

ABB BALDOR RELIANCE III

Customer information packet

CXT33004T-5

300HP, 1785RPM, 3PH, 60HZ, 449TC, A44160M, TEF

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	449TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR NEMA_PREMIUM NEMA PREMIUM CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	267.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	267.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Max Speed	3600 rpm

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5582
Layout	617427-670
Eff. date	07-08-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	09-16-2021

Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.47 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
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 #	CXT33004T-5					SER				CC	010A		
SPEC	A44-0003-5582					RATING	40C AMB-CONT						
HZ	VOLTS			AMPS			RPM	HP	CODE	SF	DES	PF	NEMA NOM. EFF
60	575			267			1785	300	G	1.15	B	88	%
												%	%
PH	3	CL	F	MAX RPM	3600	MAX CORR KVAR			46				
BRG	DE	6318		ODE	6318		ENCL	TEFC	FR	449TC	IP	54	
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	230	C
INV READY	CT	2:1		HZ	30-60	VT	1000:1	HZ	0-60	CHP	1:1.5	HZ	60-90
INV TEMP CL	T2C	C	USABLE AT			N/A							

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET CXT33004T-5 - 300HP, 1785RPM, 3PH, 60HZ, 449TC, A44160M, TEF						
S/O		FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS	
		449		300		P		3/60		1785		575	
AMPS		DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE	
267		CONT		40/F		1.00		B		G		TEFC	
E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)					
---		418143052ZEQ		---		---		.0153					
PERFORMANCE													
LOAD		HP		AMPERES		RPM		% POWER FACTOR			% EFFICIENCY		
NO LOAD		0		77.9		1800		4.36			0		
1/4		75.0		101		1796		59.2			93.8		
2/4		150		148		1792		79.4			96.0		
3/4		225		205		1788		85.4			96.3		
4/4		300		267		1783		87.5			96.2		
5/4		375		332		1779		88.4			95.8		
SPEED TORQUE													
				RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.			AMPERES		
LOCKED ROTOR				0		166		1469			1753		
PULL UP				1200		139		1232			1401		
BREAKDOWN				1723		277		2449			928		
FULL LOAD				1783		100		884			267		
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.													
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 96.2%													
				DRAWN BY: <u>C.E. JAMISON</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>08/22/17</u>				AC MOTOR PERFORMANCE DATA		A44WG5582-R003 DATE ISSUED 12/28/18			

