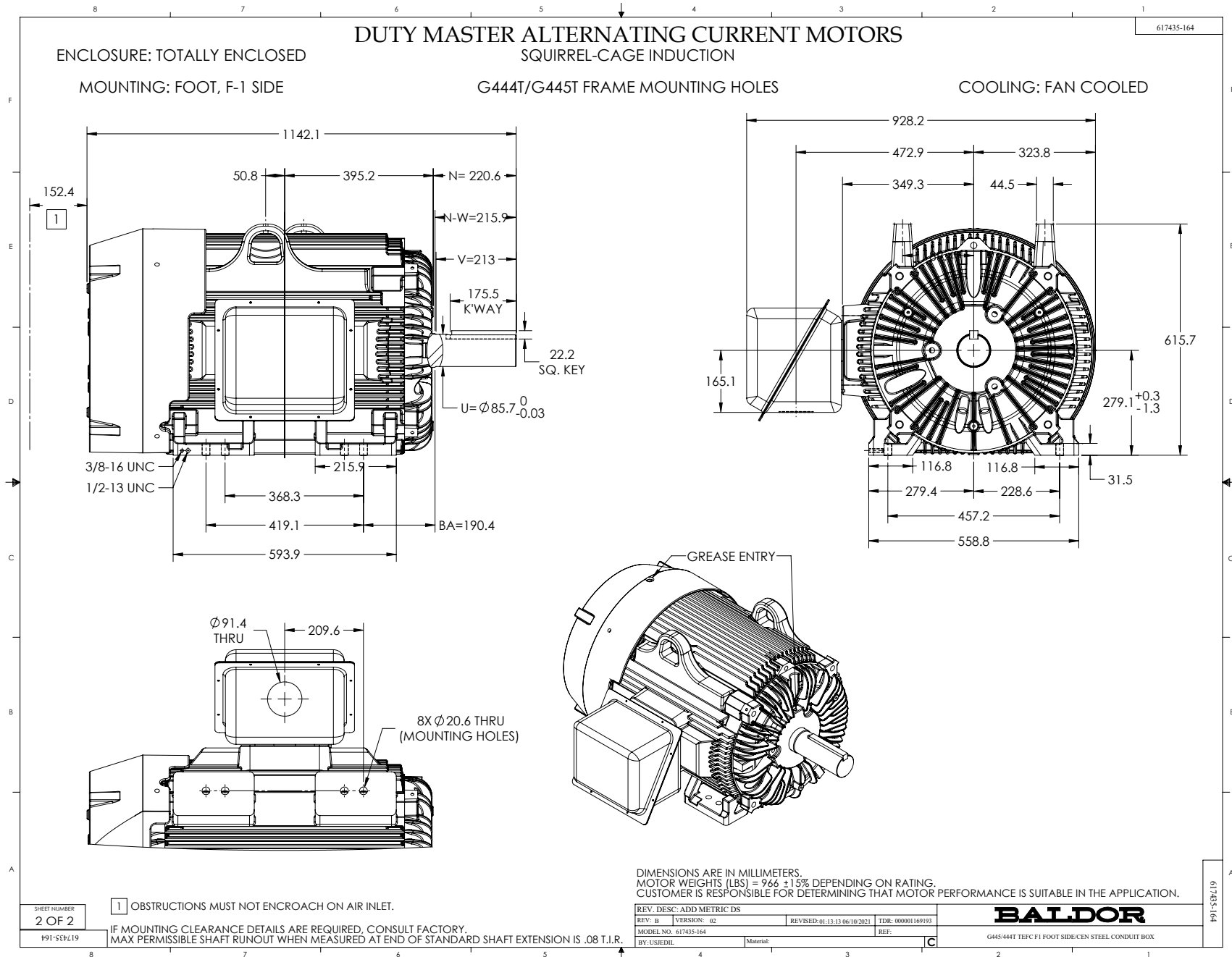
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**A-C MOTOR
PERFORMANCE A44WG1554-R001
CURVES** ISSUE DATE 12/18/10

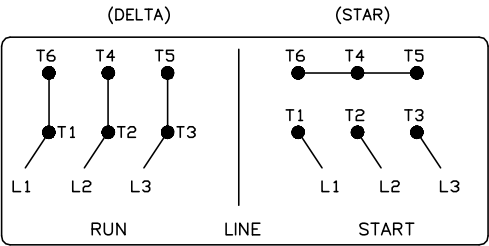
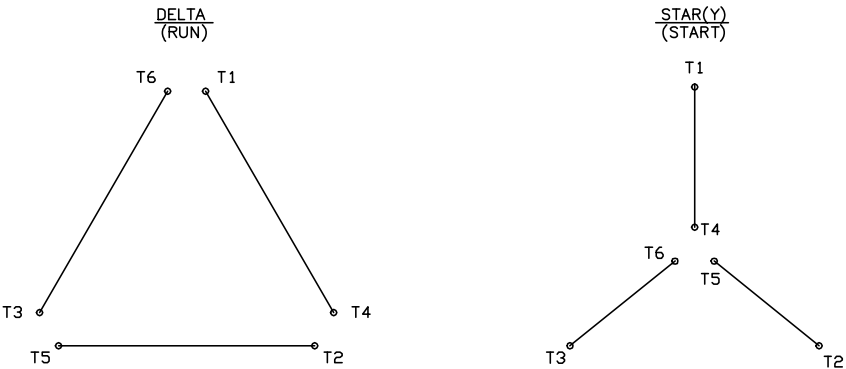




416820-008

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

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