

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			

ECP4313T-4 - 75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION FRAME	PACKET 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>		AC MOTOR		A36WG0179-R007
		CHECKED BY: <u>C. E. JAMISON</u>		PERFORMANCE		
		APPROVED BY: <u>C. E. JAMISON</u>		DATA		
		DATE: <u>12/09/15</u>				

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

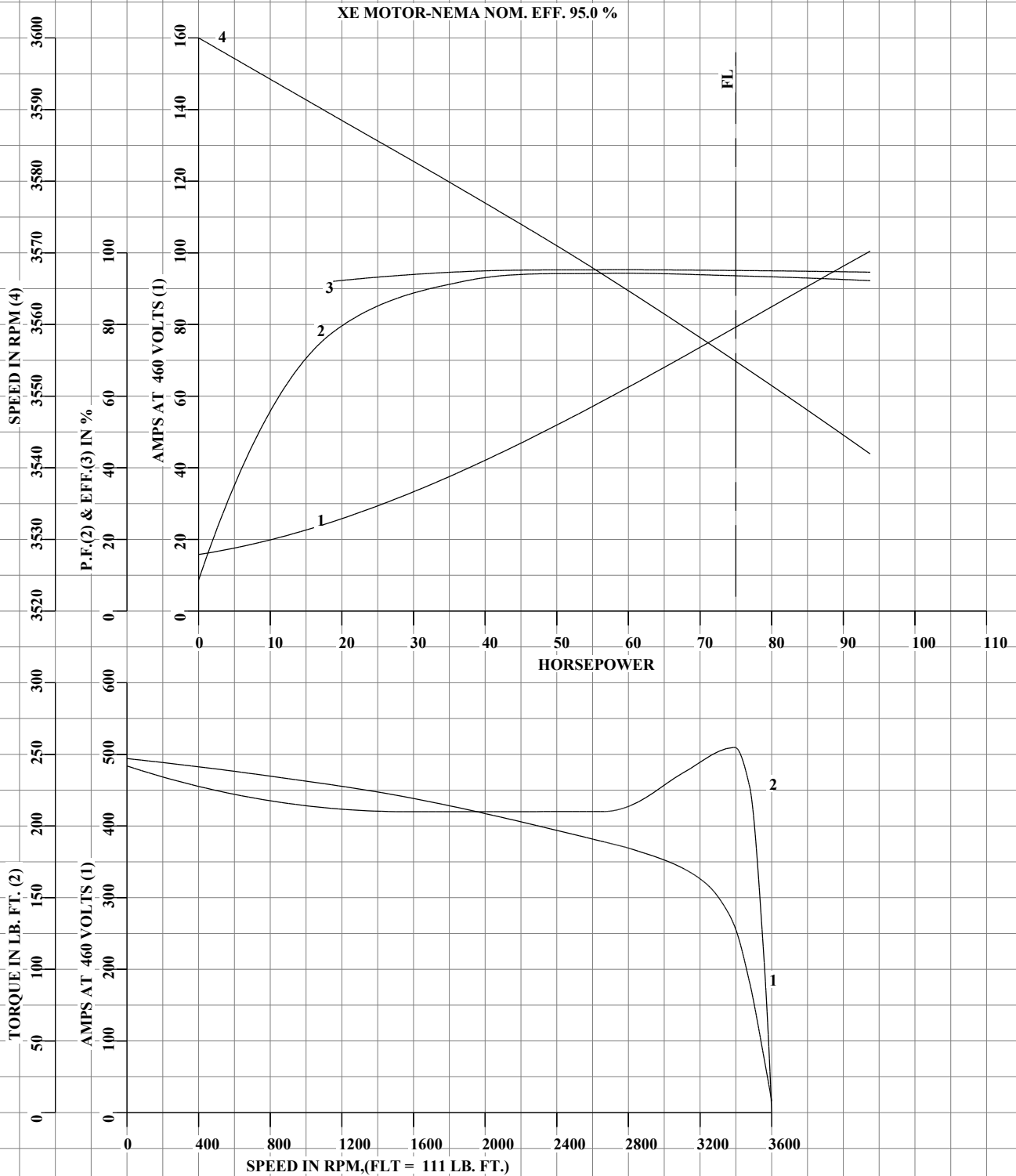
ENCLOSURE TEFC

STATOR RES. @ 25°C .0744

AMB °C / INSUL 40/F

E/S 892018

OHMS (BETWEEN LINES)



