

ABB BALDOR RELIANCE III

Customer information packet

CXT31002TS-5

100HP, 3560RPM, 3PH, 60HZ, 405TSC, A40060M, TE

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	405TSC
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	88.100 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	88.1 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Max Speed	4500 rpm

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A40WG1108
Layout	617429-641
Eff. date	09-29-2026
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	09-17-2021

Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40060M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.20 IN
Power Factor	90
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4152LUA																	
CAT #		CXT31002TS-5				SER				CC		010A					
SPEC		A40-0002-1108				RATING		40C AMB-CONT									
HZ		VOLTS		AMPS		RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF			
60		575		88.1		3560		100	F		1.15	B	90	%	94.1	%	
														%		%	
PH	3	CL	F	MAX RPM		4500	MAX CORR KVAR			10							
BRG		DE	6313		ODE	6313		ENCL	TEFC	FR	405TSC		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		200	C		
INV READY		CT	10:1	HZ	6-60	VT	1000:1	HZ	0-60		CHP	1:1.25	HZ	60-75			
INV TEMP CL		T3	C	USABLE AT		N/A											
SFA 101																	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	405TCZ	100	P	3/60	3560	575		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
88.1	CONT	40/F	1.15	B	F	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
596933	418142005PE	---	---	.0831				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	20.2	3600	8.50	0			
1/4	25.0	29.2	3590	70.7	90.9			
2/4	50.0	46.2	3581	86.3	94.0			
3/4	75.0	66.3	3571	89.6	94.6			
4/4	100	88.1	3560	90.0	94.4			
5/4	125	110	3548	90.2	93.9			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	202	298	543			
PULL UP		1545	181	267	494			
BREAKDOWN		3398	250	369	306			
FULL LOAD		3560	100	148	88.1			
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA NEMA NOM. EFF. 94.1 % GUARANTEED MIN. EFF. 93.0%								
		DR. BY	G. R. WEBB	A-C MOTOR PERFORMANCE A40WG1108-R014 DATA ISSUE DATE 03/09/21				
		CK. BY	R. K. BRIDGES					
		APP. BY	E. J. CHRISTIAN					
		DATE	06/20/14					

REL S.O.

 RPM **3560**

 S.F. **1.15**

 ROTOR **418142005PE**

 FRAME **405TCZ**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **100**

 AMPS **88.1**

 CODE LETTER **F**

TEST DATE ---

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

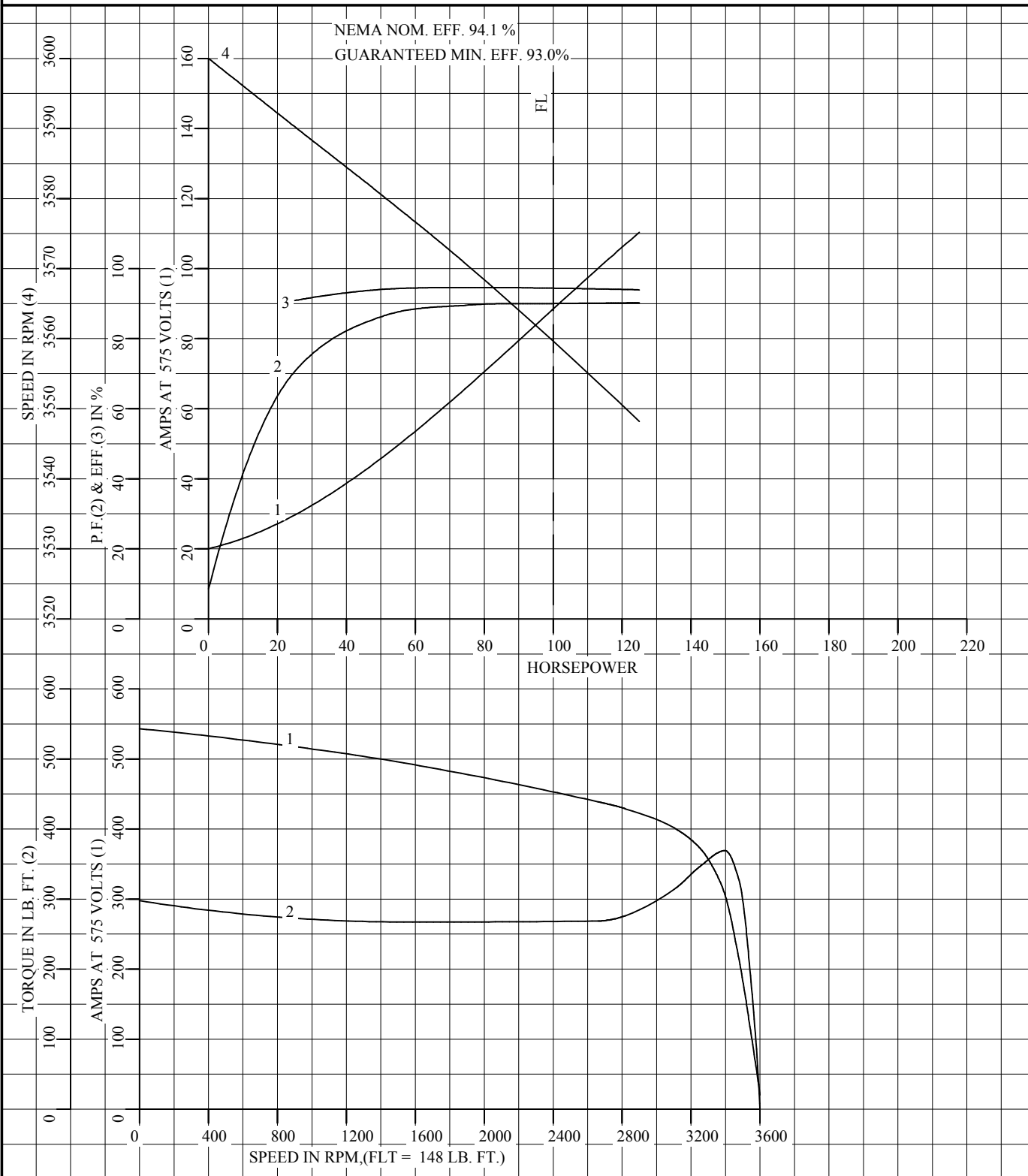
 STATOR RES. @ 25 °C **.0831**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **596933**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 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 G. R. WEBB
CK. BY R. K. BRIDGES
APP. BY E.J. CHRISTIAN
DATE 06/20/14

