

ABB BALDOR RELIANCE III

Customer information packet

DRX441264T

125HP, 1190RPM, 3PH, 60HZ, 445T, TEFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	TEFC
Frame	445T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	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	10-60
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	144.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2120
Layout	617426-001
Eff. date	05-06-2024
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	03-11-2019

Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44076M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.97 IN
Power Factor	86
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	Shaft Slinger
Speed	1190 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.	A44-9130-2120			CAT.NO.	DRX441264T					FRAME	445T
HP	125	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P		
RPM	1190	AMPS	144	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	59.4	MAG CUR	51.4	RPM MAX		2700			
CT HZ	10-60	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
	445T	125	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
144	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
599769	418143-080-GE	---	---	.0408		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	51.4	1200	4.76	0	
1/4	31.3	61.8	1197	51.7	91.6	
2/4	62.5	84.2	1195	73.5	94.6	
3/4	93.7	112	1192	82.2	95.1	
4/4	125	144	1189	85.8	95.0	
5/4	156	178	1185	87.1	94.5	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	141	777	911	
PULL UP		180	127	701	893	
BREAKDOWN		1143	277	1528	513	
FULL LOAD		1189	100	552	144	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA XE - MOTOR; NEMA NOM. EFF.= 95.0 PCT.; GUAR MIN . EFF.= 94.1 PCT.						
			DR. BY M.C. BENTON CK. BY S.E. WALLACE APP. BY E.J. CHRISTIAN DATE 04/09/90	A-C MOTOR PERFORMANCE DATA A44WG2120-R032 ISSUE DATE 04/30/21	Page 7 of 13	

REL S.O.

 RPM **1190**

 S.F. **1.15**

 ROTOR **418143-080-GE**

 FRAME **445T**

 VOLTS **460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **125**

 AMPS **144**

 CODE LETTER **G**

TEST DATE ---

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

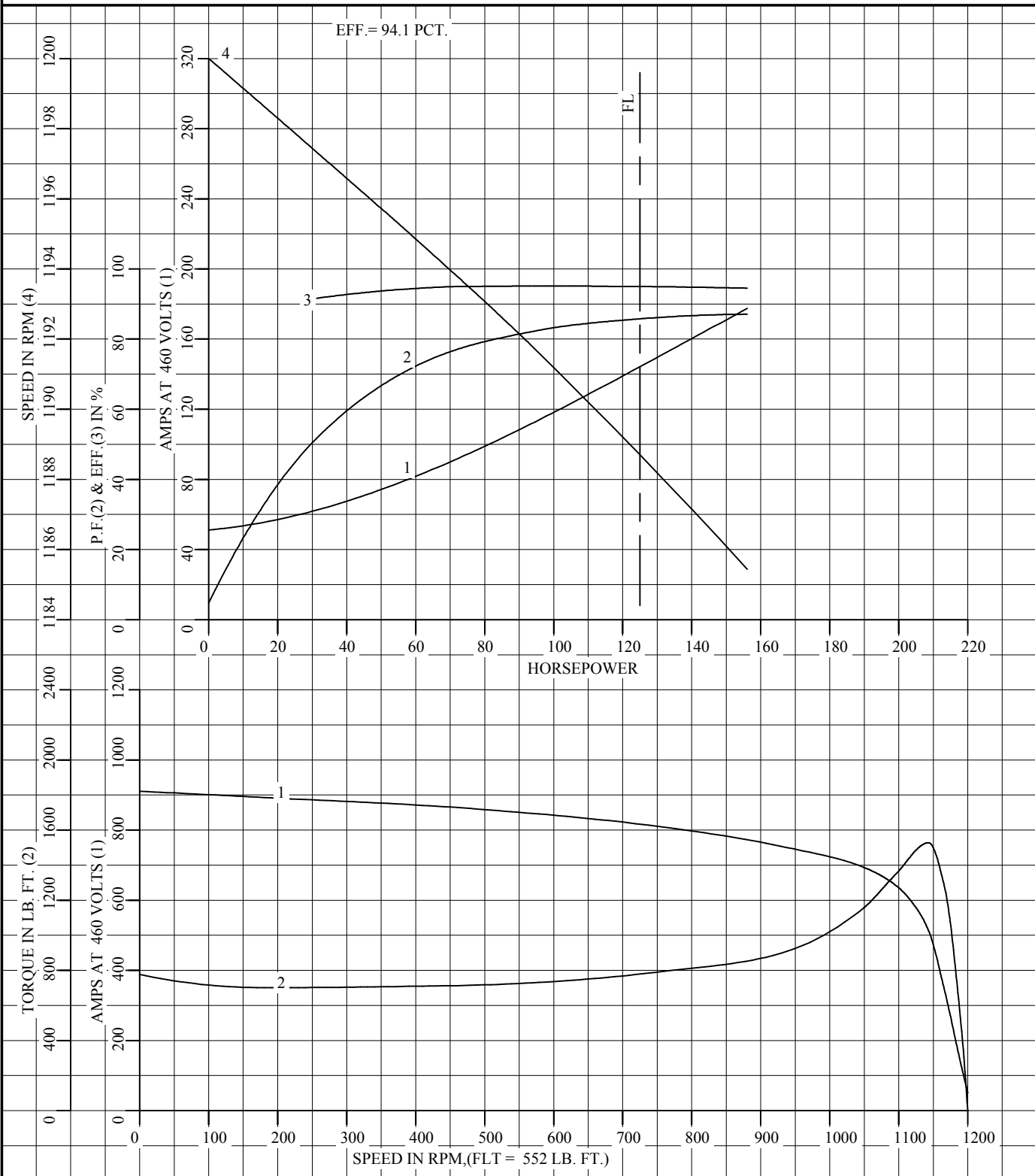
 STATOR RES. @ 25 °C **.0408**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **599769**