FRAME 449

RPM 1785

S.F. 1.00

ROTOR 4181430S2ZEQ

HP 300

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 267

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

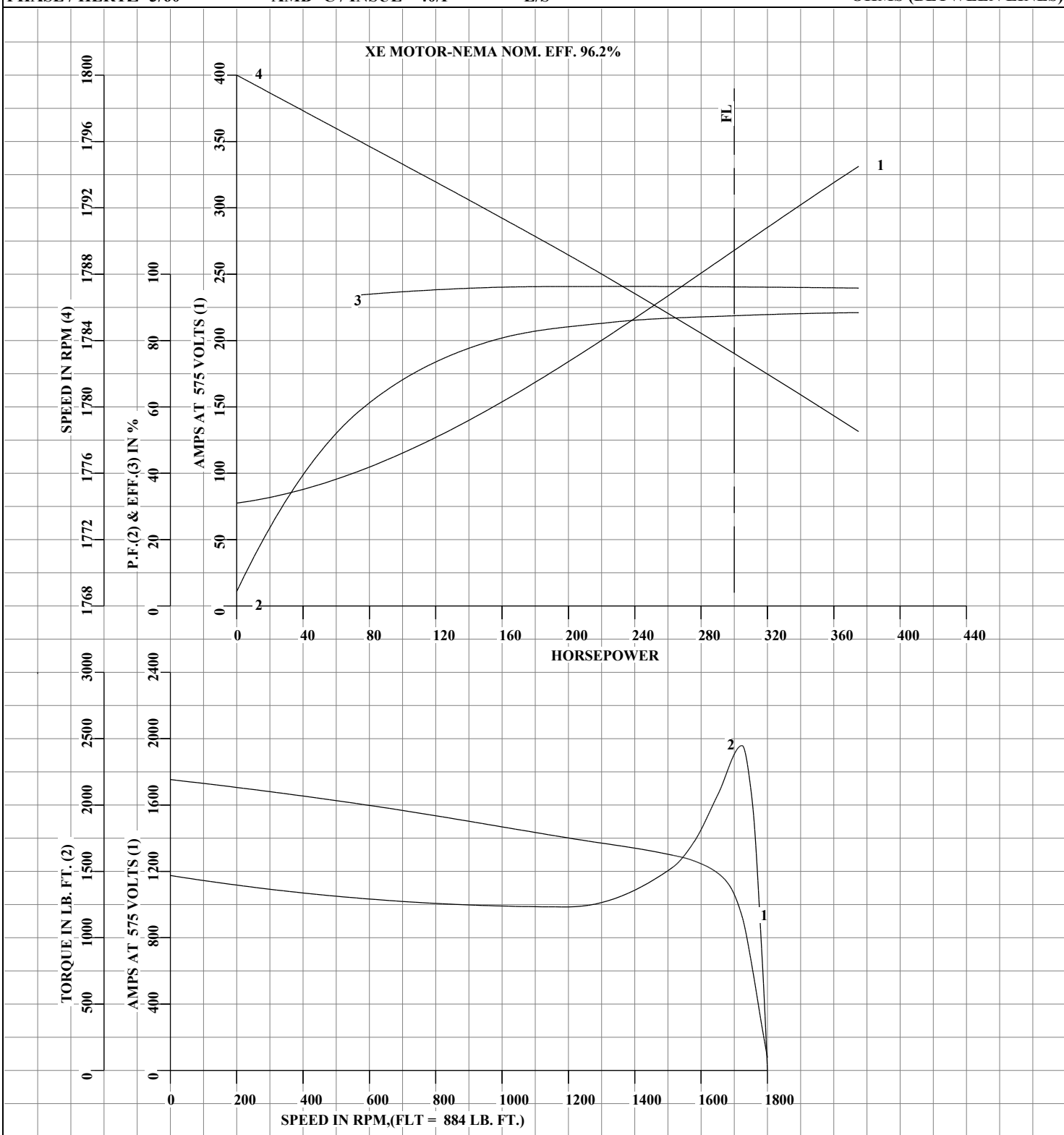
ENCLOSURE TEFC

STATOR RES. @ 25°C .0153

AMB °C / INSUL 40/F

E/S ---

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: C.E. JAMISON
 CHECKED BY: W.L. SMITH
 APPROVED BY: E.J. CHRISTIAN
 DATE: 08/22/17