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG1108-R014

ISSUE DATE 03/09/21

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REL. S.O.

RPM **3560**

S.F. **1.15**

ROTOR **418142005PE**

FRAME **405TCZ**

VOLTS **575**

NEMA DESIGN **B**

TEST S.O. **TYPICAL DATA**

HP **100**

AMPS **88.1**

CODE LETTER **F**

TEST DATE **---**

TYPE **P**

DUTY **CONT**

ENCLOSURE **TEFC**

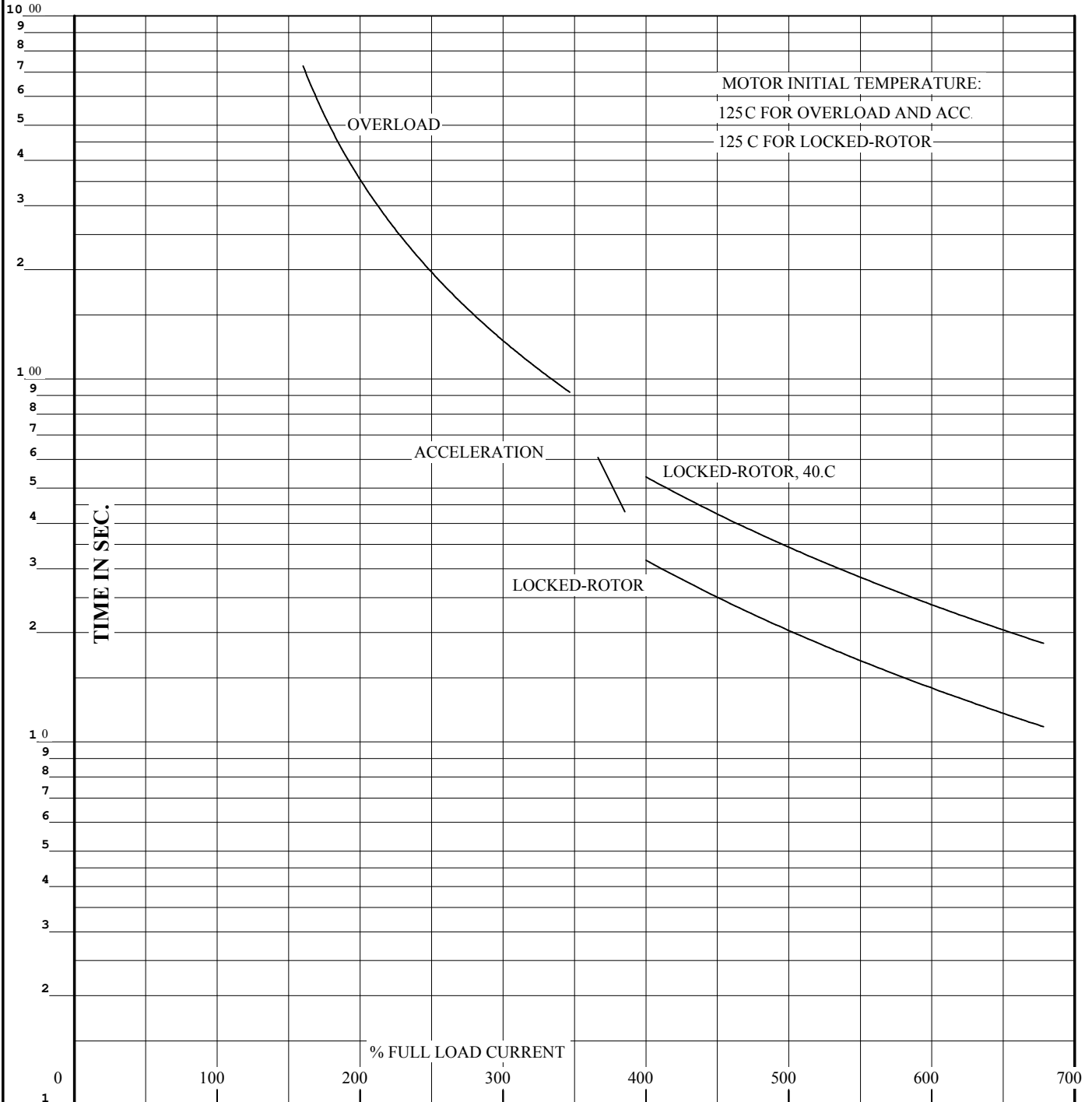
STATOR RES. @ 25 °C **.0831**

PHASE/HERTZ **3/60**

