

ABB BALDOR RELIANCE III

Customer information packet

ECP4313T-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
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	80.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F

Part Detail

Revision	Y
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0179
Layout	617428-036
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	10-19-2010

Lifting Lugs	No Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.37 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
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
NP4033LUA

CAT #		ECP4313T-4					SER				CC		010A					
SPEC		P36G398					RATING		40C AMB-CONT									
HZ		VOLTS			AMPS			RPM		HP	CODE	-	SF	DES	PF	NEMA NOM. EFF		
60		460			80.7			3555		75	F		1.15	B	92	%	94.5	%
															%		%	
PH	3	CL	F	MAX RPM		4500	MAX CORR KVAR			5								
BRG		DE	6313		ODE	6313		ENCL	TEFC	FR	365TS		IP	55				
GREASE		POLYREX EM								MTR WT		959		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	60-75		HZ	1.25:1	
INV TEMP CL		200	C	USABLE AT		50HZ 60HP 380V 78A								SF1.0				

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP4313T-4 - 75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC						
S/O			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 418141005FE

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

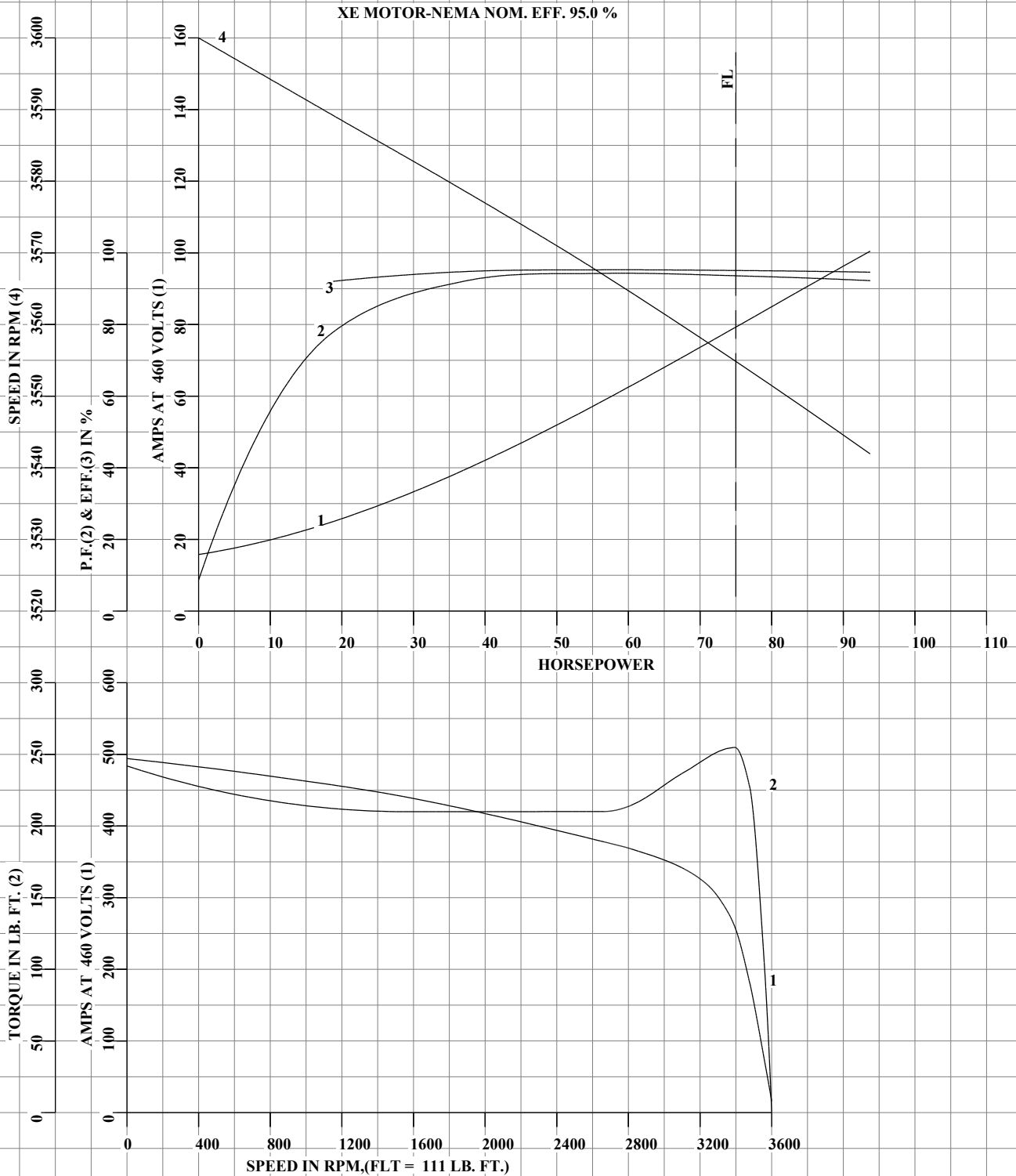
ENCLOSURE TEFC

STATOR RES. @ 25°C .0744

AMB °C / INSUL 40/F

E/S 892018

OHMS (BETWEEN LINES)



