

ABB BALDOR RELIANCE III

Customer information packet

DRX44164T

100HP, 1188RPM, 3PH, 60HZ, 444T, TEFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	116.000 A @ 460.0 V 232.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	116.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2115
Layout	617426-001
Eff. date	05-06-2024
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	03-11-2019

IP Rating	NONE
KVA Code	G
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.97 IN
Power Factor	85
Product Family	General Industrial
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	1188 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

NP3140L

SPEC NO.	A44-8612-2115			CAT.NO.	DRX44164T					FRAME	444T
HP	100	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1188	AMPS	232/116		HZ	60	AMB	40	SF	1.00	
DRIVE END BEARING	90BC03J30X		DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	90BC03J30X		ENCL	TEFC	CODE	G					
SF	1.15	WK2	49.8	MAG CUR	34.9	RPM MAX		2700			
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90	NEMA-NOM-EFF			95		
	SUIT FOR 55C AMB AT 1.00 SF					IP55					
SER.NO.				MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1188	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
232/116	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
497223	418143080FE	---	---	.0139/.0557		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	34.9	1200	5.84	0	
1/4	25.0	45.1	1197	56.9	91.4	
2/4	50.0	64.6	1194	76.7	94.5	
3/4	75.0	89.0	1191	83.0	95.1	
4/4	100	116	1188	85.0	95.0	
5/4	125	144	1185	86.0	94.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	160	705	725	
PULL UP		240	140	620	700	
BREAKDOWN		1138	250	1106	390	
FULL LOAD		1188	100	442	116	
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 NOM. EFF. 95.0 PCT.						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA		
		CK. BY	C. E. JAMISON			
		APP. BY	E. J. CHRISTIAN			
		DATE	10/08/18			
			A44WG2115-R007 ISSUE DATE 03/11/19			

REL S.O.

