

ABB BALDOR RELIANCE III

Customer information packet

ECP84313T-4

75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	365TS
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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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	80.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0179
Layout	617428-510
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	11-27-2018

Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
No Load Current	15.6 a
Number of Poles	2
Overall Length	31.35 IN
Power Factor	92
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388																	
CAT #	ECP84313T-4						FR	365TS			IP56						
SPEC	A36-6000-0179						ENCL		TEFC		DES	B					
HZ	60	PH	3	CL	F	HP	75	SF	1.15	PF	92	%	CODE	F			
VOLTS	460					AMPS		80.7									
RPM	3555		MAX RPM			4500	SER										
NEMA NOM. EFF	94.5	%	RATING			40C AMB-CONT											
GUAR MIN. EFF	93.6	%	BRG DE			6313			BRG ODE		6313						
CL I DIV 2 GRPS A,B,C,D						CL I ZONE 2 GRPS				IIA,IIB,IIC			TEMP T		3-200	C	
CT HZ	15-60		VT HZ			0-60											
CHP HZ	60-75		INV TEMP CL					200	C								
								MTR WT		970	LBS						

NP4333									
CAT #	ECP84313T-4		ROTOR BARS	38					
SPEC	A36-6000-0179		STATOR SLOTS	48					
SER			MAX CORR KVAR	5					
GREASE	POLYREX EM								
ABMA DE BRG	65BC03J30X	ODE	65BC03J30X						
SPACE HEATER LEADS H1-H2:	TIE LIKE NUMBERS			TOGETHER					
MAX. SPACE HEATER TEMP.		C	V		A		W		

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					ECP84313T-4 - 75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC						
FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS			
365TS		75		P		3/60		3555		460			
AMPS		DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE	
80.7		CONT		40/F		1.15		B		F		TEFC	
E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)					
892018		418141005TE		---		---		.0744					
PERFORMANCE													
LOAD		HP		AMPERES		RPM		% POWER FACTOR		% EFFICIENCY			
NO LOAD		0		15.9		3600		8.69		0			
1/4		18.8		24.5		3589		77.9		92.0			
2/4		37.5		40.2		3578		92.2		94.8			
3/4		56.2		58.6		3567		94.3		95.3			
4/4		75.0		78.9		3555		93.6		95.1			
5/4		93.8		101		3542		92.2		94.6			
SPEED TORQUE													
				RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.		AMPERES			
LOCKED ROTOR				0		218		242		494			
PULL UP				1565		190		210		440			
BREAKDOWN				3395		230		255		259			
FULL LOAD				3555		100		111		78.9			
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.													
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 95.0 %													
				DRAWN BY: <u>G. R. WEBB</u> CHECKED BY: <u>C. E. JAMISON</u> APPROVED BY: <u>C. E. JAMISON</u> DATE: <u>12/09/15</u>				AC MOTOR PERFORMANCE DATA		A36WG0179-R007 DATE ISSUED 12/18/15			