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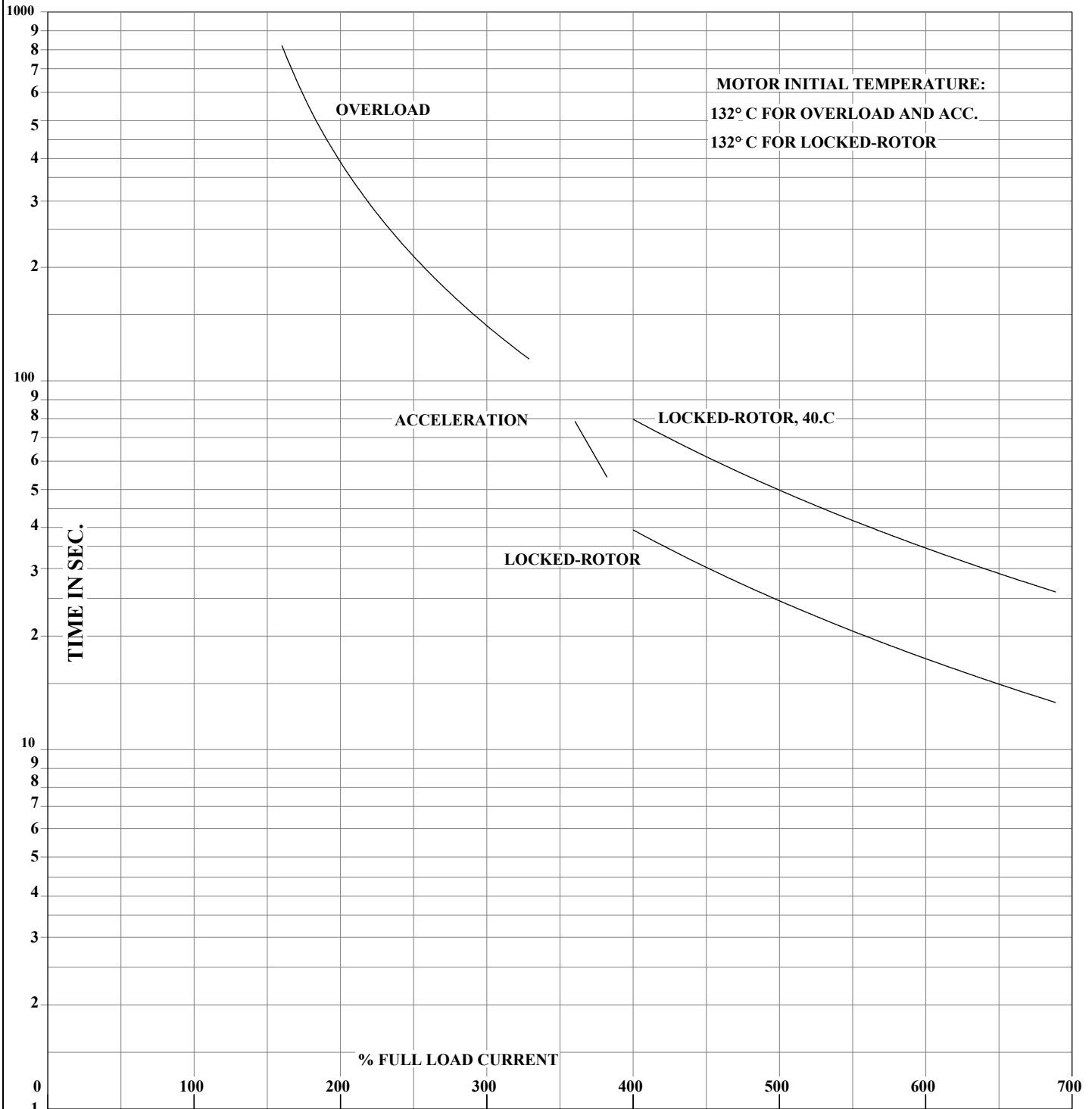
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THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 95.0 %

