

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						

CUSTOMER INFORMATION PACKET		DRX441244T - 125HP, 1785RPM, 3PH, 60HZ, 444T, TEFC, F1				
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>	AC MOTOR PERFORMANCE DATA	A44WG3870-R001
	CHECKED BY: <u>CD</u>		
	APPROVED BY: <u>R. MCELVEEN</u>		DATE ISSUED 05/04/21
	DATE: <u>1/18/11</u>		

FRAME 444

RPM 1785

S.F. 1.15

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 125

VOLTS 460

AMPS 144

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

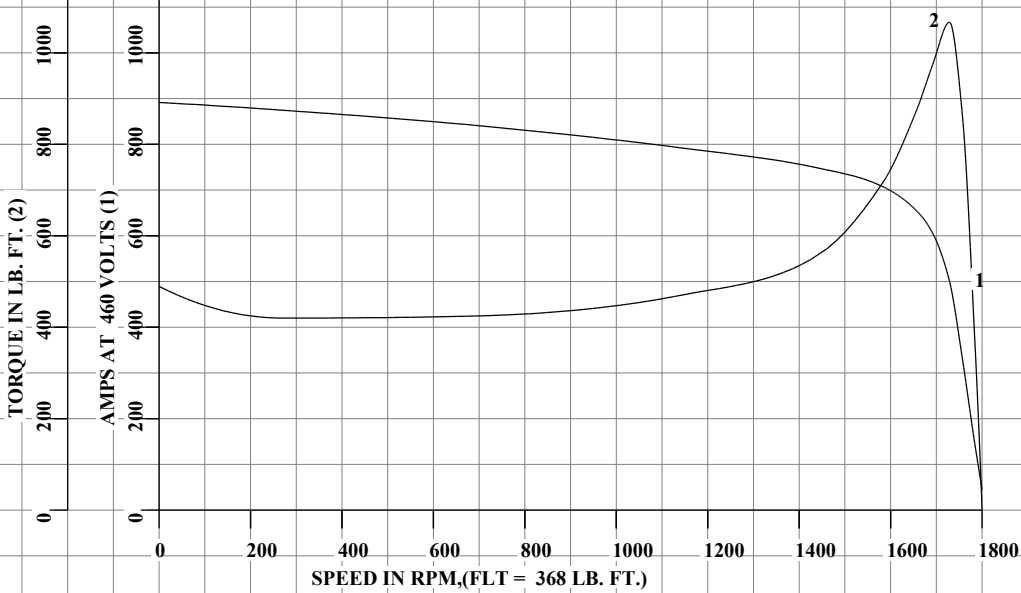
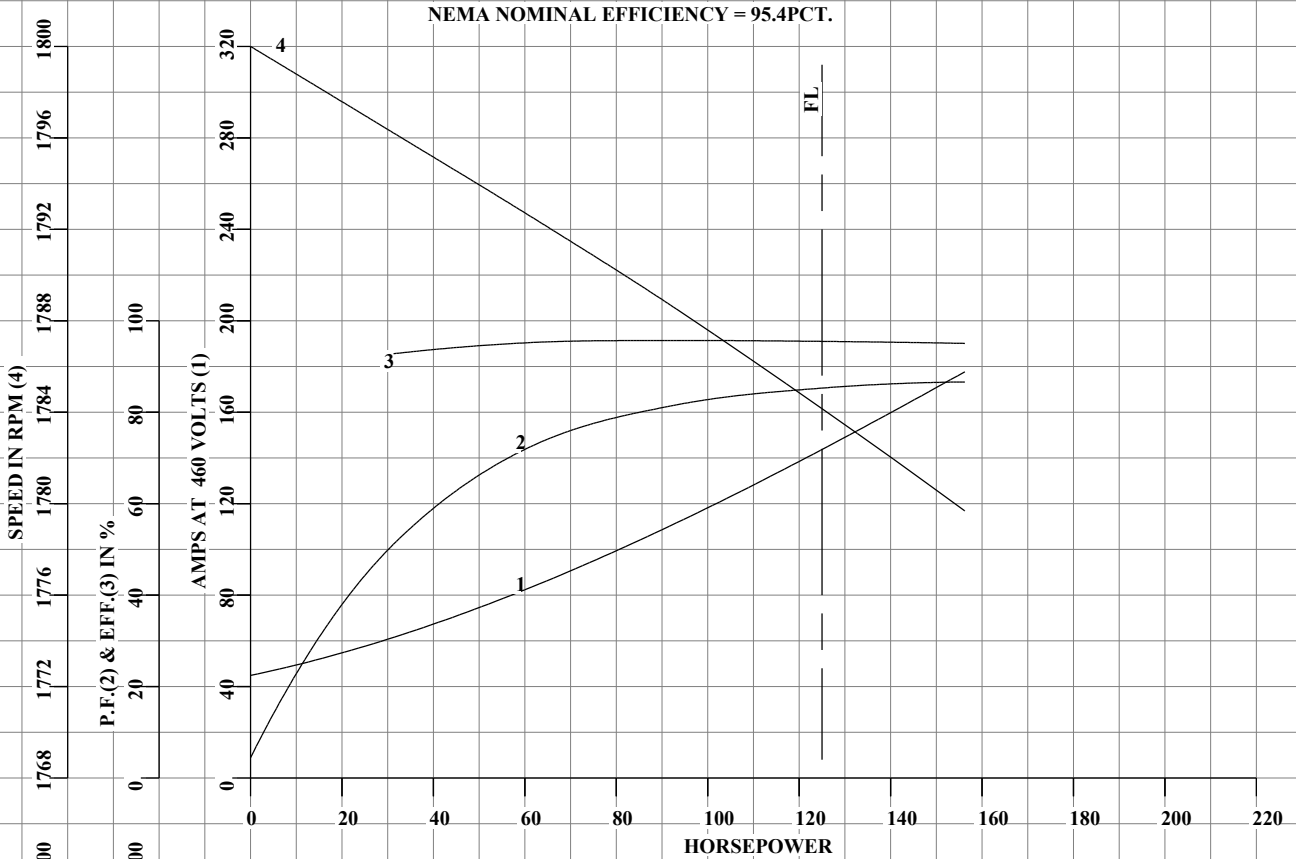
STATOR RES. @ 25°C .0383

