

ABB BALDOR RELIANCE III

Customer information packet

DRX441244T

125HP, 1785RPM, 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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	6-60
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
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	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3870
Layout	617426-001
Eff. date	05-06-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	03-11-2019

Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44076M
Mounting Arrangement	F1
Number of Poles	4
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	Shaft Slinger
Speed	1785 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.	A44-9276-3870			CAT.NO.	DRX441244T					FRAME	444T
HP	125	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P		
RPM	1785	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	MAG CUR	44.8	RPM MAX		3600				
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90	NEMA-NOM-EFF		95.4			
	SUIT FOR 55C AMB AT 1.00 SF					IP55					
SER.NO.				MOTOR WEIGHT							

Parts List

Part number	Description	Quantity
SA367507	SA A44-9276-3870	1.000 ea
RA356967	RA A44-9276-3870	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
LB1073	ALUM XP CAUTION LABEL	1.000 ea
000613006PC	N/P U/L (REL QTY 500)	1.000 ea
NP3140L	INVERTER DUTY, SS, CC, CSA-C US, CSA EEV	1.000 ea
HW4505A02	BREATHING/DRAIN-EXP PROOF-.250-18 PTF AIS	2.000 ea
609158001D	SLGR - 440	1.000 ea
603284001W	SLGN - 449	1.000 ea
089448117B	G28 X/P FT MNT ODE BRKT MCHG 6318	1.000 ea
415072001B	CLAMP	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014GA	KEY 1/2X1/2X1-3/4 L	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032130024HB	HSHCS 1-8X3" PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	3.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002A	SLGR	1.000 ea
410700004A	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
702623018B	BRKT MOUNTED G28 XP T-BARRIER - 6318 BRG	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea

034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
089448117A	G28 X/P FT MNT DE BRKT MCHG 6318	1.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	3.000 ea
415045002A	SLGR	1.000 ea
034017016AB	LCKW 1/2" PLATED	3.000 ea
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032130024HB	HSHCS 1-8X3" PLATED	4.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
18CB1004A01	STD CONDUIT BOX 444-449T 318 EXPL PROOF	1.000 ea
18CB1504A01	STD CONDUIT BOX LID 444-449T 318 EXPL PR	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	10.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
032130016EB	HSHCS 5/8-11X2 PLTD.	10.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	1.000 ea
034017016AB	LCKW 1/2" PLATED	1.000 ea
032130020EB	HSHCS 5/8-11X2-1/2PLTD.	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.440 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							DRX441244T - 125HP, 1785RPM, 3PH, 60HZ, 444T, TEFC, F1						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			444			125			P			3/60			1785			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
144			CONT			40/F			1.15			B			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
498834			418143052KE			---			---			.0383								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			44.8			1800			4.44			0					
1/4			31.3			61.7			1796			51.1			92.8					
2/4			62.5			84.1			1792			73.0			95.3					
3/4			93.7			112			1788			81.7			95.7					
4/4			125			144			1784			85.3			95.5					
5/4			156			178			1780			86.6			95.1					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			133			489			892					
PULL UP						270			114			420			875					
BREAKDOWN						1729			290			1067			500					
FULL LOAD						1784			100			368			144					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.4PCT.																				
						DRAWN BY: <u>CD</u> CHECKED BY: <u>CD</u> APPROVED BY: <u>R. MCELVEEN</u> DATE: <u>1/18/11</u>						AC MOTOR PERFORMANCE DATA			A44WG3870-R001 DATE ISSUED 05/04/21					

