

ABB BALDOR RELIANCE III

Customer information packet

CXT31504T-4

150HP, 1785RPM, 3PH, 60HZ, 445TC, A4488M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	169.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3335
Layout	617427-802
Eff. date	07-08-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	08-18-2020

KVA Code	F
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.97 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	None

Nameplate

NP4152LUA																
CAT #		CXT31504T-4				SER				CC		010A				
SPEC		A44-9287-3335				RATING		40C AMB-CONT								
HZ		VOLTS		AMPS		RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF		
60		460		169		1785		150	F		1.15	B	86	%	95.8	%
													%		%	
PH	3	CL	F	MAX RPM		2700	MAX CORR KVAR			30						
BRG		DE	6318		ODE	6318		ENCL	TEFC	FR	445TC		IP			
GREASE		POLYREX EM									MTR WT			LBS		
CL I DIV 2 GRPS A,B,C,D				CL I ZONE 2 GRPS				IIA,IIB,IIC				TEMP T		200	C	
INV READY		CT	15-60	HZ	4:1	VT	0-60	HZ	1000:1		CHP	60-90	HZ	1:1.5		
INV TEMP CL		T3	C	USABLE AT		50HZ 125HP 380V 171A							1.0SF			

Parts List

Part number	Description	Quantity
SA385089	SA A44-9287-3335	1.000 ea
RA375328	RA A44-9287-3335	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP4152LUA	SS CP XT CLI DIV2 UR CSA-C US-EEV NEMA P	1.000 ea
412118006A	DRAIN	2.000 ea
034690005AB	PPLG 3/4 PLATED	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415072001B	CLAMP	1.000 ea
083199126RA	G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	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
032620016LA	SOCKET SET SCREW-449	3.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
089490106R	G28 C-FACE BRKT MACH-6318 089490105WCA	1.000 ea

032018024FK	HHCS 3/4-10X3 PLTD.	5.000 ea
032018032DK	HHCS 1/2-13X4L PLATED	3.000 ea
415045002A	SLGR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
702658001A	CONDUIT BOX, E440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	1.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
418153001A	GASK 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025L14	WILKOFAS, 776.14, GRUNDFOS BLACK	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 CXT31504T-4 - 150HP, 1785RPM, 3PH, 60HZ, 445TC, A4488M, TEFC						
S/O		FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS	
		445T		150		P		3/60		1785		460	
AMPS		DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE	
169		CONT		40/F		1.15		B		F		TEFC	
E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)					
498808		418143053AE		---		---		.0298					
PERFORMANCE													
LOAD		HP		AMPERES		RPM		% POWER FACTOR			% EFFICIENCY		
NO LOAD		0		48.9		1800		4.26			0		
1/4		37.6		69.1		1796		54.3			93.6		
2/4		75.0		97.1		1792		75.6			95.7		
3/4		112		131		1788		83.4			96.0		
4/4		150		169		1784		86.5			95.8		
5/4		188		210		1779		87.6			95.3		
SPEED TORQUE													
				RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.			AMPERES		
LOCKED ROTOR				0		130		572			1041		
PULL UP				270		116		511			1020		
BREAKDOWN				1729		280		1237			579		
FULL LOAD				1784		100		442			169		
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 = 95.8 PCT.													
				DRAWN BY: <u>C.B.ATANGANE</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>C.E.JAMISON</u> DATE: <u>10/16/23</u>				AC MOTOR PERFORMANCE DATA		A44WG3335-R001 DATE ISSUED 02/03/25			