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

A36WG0179-R007

ISSUE DATE 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

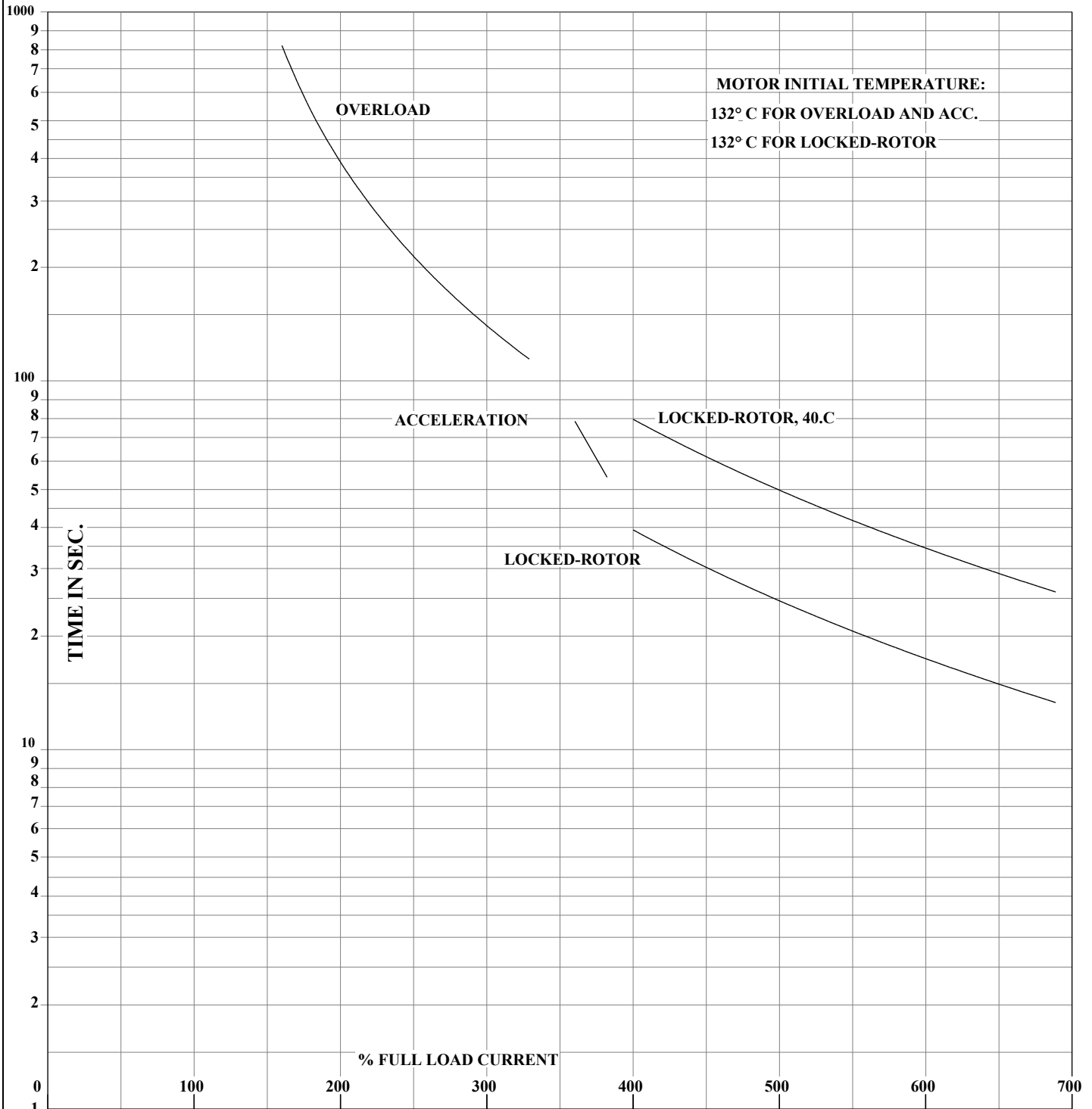
ENCLOSURE TEFC

STATOR RES. @ 25°C .0744

AMB °C / INSUL 40/F

E/S 892018

OHMS (BETWEEN LINES)