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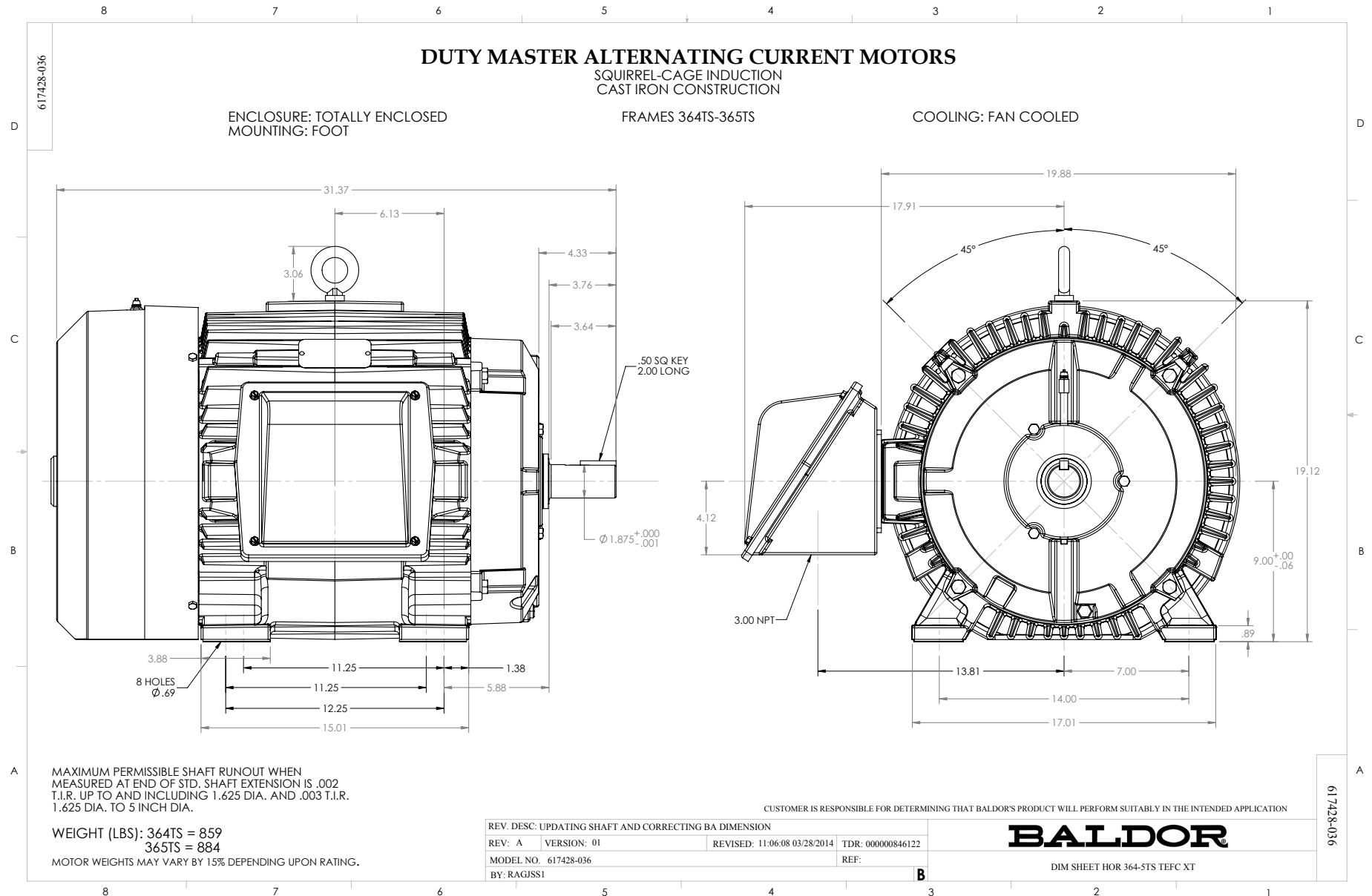


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AC MOTOR
PERFORMANCE
DATA

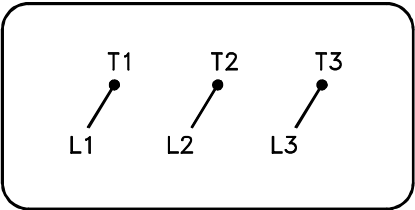
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ISSUE DATE 12/18/15



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