FRAME 445T

RPM 1785

S.F. 1.15

ROTOR 418143053AE

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 169

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

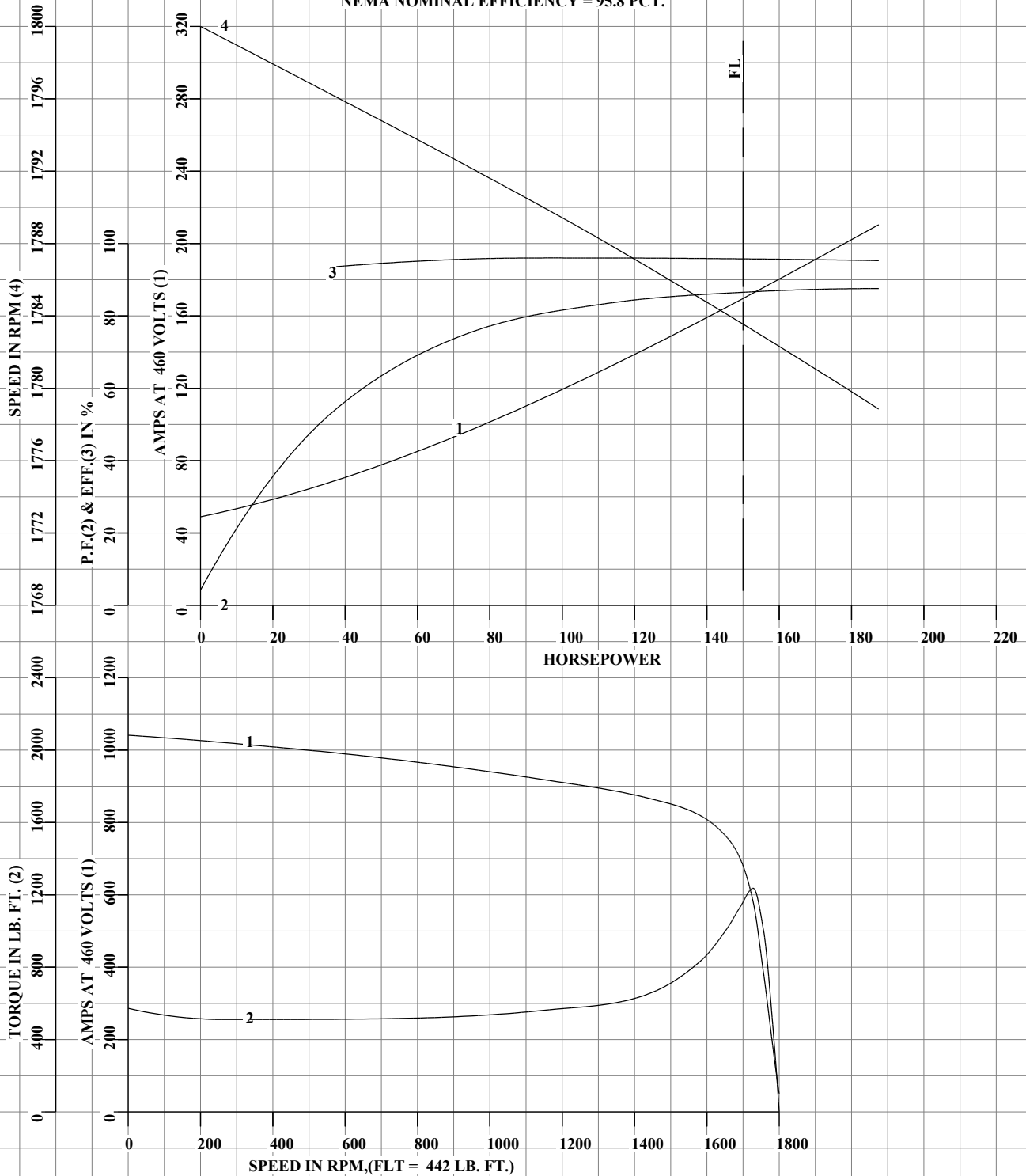
STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.8 PCT.