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 M.C. BENTON
CK. BY S.E. WALLACE
APP. BY E.J. CHRISTIAN
DATE 04/09/90

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2120-R032

ISSUE DATE 04/30/21

Page 8 of 13

REL. S.O.

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 S.F. **1.15**

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 AMPS **144**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

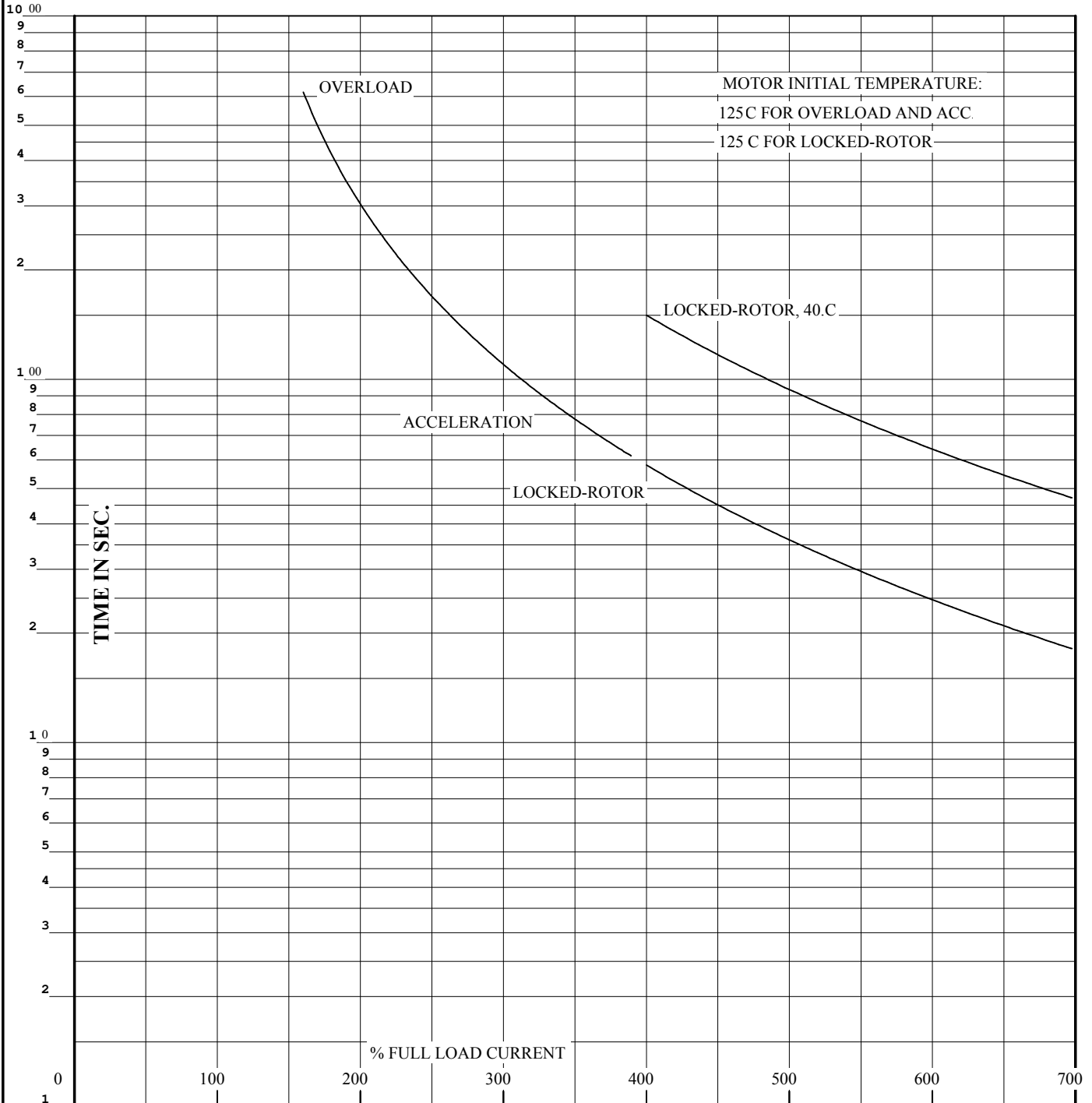
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OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