RPM 1188

S.F. 1.15

ROTOR 418143080FE

FRAME 444T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 232/116

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

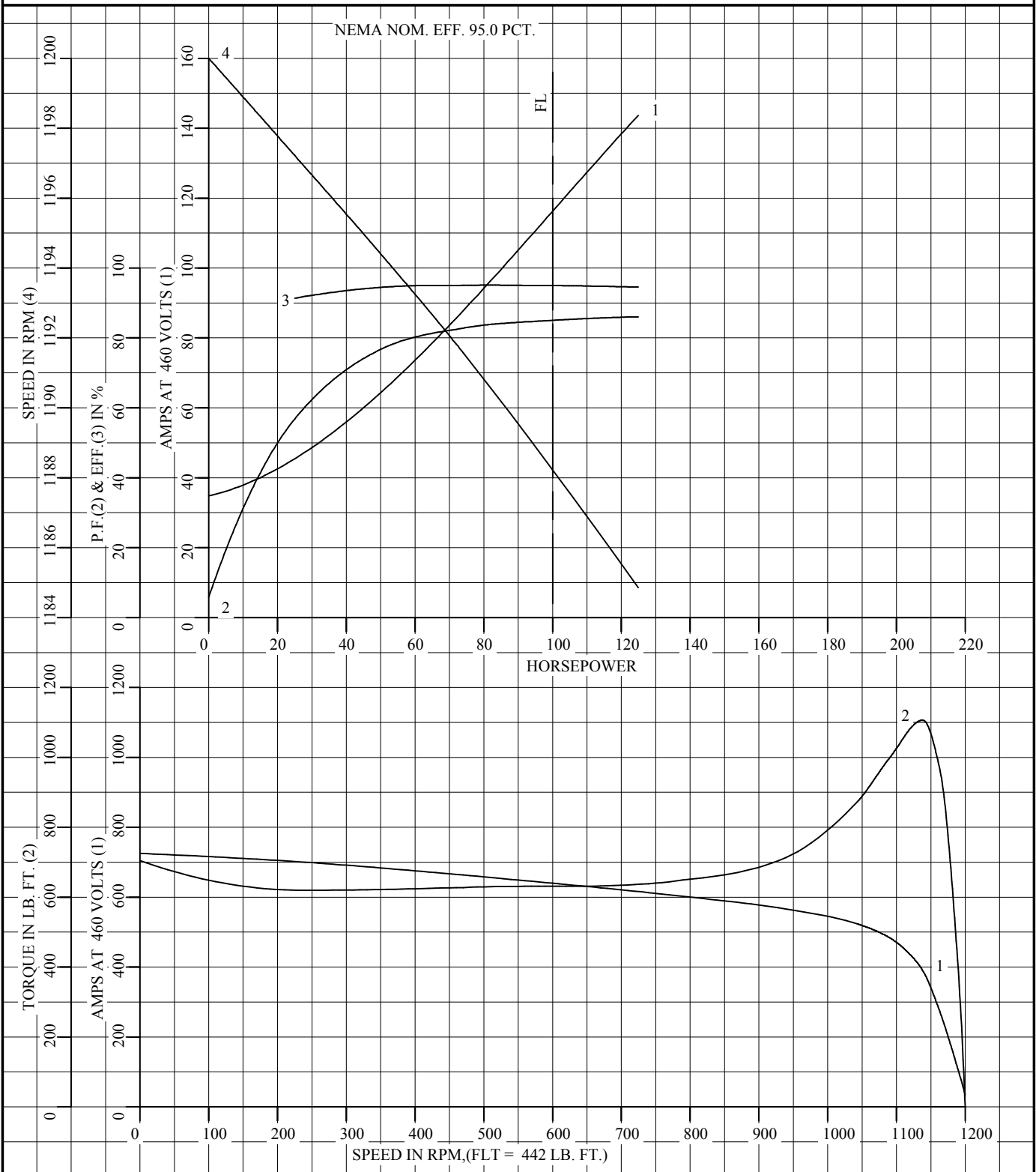
STATOR RES. @ 25 °C .0139/.0557

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497223

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 W. L. SMITH
CK. BY C. E. JAMISON
APP. BY E. J. CHRISTIAN
DATE 10/08/18

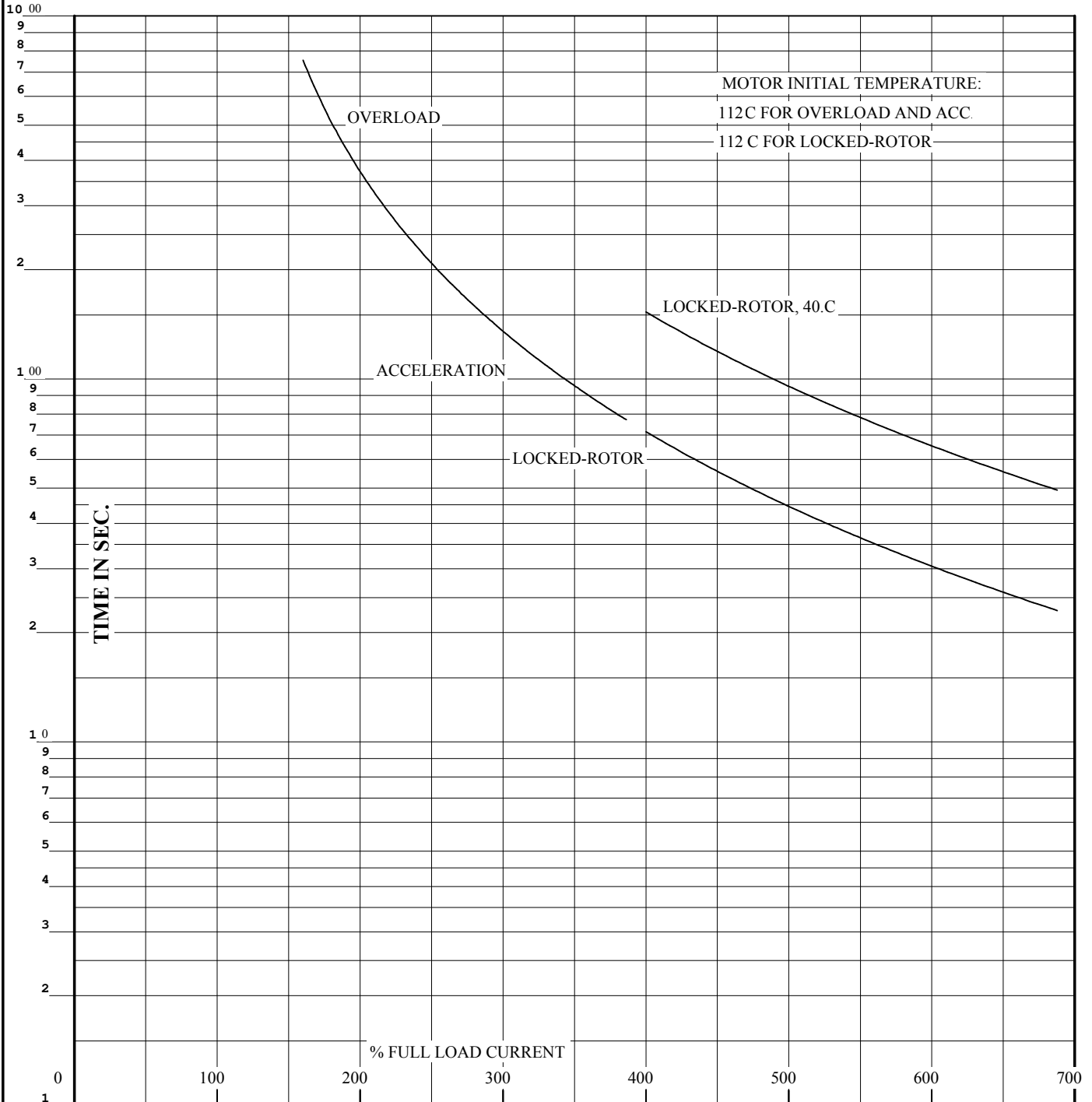
**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2115-R007

ISSUE DATE 03/11/19

Page 8 of 13

REL. S.O.	RPM 1188	S.F. 1.15	ROTOR 418143080FE
FRAME 444T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100	AMPS 232/116	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0139/.0557
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 497223	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOM. EFF. 95.0 PCT.

