

ABB BALDOR RELIANCE III

Customer information packet

ECP4413T-4

150HP, 3570RPM, 3PH, 60HZ, 445TS, A4478M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TS
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
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	164.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	164.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA

Part Detail

Revision	AA
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3535
Layout	617427-493
Eff. date	02-16-2026
CD Diagram	416820-036
Poles	02
Leads	3#2 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Type	A4478M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	40.83 IN
Power Factor	90
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238																	
CAT NO	ECP4413T-4				SPEC NO.		P44G3944										
HP	150	AMPS		164		VOLTS		460		DESIGN		B					
FRAME	445TS	RPM		3570		HZ		60	AMB		40	SF		1.15			
D.E. BRG.DATA	6313			O.D.E. BRG.DATA				6313		PH		3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	65BC03J30X				TYPE		P	ENCL		TEFC	CODE		G				
O.D.E. BRG.	65BC03J30X				POWER FACTOR				90		NEMA NOM EFFICIENCY				95		
3/4 LOAD EFF.	95.7		MAX CORR KVAR				20.0		GUARANTEED EFFICIENCY				94.1				
TEMP CODE	T3		TEMP =		200												
CHP HZ	60-75		CT HZ		10-60		VT HZ		0-60								
INVERTER-TEMP-CODE	T3																
SER.NO.					MOTOR WEIGHT												

Parts List

Part number	Description	Quantity
SA249714	SA P44G3944	1.000 ea
RA236574	RA P44G3944	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
089490097A	BRKT 089490102WCA	1.000 ea
415072001B	CLAMP	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530056AB	1/8 X 7 PP NIPPLE	1.000 ea
078546004C	FAN 440 702675001D	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018022CK	HHCS 3/8-16X2-3/4 PLTD	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
410700004F	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 ea
415045002E	SLGR	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
034530056BB	P/NIP 1/4X7 SCHED 40	1.000 ea
702623012A	THERMAL BARRIER, G28	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
415915007K	GASK, 26" LAC	1.000 ea

089490097A	BRKT 089490102WCA	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018022CK	HHCS 3/8-16X2-3/4 PLTD	3.000 ea
415045002E	SLGR	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
076863000C	+CBCST BLKT - 440	1.000 ea
076864000A	*MFC MOVE* CBCST BLKT - 440	1.000 ea
406056007A	GASKET, 440	1.000 ea
067053001C	GASK 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	8.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180024HA	KEY 5/8X5/8X3 L	1.000 ea
PK5004A09	BASE 48 X 39-1/4 WITH STACKED 2X4 RUUNER	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
412118006A	DRAIN	2.000 ea

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							ECP4413T-4 - 150HP, 3570RPM, 3PH, 60HZ, 445TS, A4478M, TEFC						
			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			445			150			P			3/60			3570			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
164			CONT			40/F			1.15			B			G			TEFC		
E/S		ROTOR		TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)										
0		0		---			---			.0292										
PERFORMANCE																				
LOAD		HP		AMPERES			RPM			% POWER FACTOR				% EFFICIENCY						
NO LOAD		0		34.7			3600			6.89				0						
1/4		37.5		59.2			3593			63.9				92.9						
2/4		75.1		90.3			3585			81.7				95.3						
3/4		113		125			3578			87.8				95.7						
4/4		150		164			3570			89.9				95.6						
5/4		187		204			3562			90.4				95.2						
SPEED TORQUE																				
				RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.				AMPERES						
LOCKED ROTOR				0			138			304				1081						
PULL UP				1350			110			242				997						
BREAKDOWN				3461			280			618				552						
FULL LOAD				3570			100			221				164						
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.																				
				DRAWN BY: <u>CD</u> CHECKED BY: <u>CD</u> APPROVED BY: <u>R. MCELVEEN</u> DATE: <u>1/18/11</u>						AC MOTOR PERFORMANCE DATA				A44WG3535-R001 DATE ISSUED 03/04/20						