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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AC MOTOR
PERFORMANCE
DATA

A44WG3335-R001

ISSUE DATE 02/03/25

FRAME 445T

RPM 1785

S.F. 1.15

ROTOR 418143053AE

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 169

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

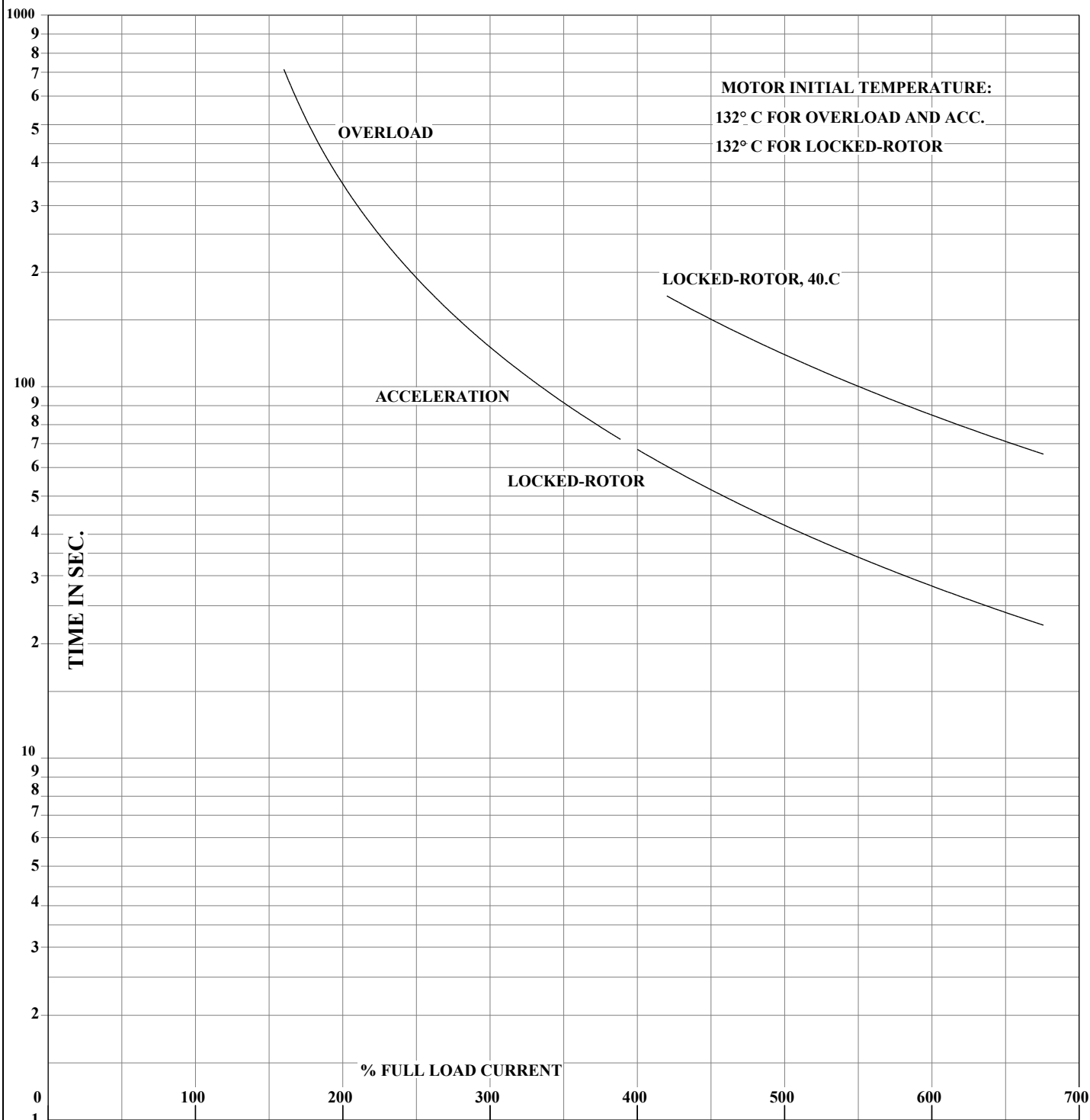
ENCLOSURE TEFC

STATOR RES. @ 25°C .0298