FRAME 365TS

RPM 3555

S.F. 1.15

ROTOR 418141005TE

HP 75

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 80.7

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

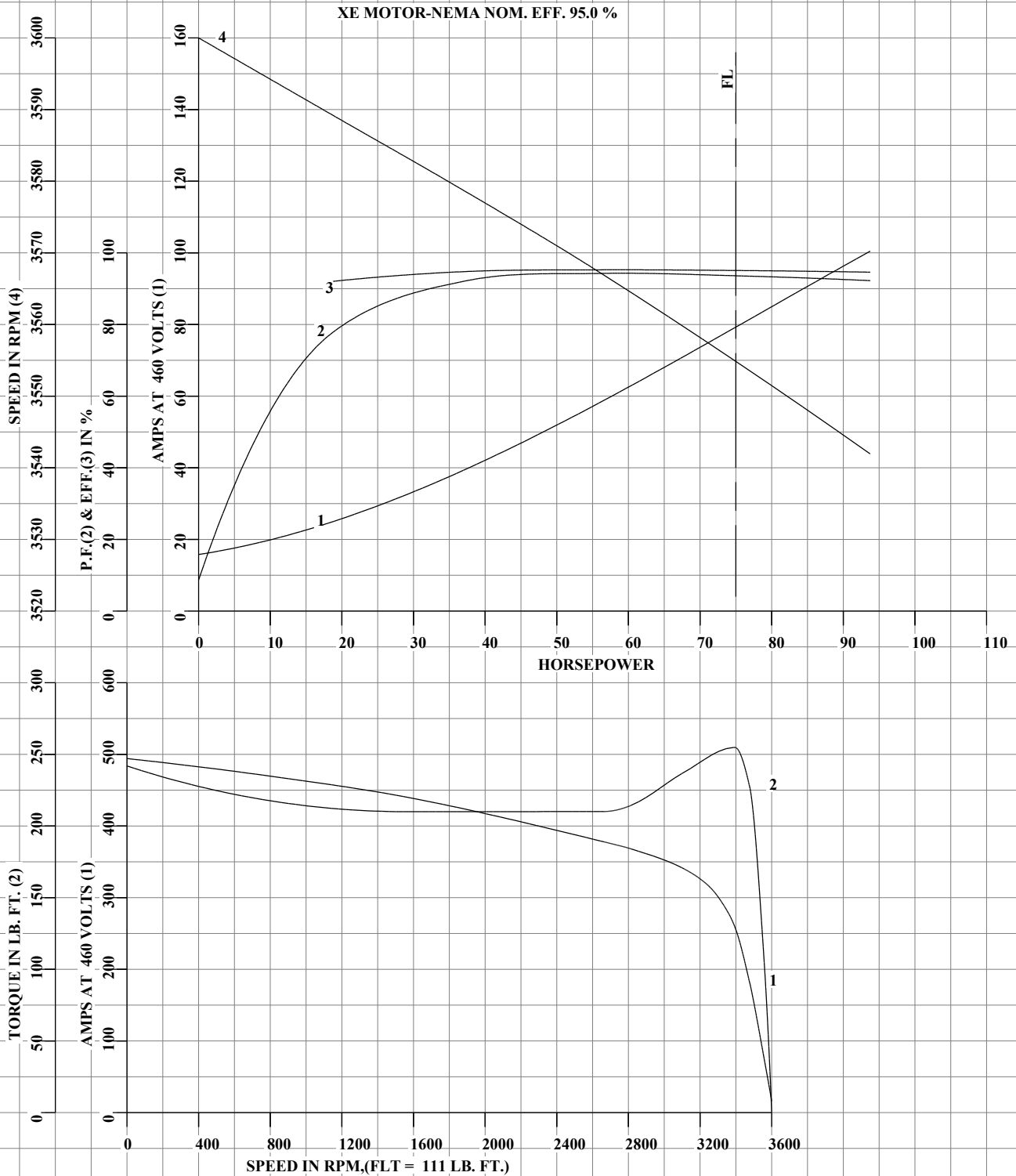
ENCLOSURE TEFC

STATOR RES. @ 25°C .0744

AMB °C / INSUL 40/F

E/S 892018

OHMS (BETWEEN LINES)



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DUTY CONT

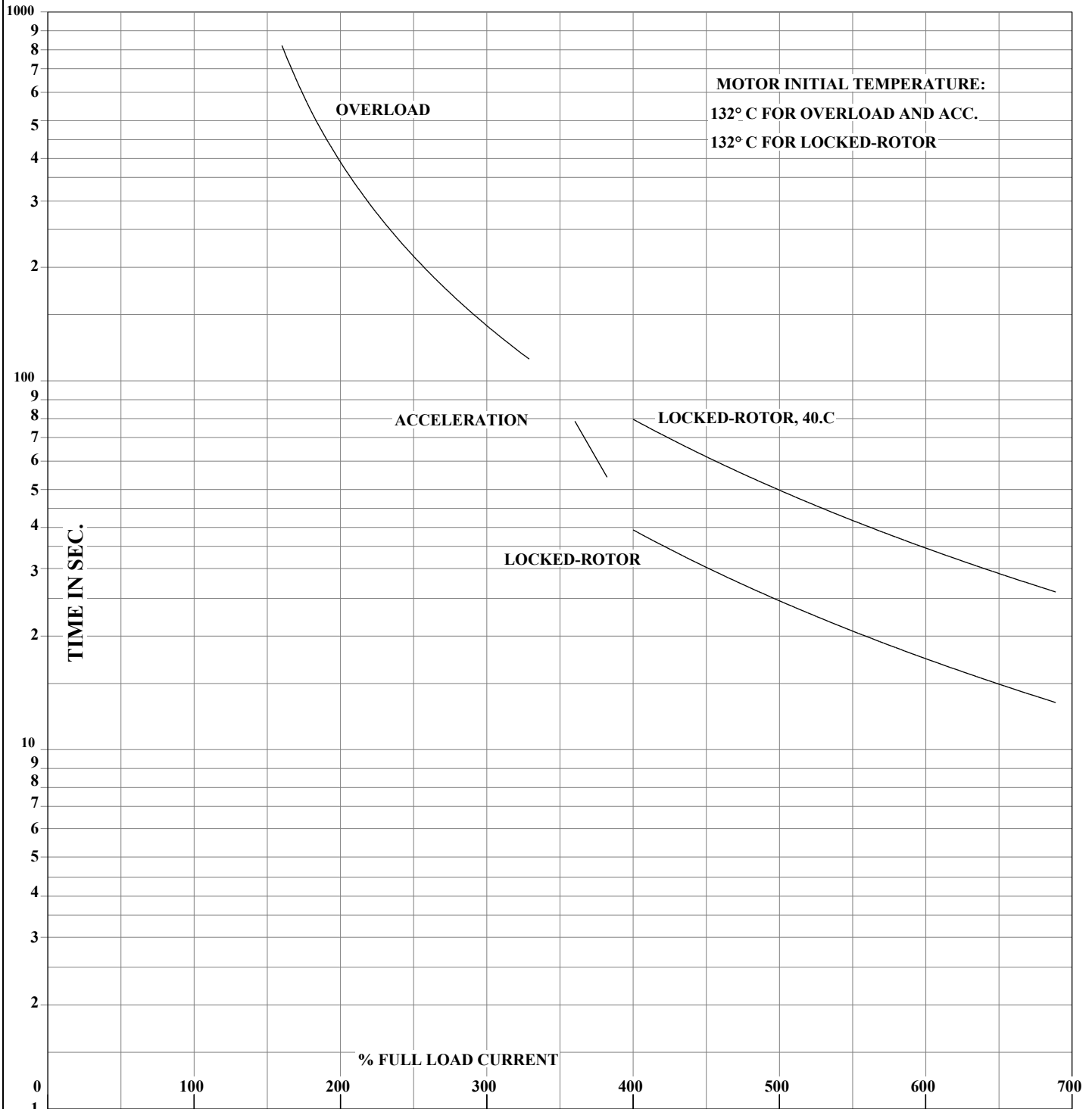
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E/S 892018