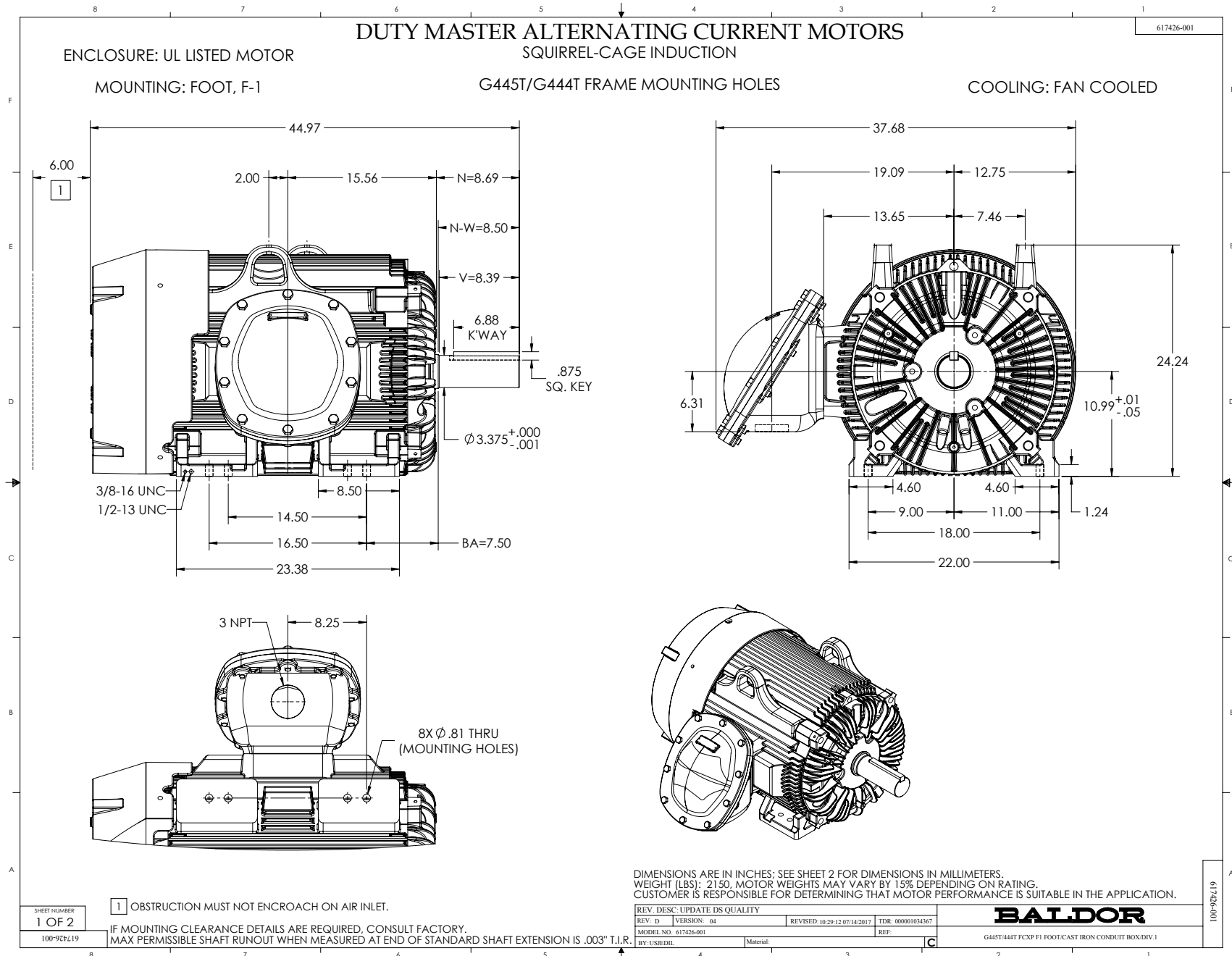
EFF.= 94.1 PCT. T CURVE

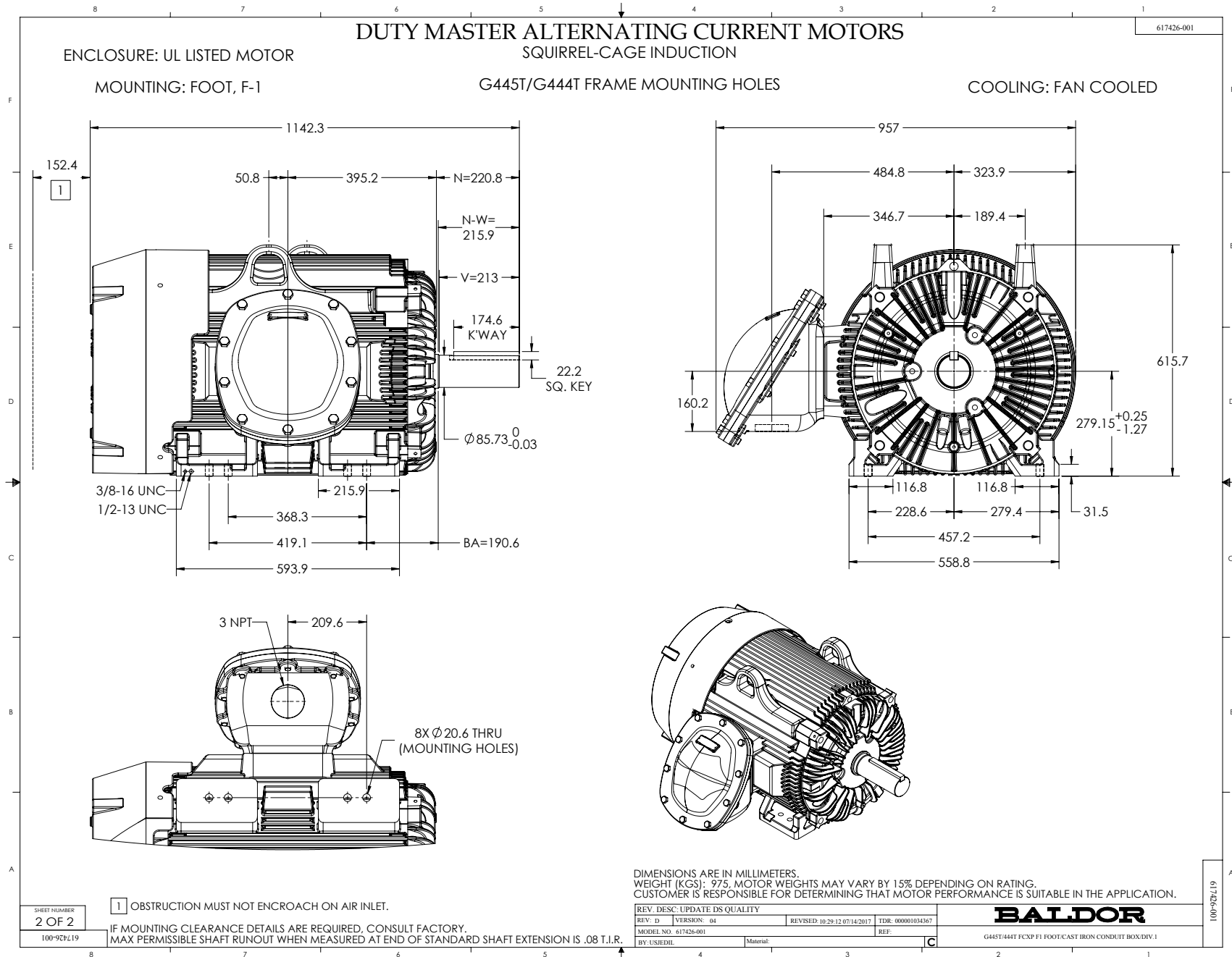
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BALDOR
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 DR. BY M.C. BENTON
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**A-C MOTOR
PERFORMANCE
CURVES**
A44WG2120-R032

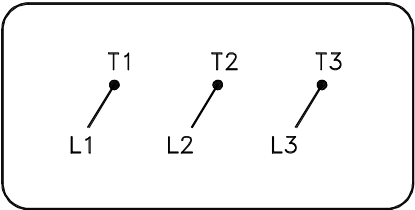
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416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

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

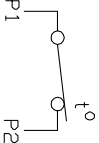
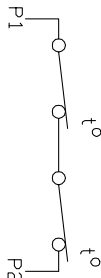
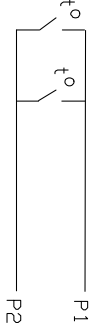
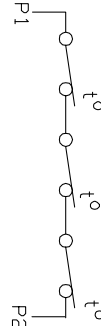
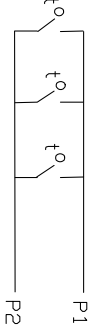
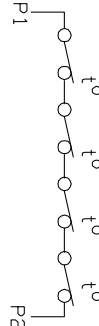
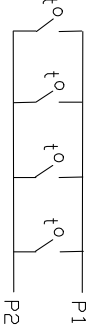
BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1

416820-036

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. _____

418174-006

418174-006

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: -		

BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1