FRAME 444

RPM 1785

VOLTS 460

ROTOR 418145052KE

HP 125

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

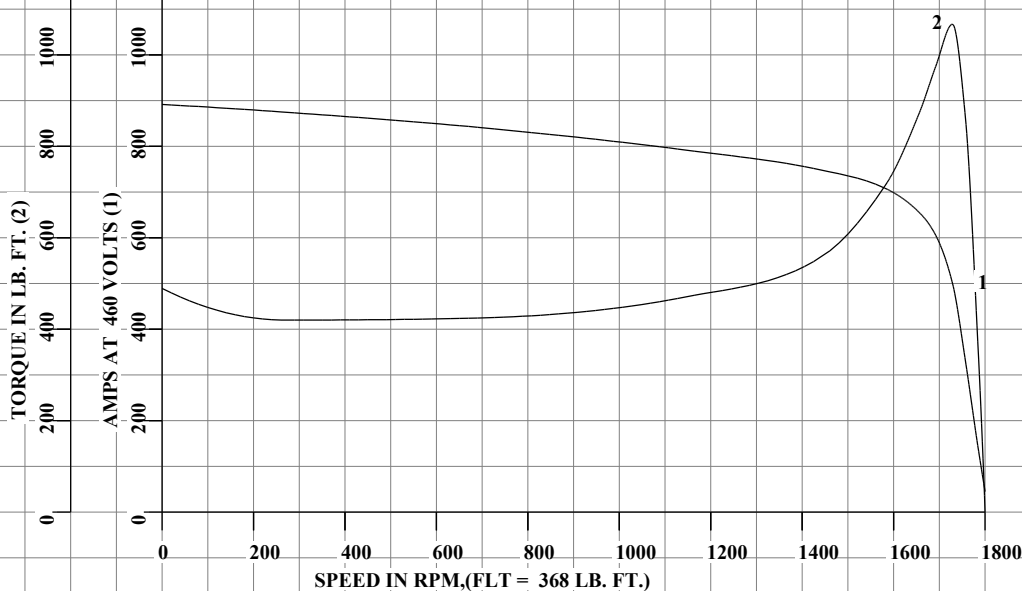
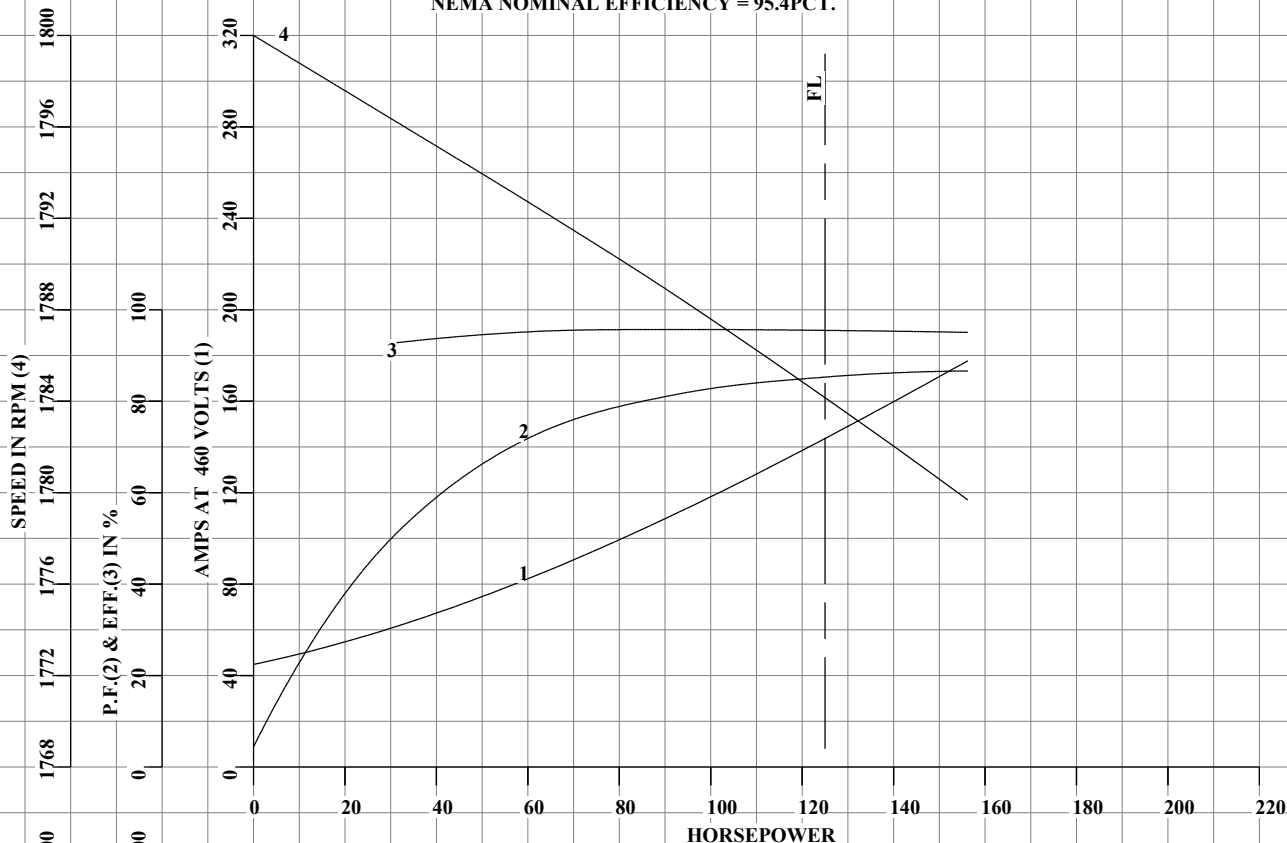
STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.4PCT.