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 95.0 %

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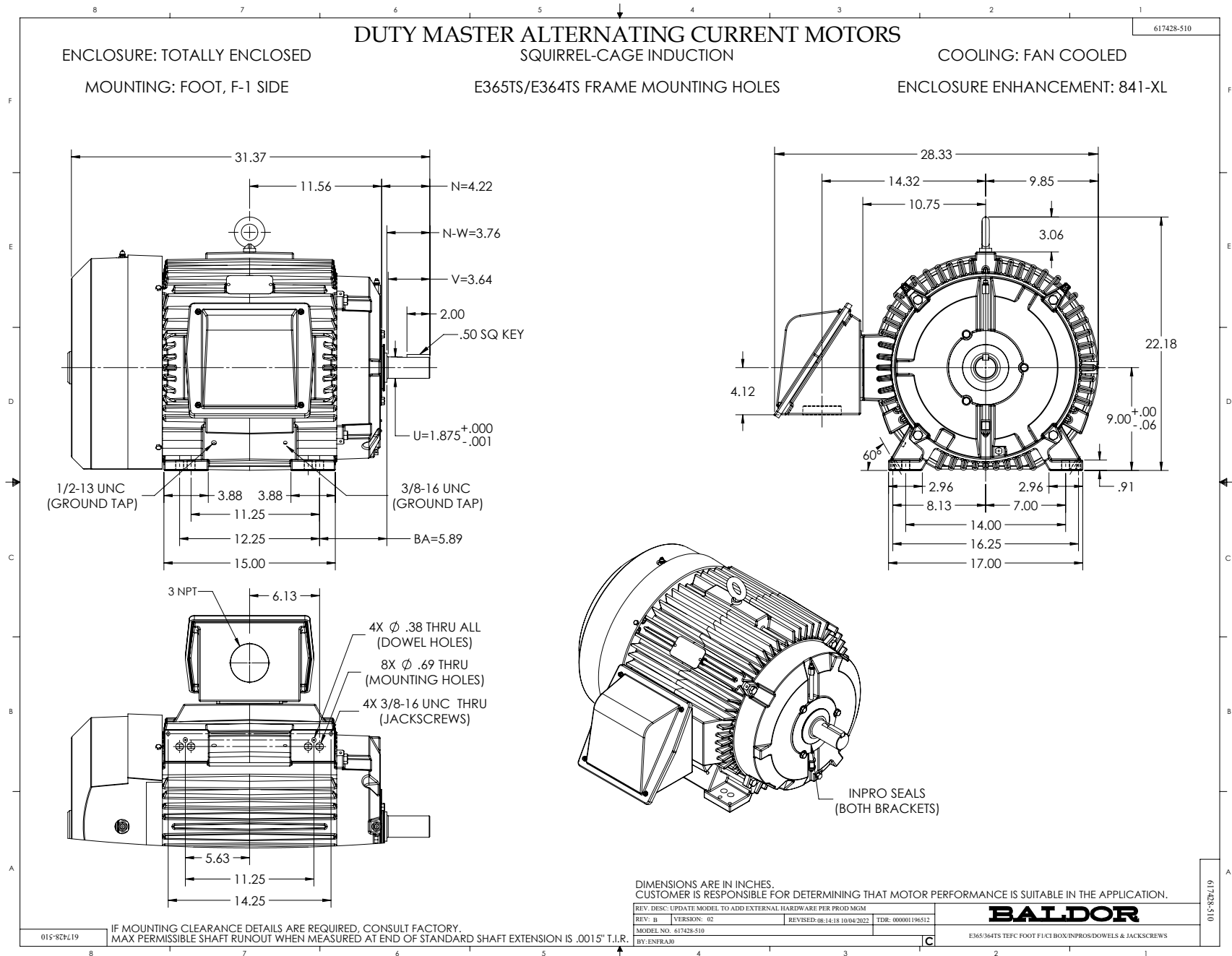


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AC MOTOR
PERFORMANCE
DATA

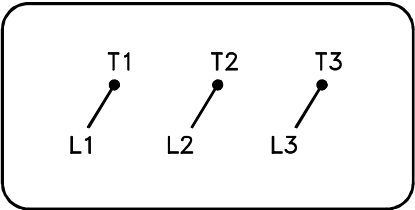
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ISSUE DATE 12/18/15



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