

ABB BALDOR RELIANCE III

Customer information packet

ECP4310T-4

60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	364TS
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	60.000 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	6-60
Current @ Voltage	65.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	65.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	AC
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0130
Layout	617428-036
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	10-19-2010

KVA Code	F
Lifting Lugs	No Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.37 IN
Power Factor	90
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	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP4033LUA

CAT #		ECP4310T-4					SER				CC		010A						
SPEC		P36G397					RATING		40C AMB-CONT										
HZ		VOLTS			AMPS			RPM		HP	CODE	-	SF	DES	PF	NEMA NOM. EFF			
60		460			65.1			3560		60	F		1.15	B	90	%	95	%	
																%		%	
PH	3	CL	F	MAX RPM		4500		MAX CORR KVAR			5								
BRG		DE	6313		ODE	6313		ENCL	TEFC		FR	364TS		IP	55				
GREASE		POLYREX EM								MTR WT		883		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	0.7-60		HZ	1000:1		VT	0-60		HZ	1000:1		CHP	60-75		HZ	1.25:1	
INV TEMP CL		200	C	USABLE AT		50HZ 50HP 380V 66A										SF1.0			

Parts List

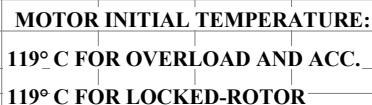
Part number	Description	Quantity
SA209411	SA P36G397	1.000 ea
RA196672	RA P36G397	1.000 ea
NP4033LUA	SS SUPER-E SD XEX, CLI DIV2, CURUS-EEV,	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
078559034A	+F/C A 078559001A - 360	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
415045002E	SLGR	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
412118006A	DRAIN	1.000 ea
702674001C	FAN 360	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415045002E	SLGR	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
412118006A	DRAIN	1.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea

067053000B	GASK 320-400	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034180016GA	KEY 1/2X1/2X2 L	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
421948051	LABEL, MYLAR	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
034530032BB	P/NIP 1/4X4" SCHED 40	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
034530020BB	P/NIP 1/4X2-1/2 PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

Accessories

Part number	Description	Multiplier
K36G2	C-FACE KIT	A8

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP4310T-4 - 60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			364			60			P			3/60			3560			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
65.1			CONT			40/F			1.15			B			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
491282			418141005XE			---			---			.101								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			14.1			3600			6.54			0					
1/4			15.0			20.8			3590			72.8			93.1					
2/4			30.0			33.4			3580			88.2			95.3					
3/4			45.0			48.6			3570			90.7			95.5					
4/4			60.0			65.1			3559			90.7			95.1					
5/4			75.0			82.2			3547			90.3			94.5					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			203			180			435					
PULL UP						1565			176			156			355					
BREAKDOWN						3397			233			206			212					
FULL LOAD						3559			100			88.5			65.1					
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 % GUARANTEED MIN. EFF. 94.1%																				
						DRAWN BY: <u>G. R. WEBB</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>E.J.CHRISTIAN</u> DATE: <u>07/31/02</u>						AC MOTOR PERFORMANCE DATA			A36WG0130-R006 DATE ISSUED 05/13/21					



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.

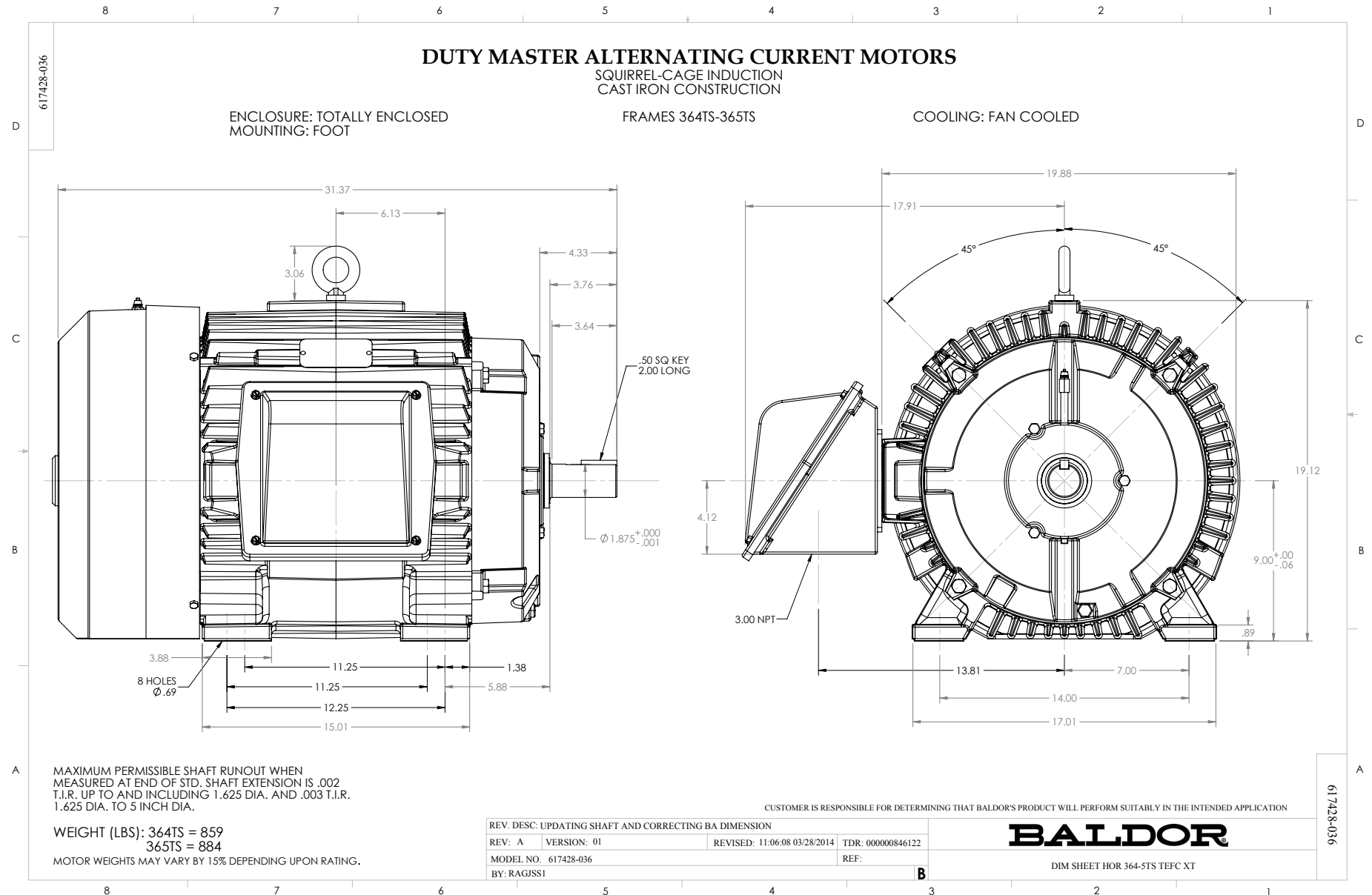


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AC MOTOR PERFORMANCE DATA

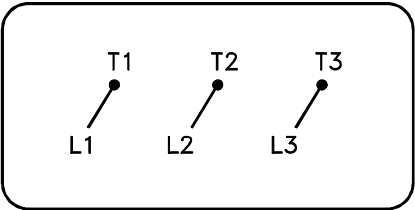
A36WG0130-R006

ISSUE DATE 05/13/21



416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

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

416820-036