AMB °C/INSUL **40/F**

E/S **596933**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

NEMA NOM. EFF. 94.1 %

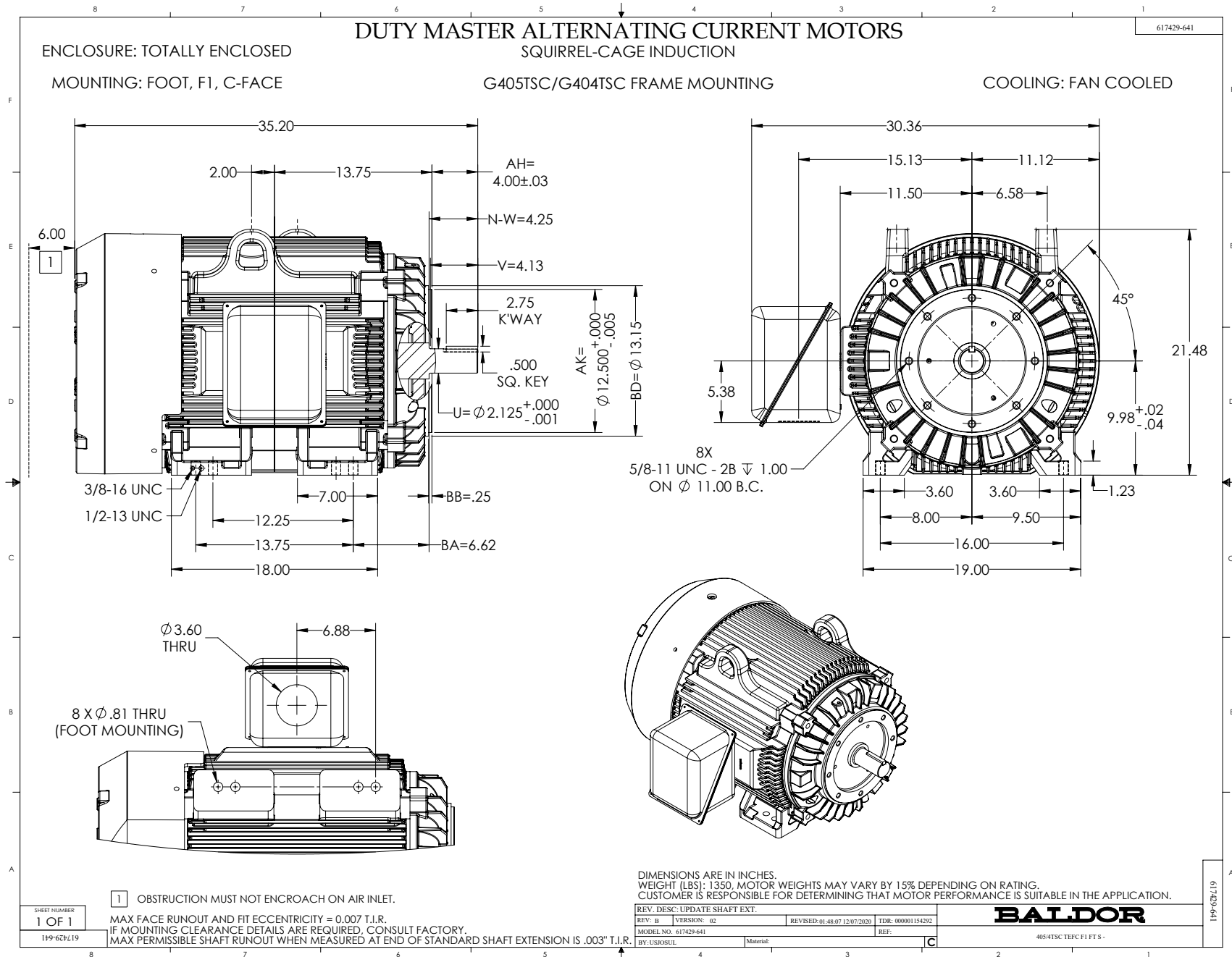
GUARANTEED MIN. EFF. 93.0%

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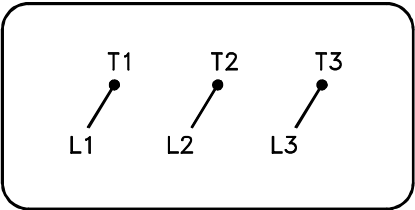
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**A-C MOTOR
PERFORMANCE
CURVES**
A40WG1108-R014

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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