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)



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

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

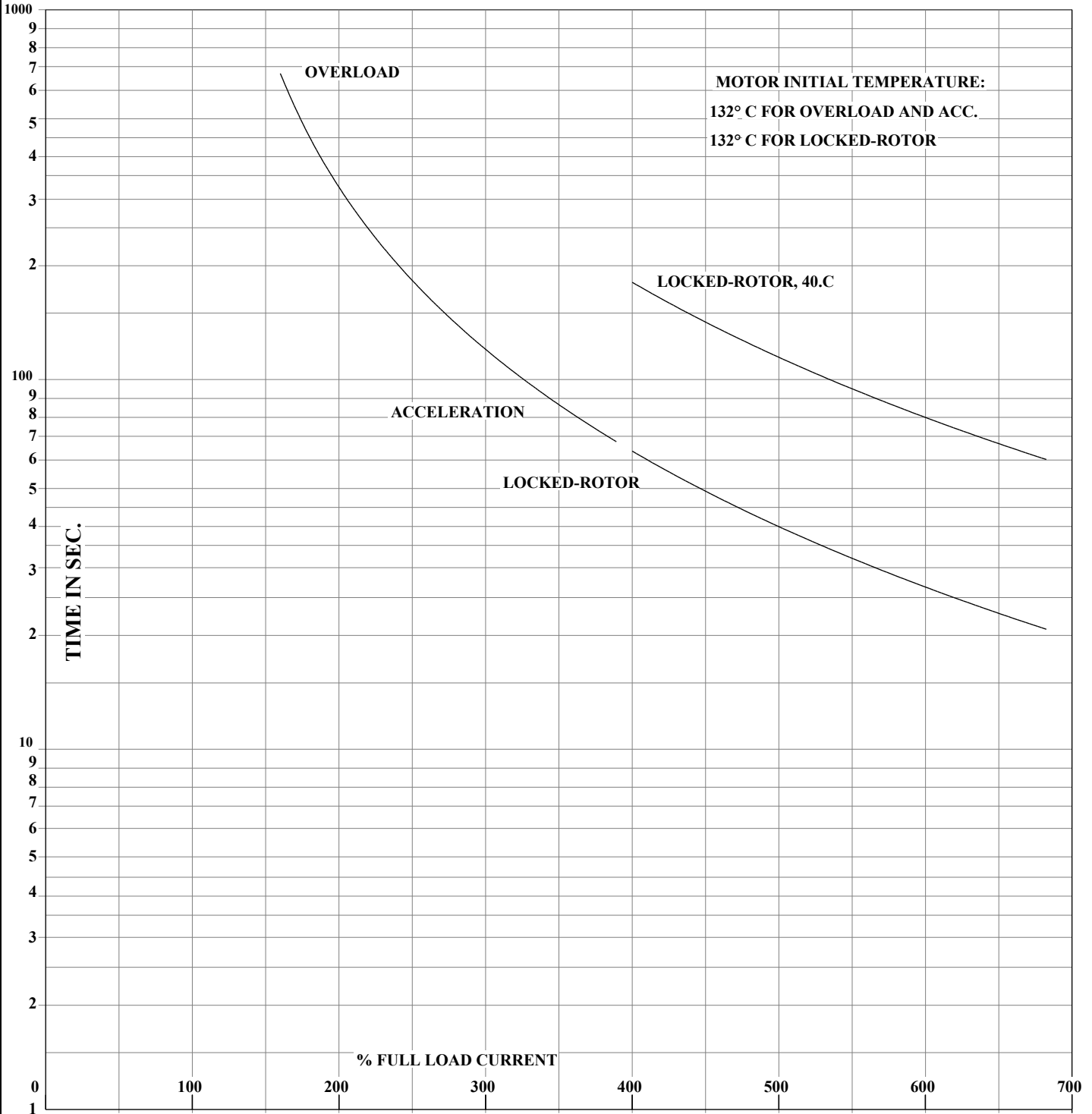
STATOR RES. @ 25°C .0383

PHASE / HERTZ 3/60

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.