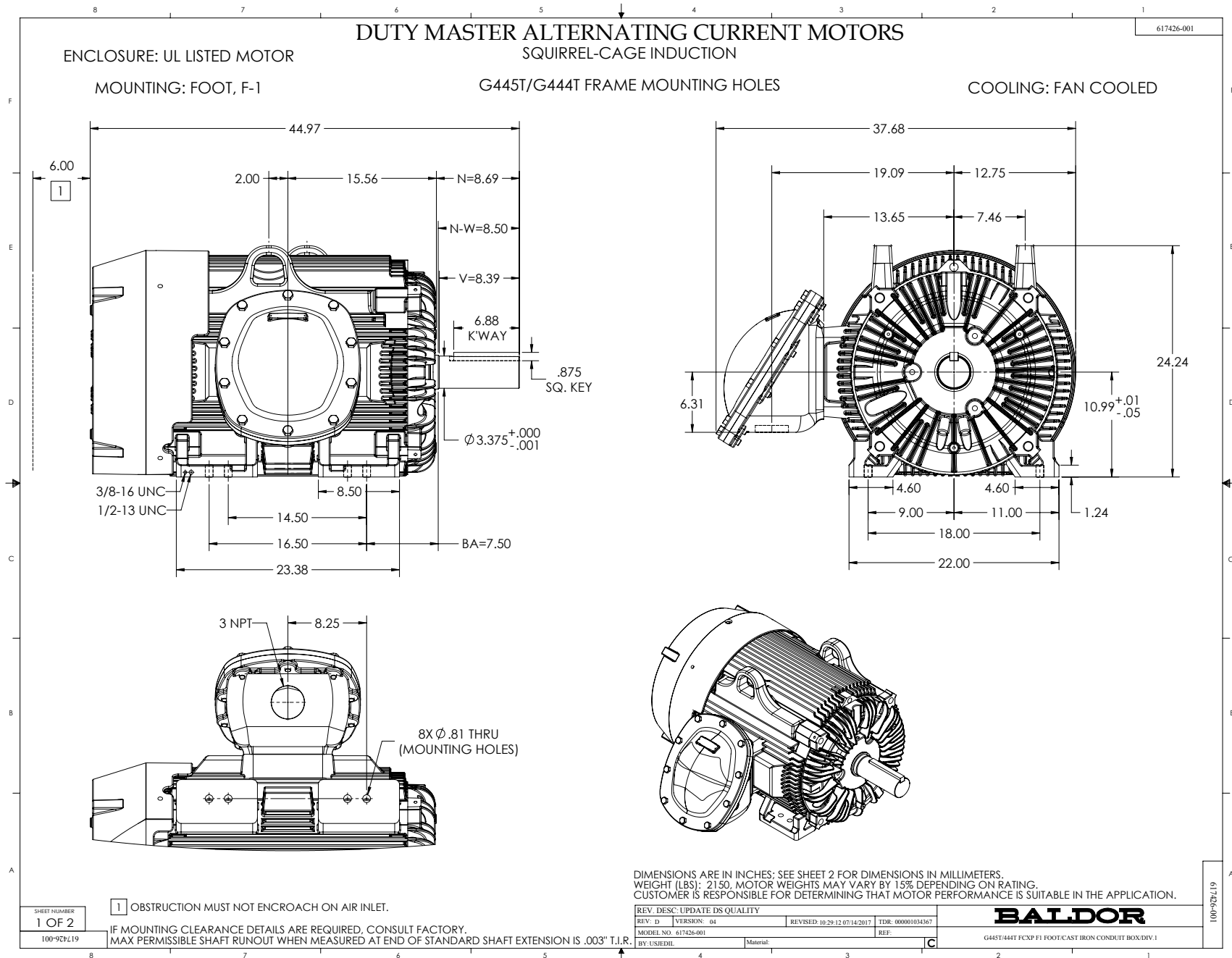
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