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

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

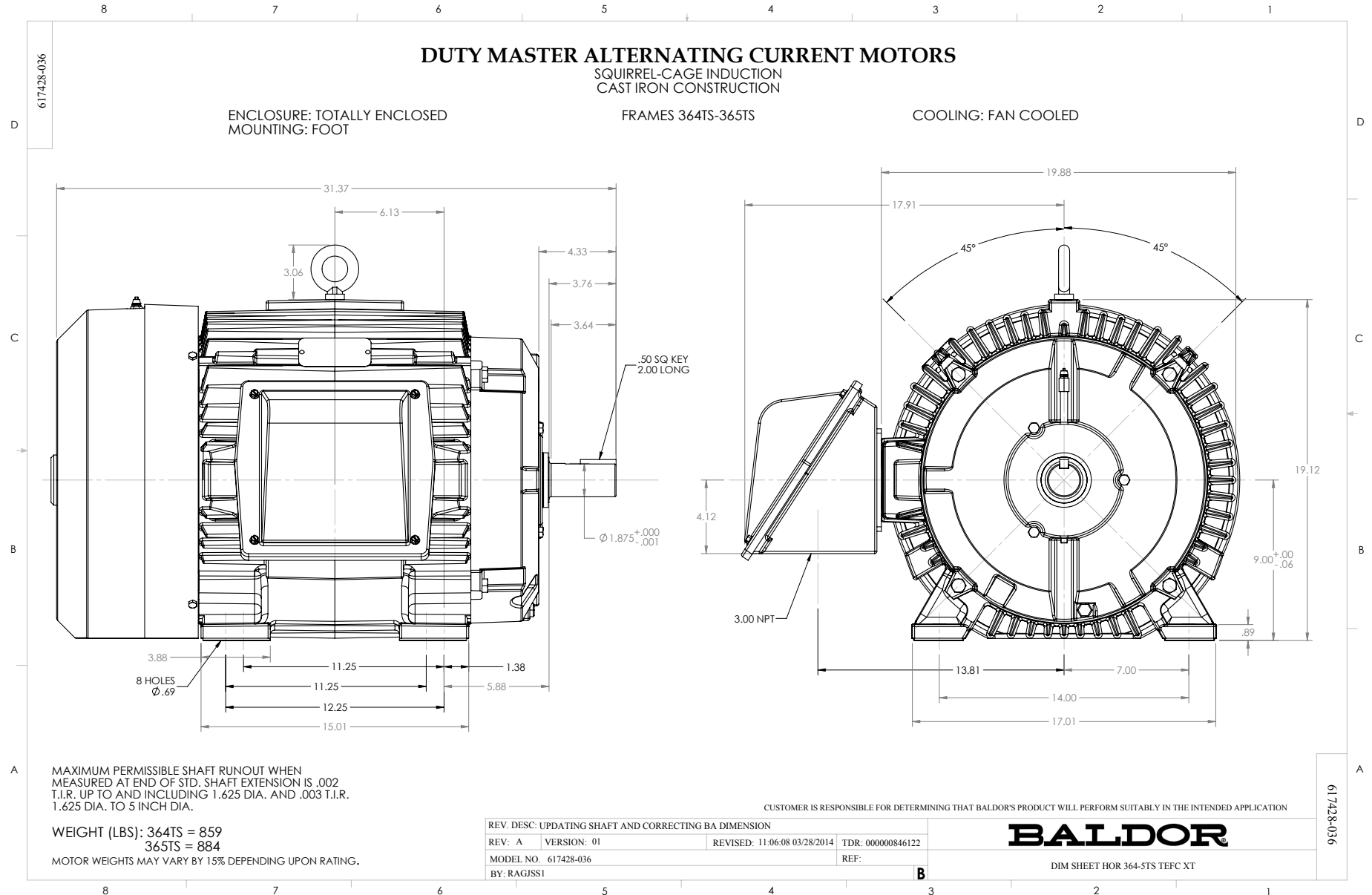


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AC MOTOR
PERFORMANCE
DATA

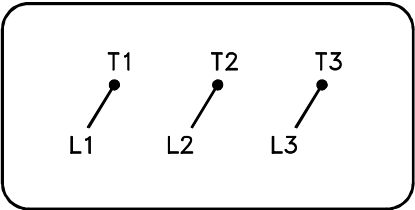
A36WG0179-R007

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