AMB °C / INSUL 40/F

E/S 498808

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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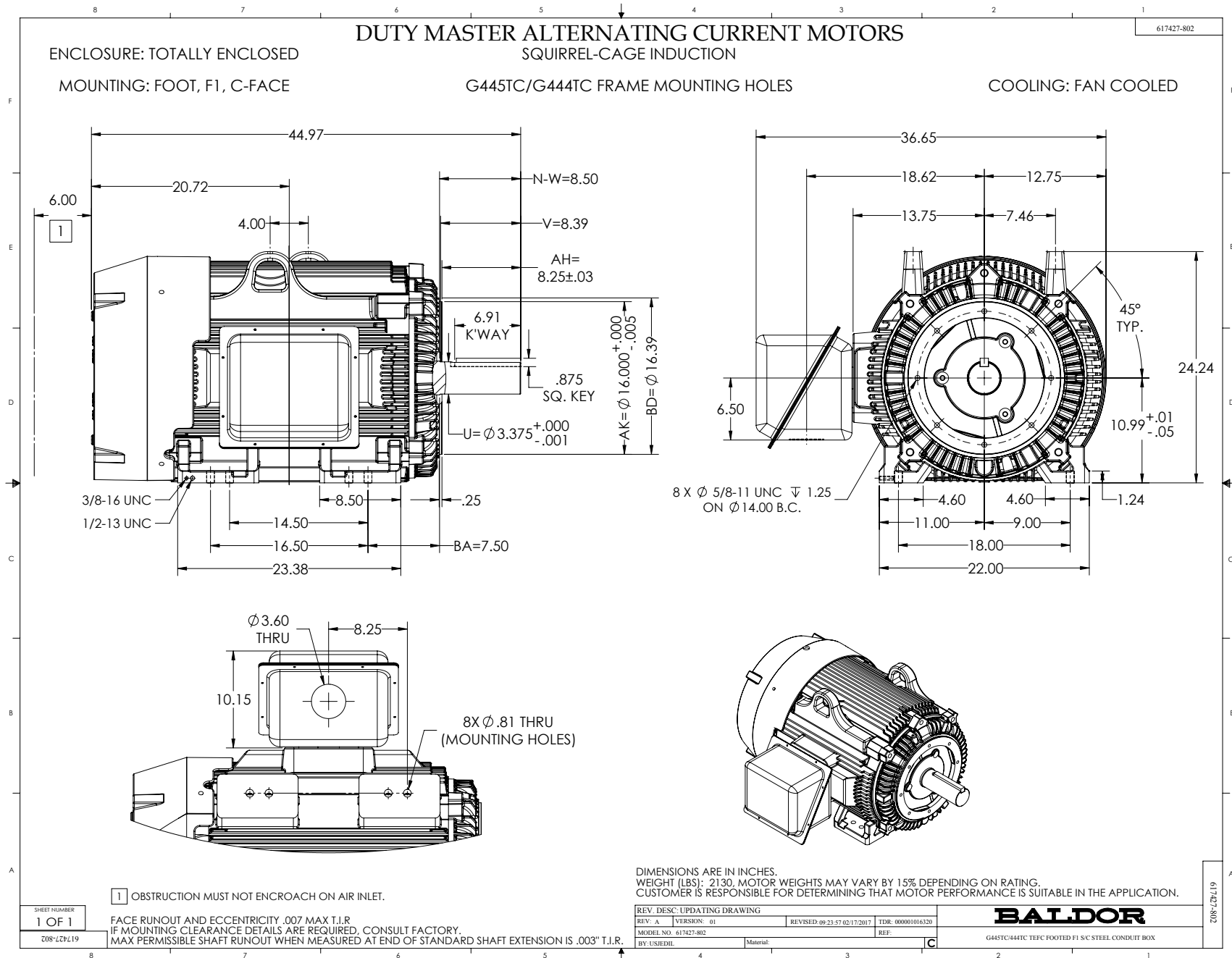


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AC MOTOR
PERFORMANCE
DATA

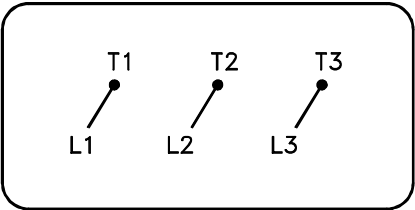
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ISSUE DATE 02/03/25



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