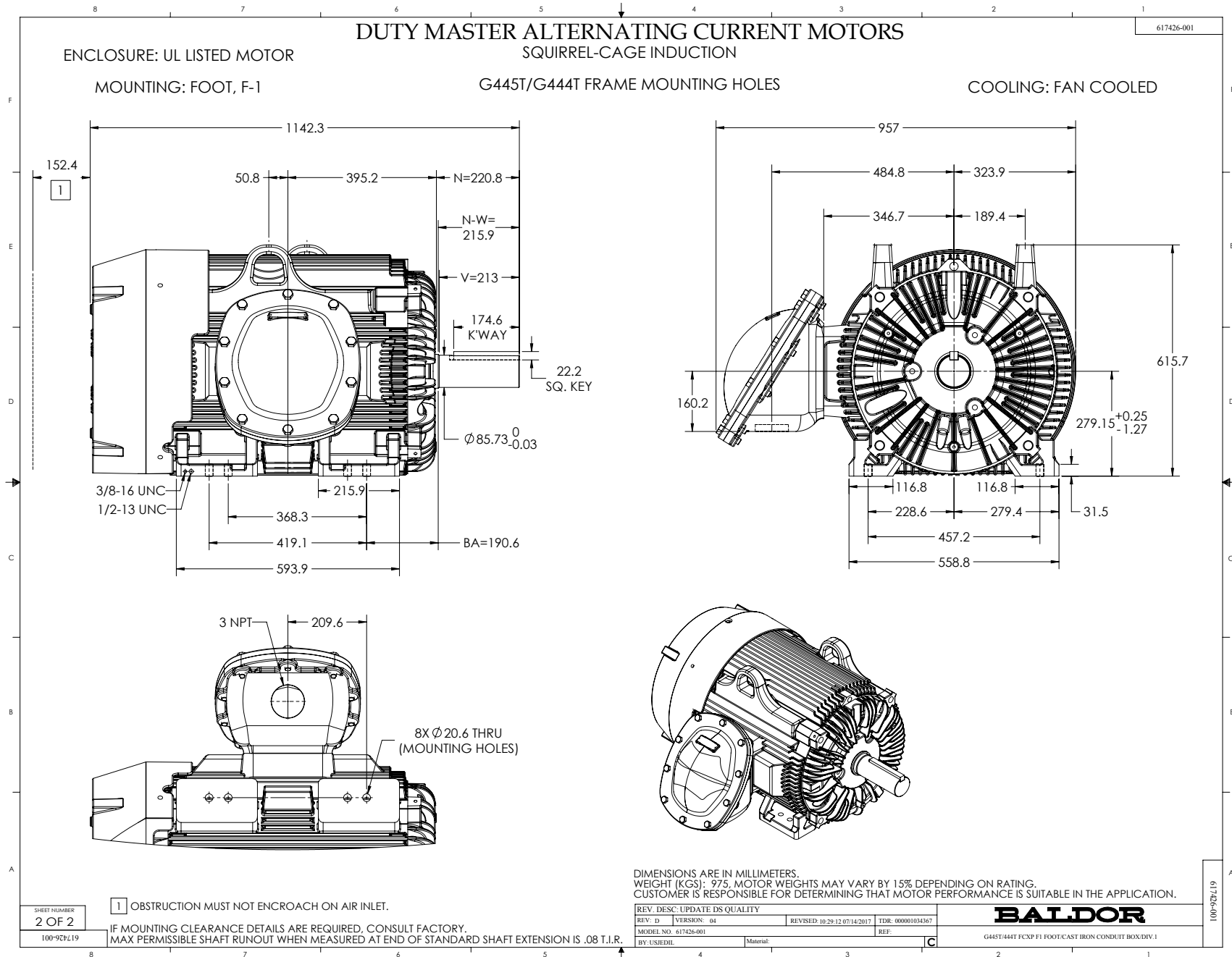


DR. BY	W.L. SMITH
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**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2115-R007
ISSUE DATE 03/11/19 Page 9 of 13





CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS	_____ @ _____ ° C	
FIGURE NUMBER	_____	
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3. 0	30
220-240	1. 5	15
440-480	0. 75	7. 5
550-600	0. 60	6. 0

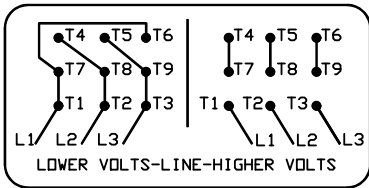
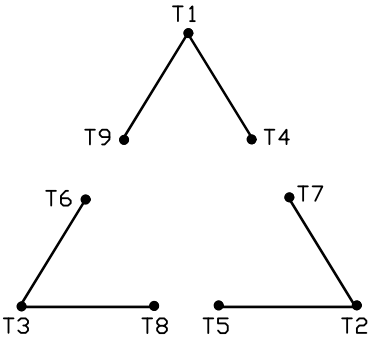
THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1	FIGURE 4
FIGURE 2	FIGURE 5
FIGURE 3	FIGURE 6
FIGURE 7	FIGURE 8

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -	© □	



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
SH1 of 1