AC MOTOR
 PERFORMANCE
 DATA

A44WG5582-R003

ISSUE DATE 12/28/18

FRAME 449

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 300

AMPS 267

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

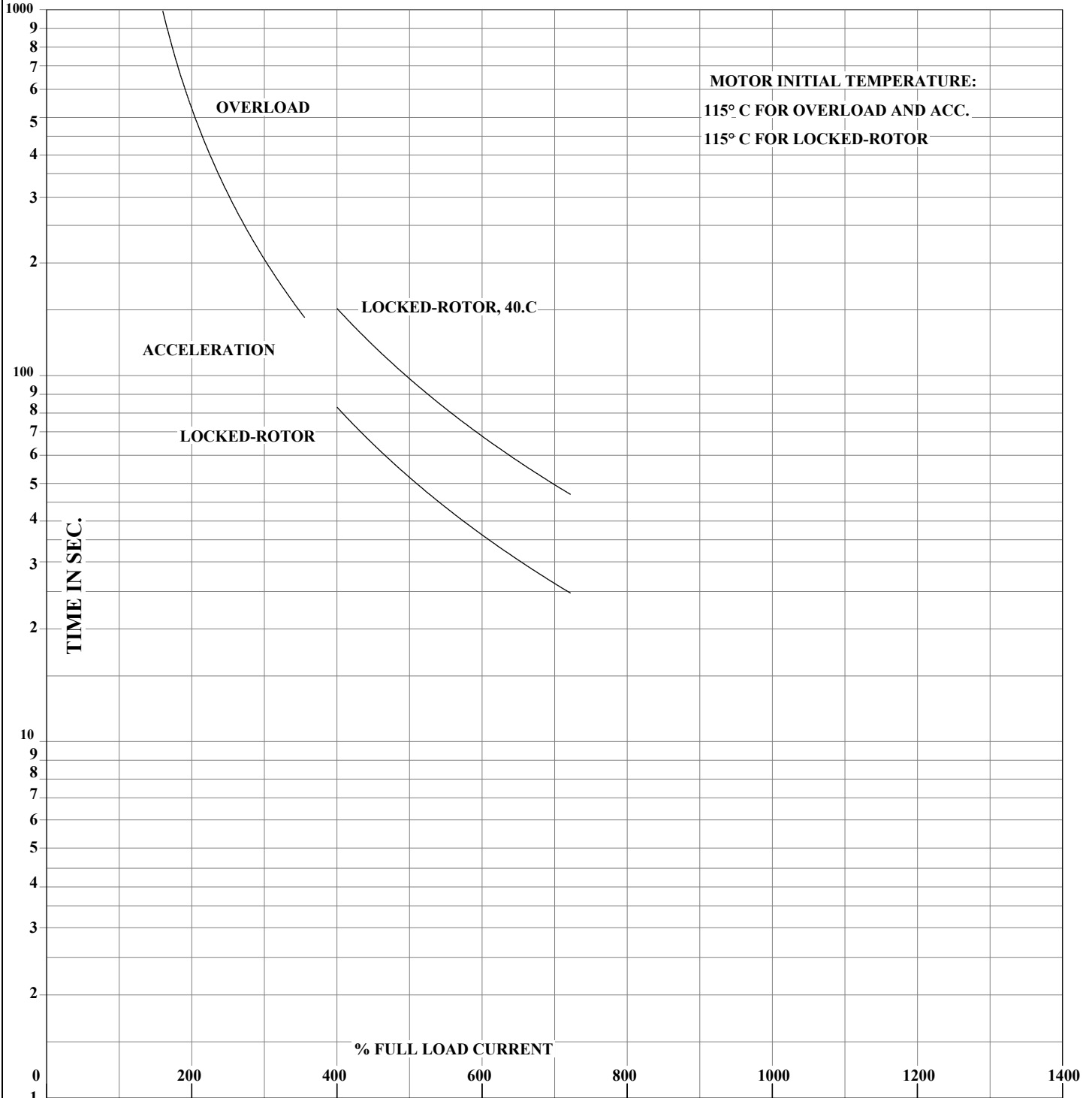
STATOR RES. @ 25°C .0153

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S ---

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

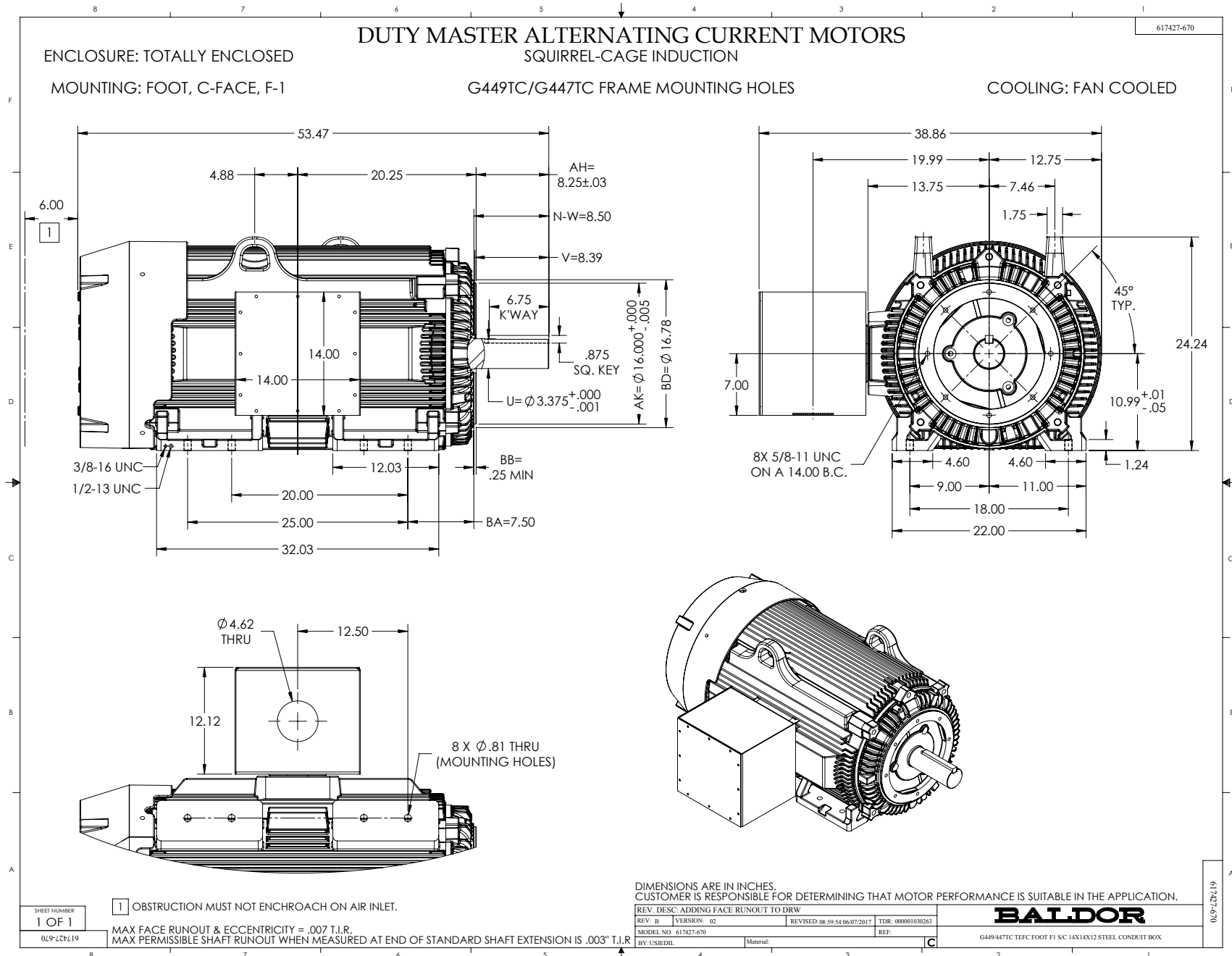


DRAWN BY: C.E. JAMISON
CHECKED BY: W.L. SMITH
APPROVED BY: E.J. CHRISTIAN
DATE: 08/22/17

AC MOTOR
PERFORMANCE
DATA

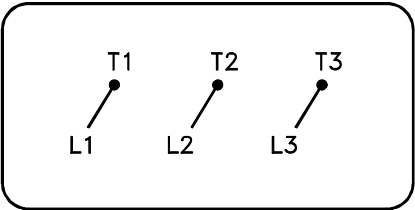
A44WG5582-R003

ISSUE DATE 12/28/18



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