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



DRAWN BY: CD
CHECKED BY: CD
APPROVED BY: R. MCELVEEN
DATE: 1/18/11

AC MOTOR
PERFORMANCE
DATA

A44WG3870-R001

ISSUE DATE 05/04/21

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418145052KE

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 144

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

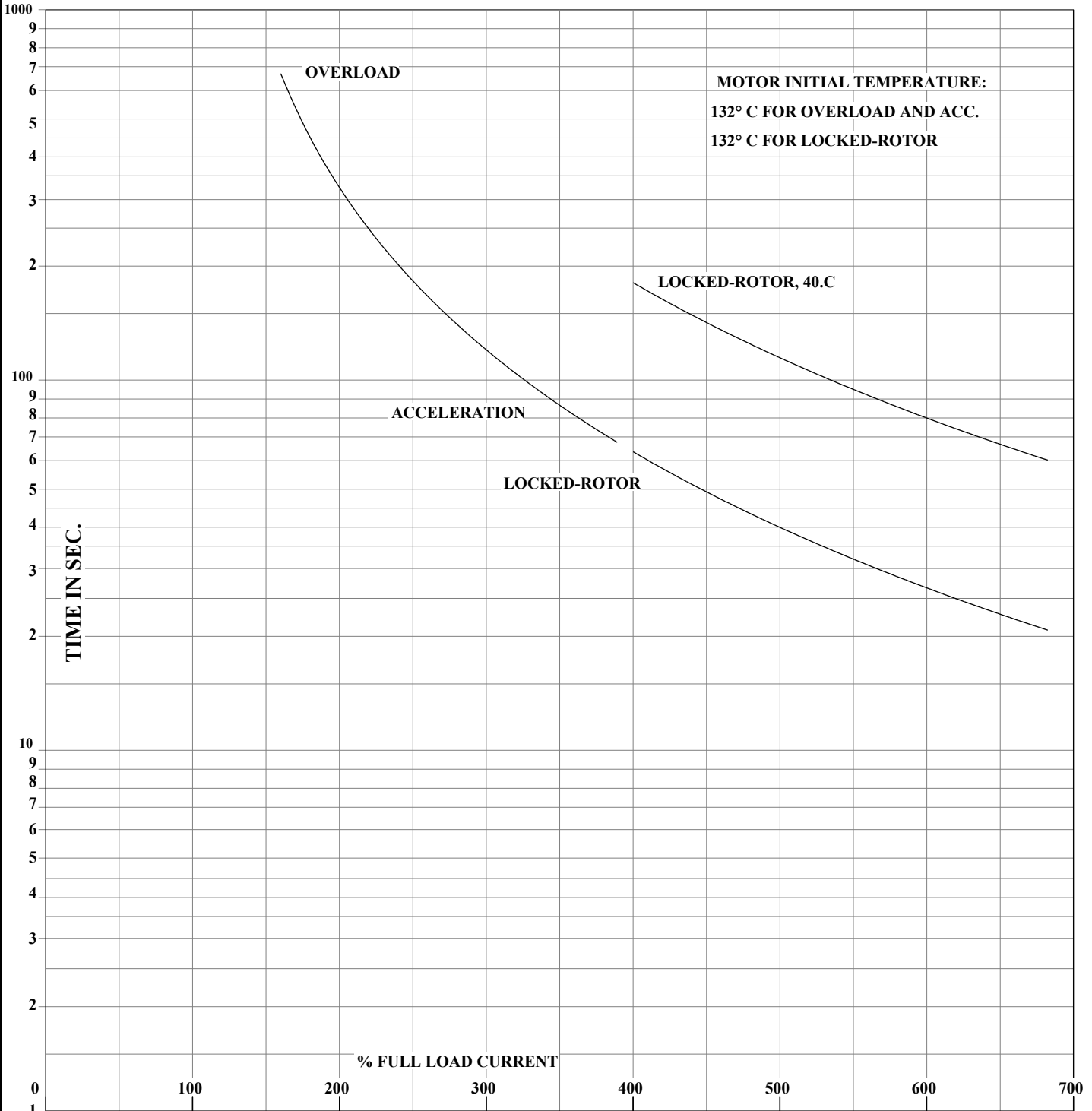
ENCLOSURE TEFC

STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.4PCT.