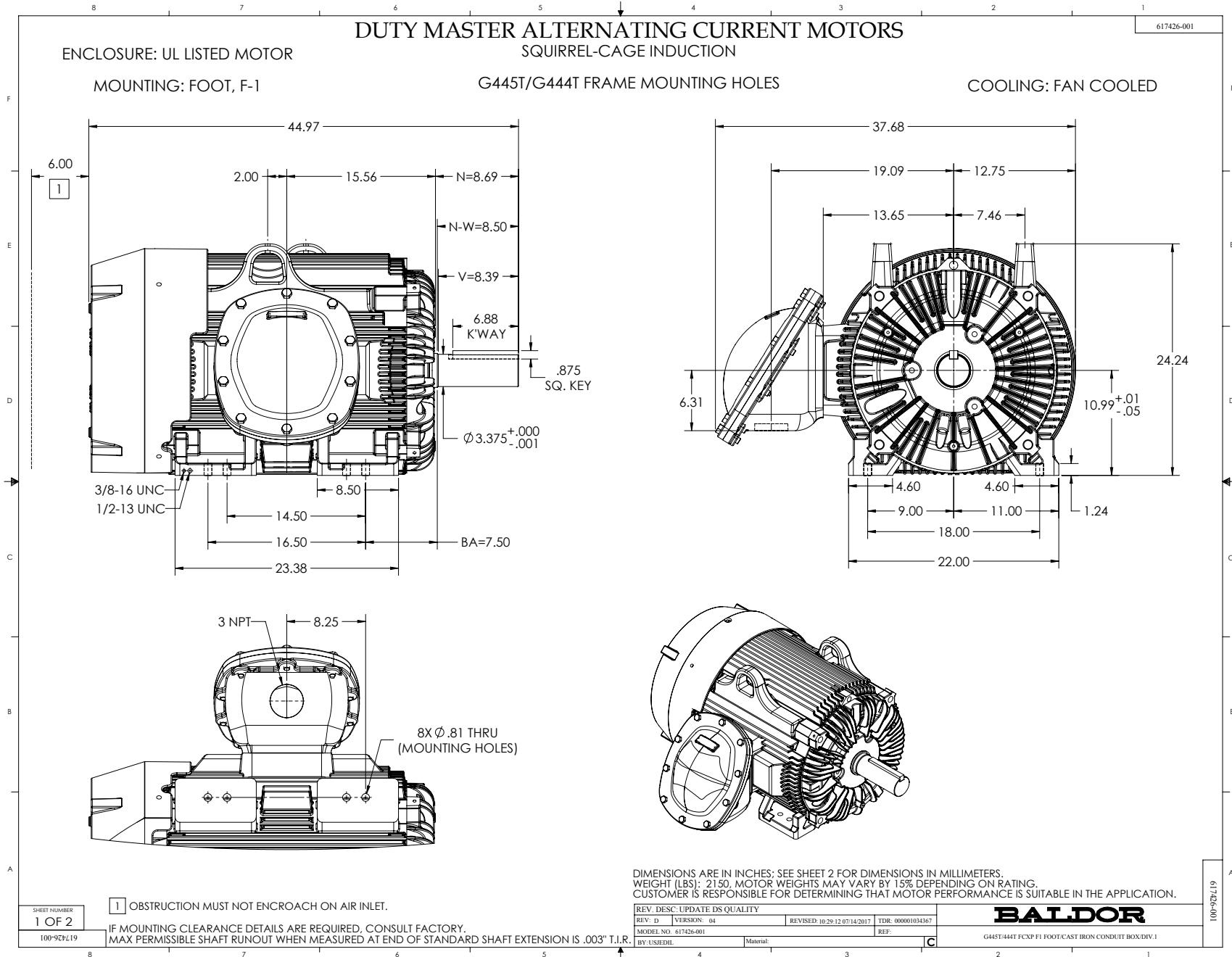


DRAWN BY: CD
CHECKED BY: CD
APPROVED BY: R. MCELVEEN
DATE: 1/18/11

**AC MOTOR
PERFORMANCE
DATA**

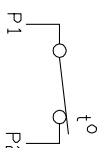
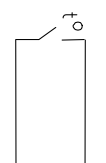
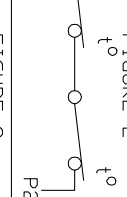
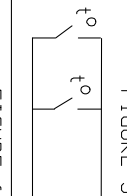
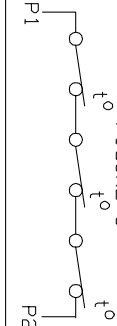
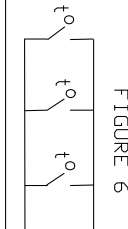
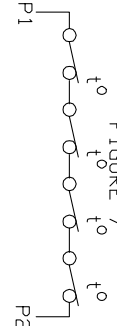
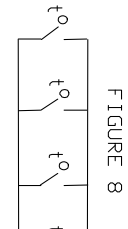
A44WG3870-R001

ISSUE DATE 05/04/21



CONNECTION DIAGRAM ACCESSORIES

MOTOR WINDING THERMOSTATS	
CONTACTS _____ @ _____ °C	
FIGURE NUMBER _____	
CONTACT RATING	
VOLTS	CONTINUOUS AMPERES
110-120	3.0
220-240	1.5
440-480	0.75
550-600	0.60
	INRUSH AMPERES
	30
	15
	7.5
	6.0

NORMALLY CLOSED	THERMOSTATS	NORMALLY OPEN
 <p>FIGURE 1</p>		 <p>FIGURE 4</p>
 <p>FIGURE 2</p>		 <p>FIGURE 5</p>
 <p>FIGURE 3</p>		 <p>FIGURE 6</p>
 <p>FIGURE 7</p>		 <p>FIGURE 8</p>

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: -		

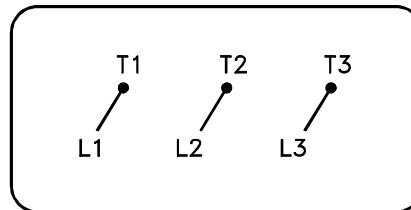
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

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