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

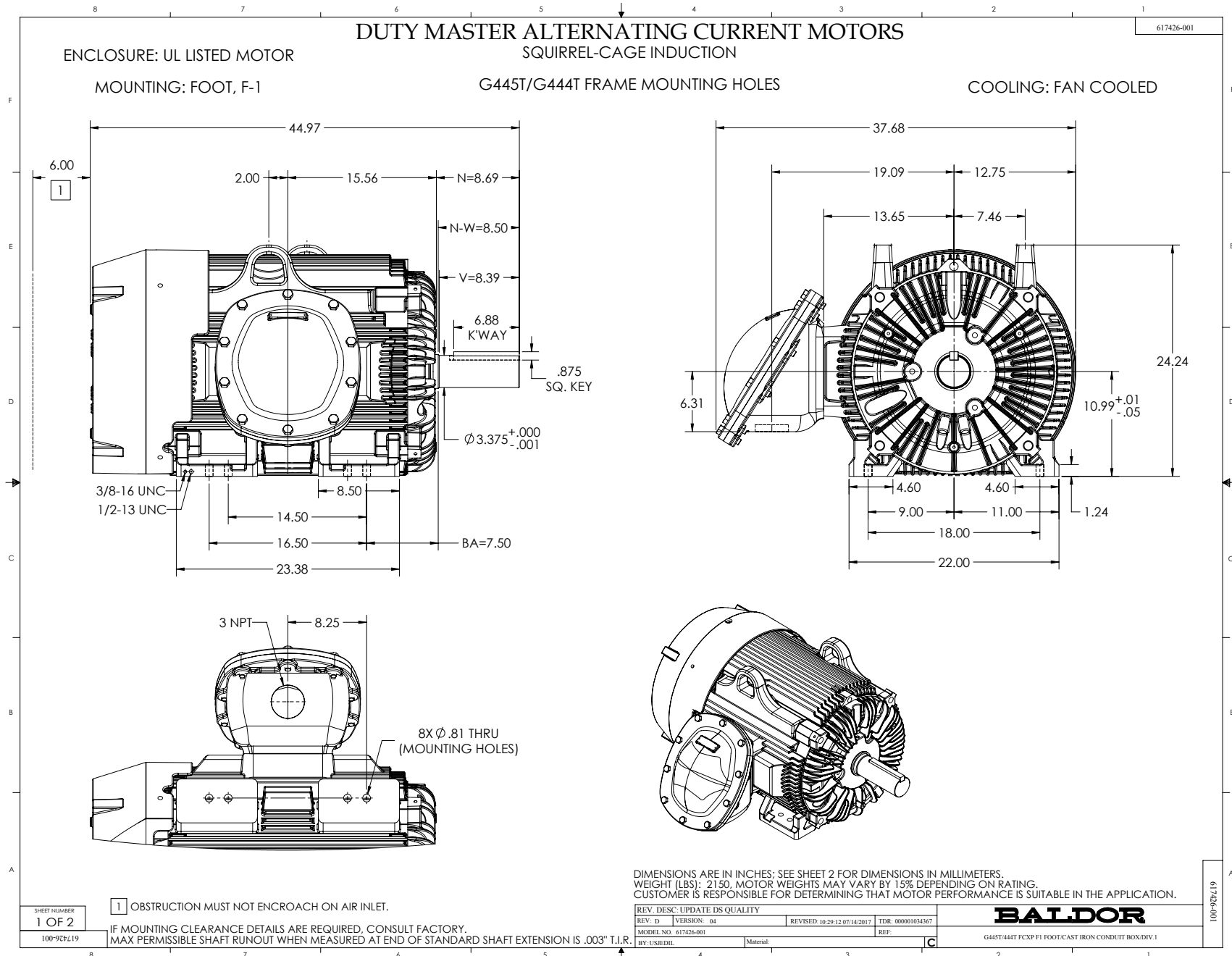


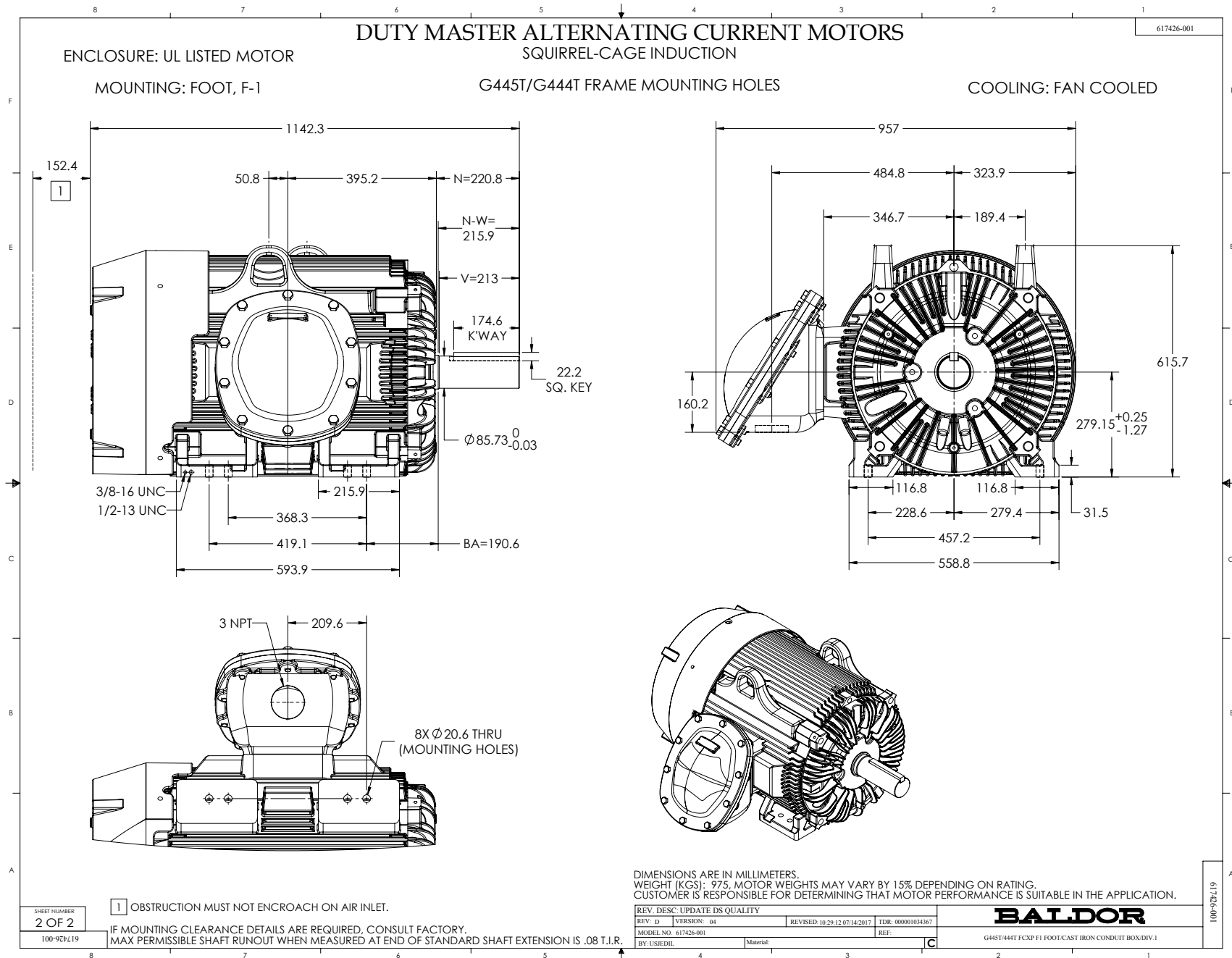
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APPROVED BY: R. MCELVEEN
DATE: 1/18/11

AC MOTOR
PERFORMANCE
DATA

A44WG3870-R001

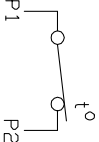
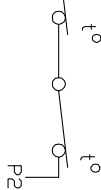
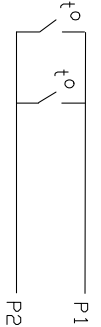
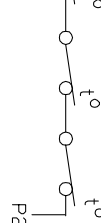
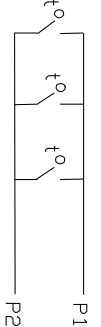
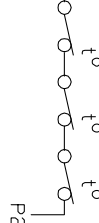
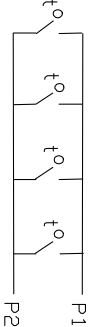
ISSUE DATE 05/04/21





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: -		

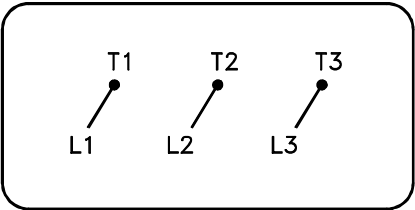
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

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