FRAME 445

RPM 3570

S.F. 1.15

ROTOR 0

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. CALCULATED DATA

TYPE P

AMPS 164

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

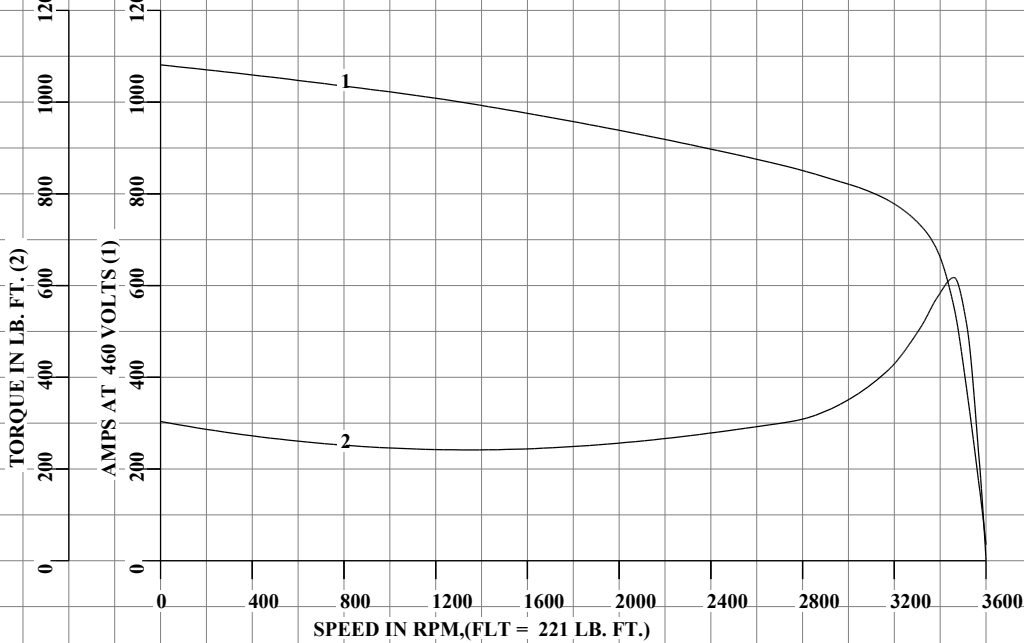
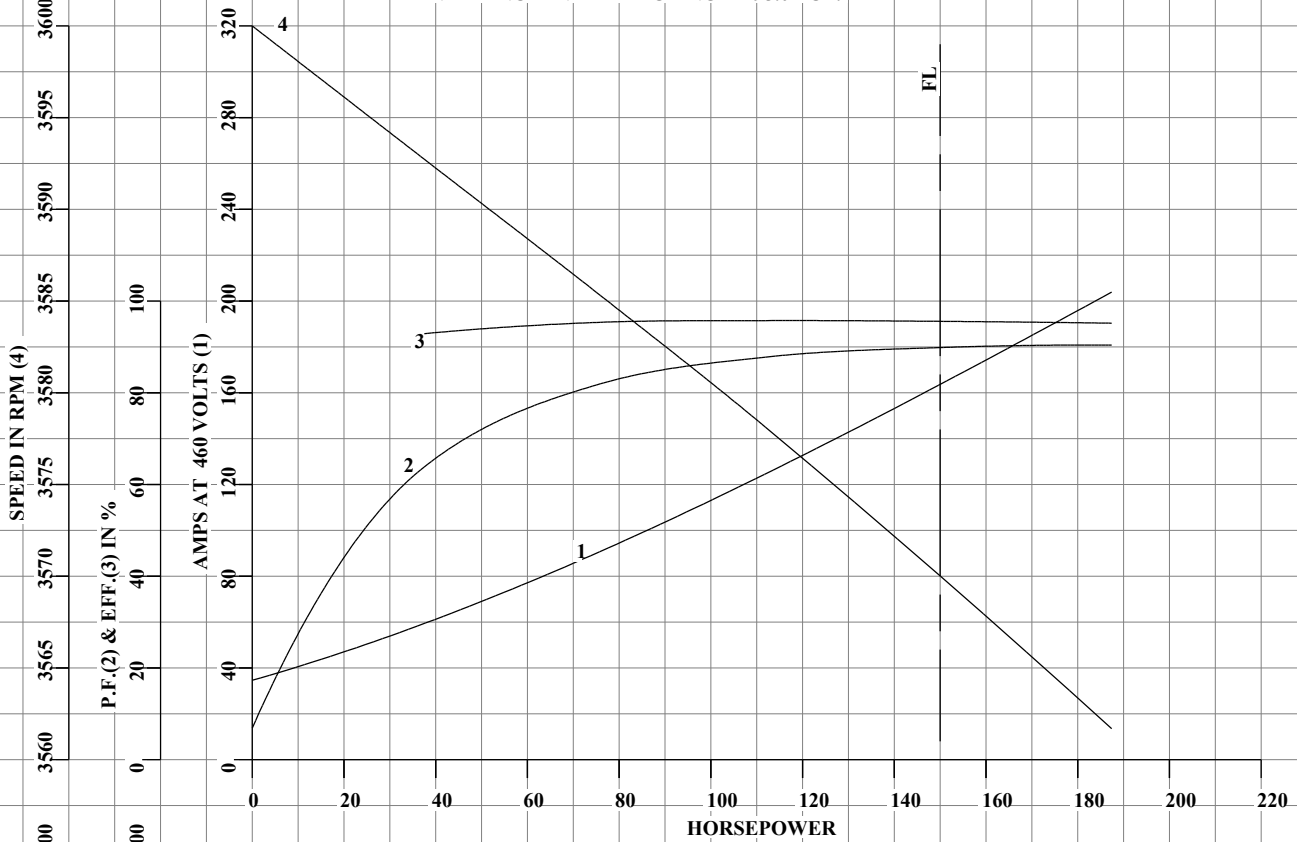
STATOR RES. @ 25°C .0292

AMB °C / INSUL 40/F

E/S 0

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.0 PCT.



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

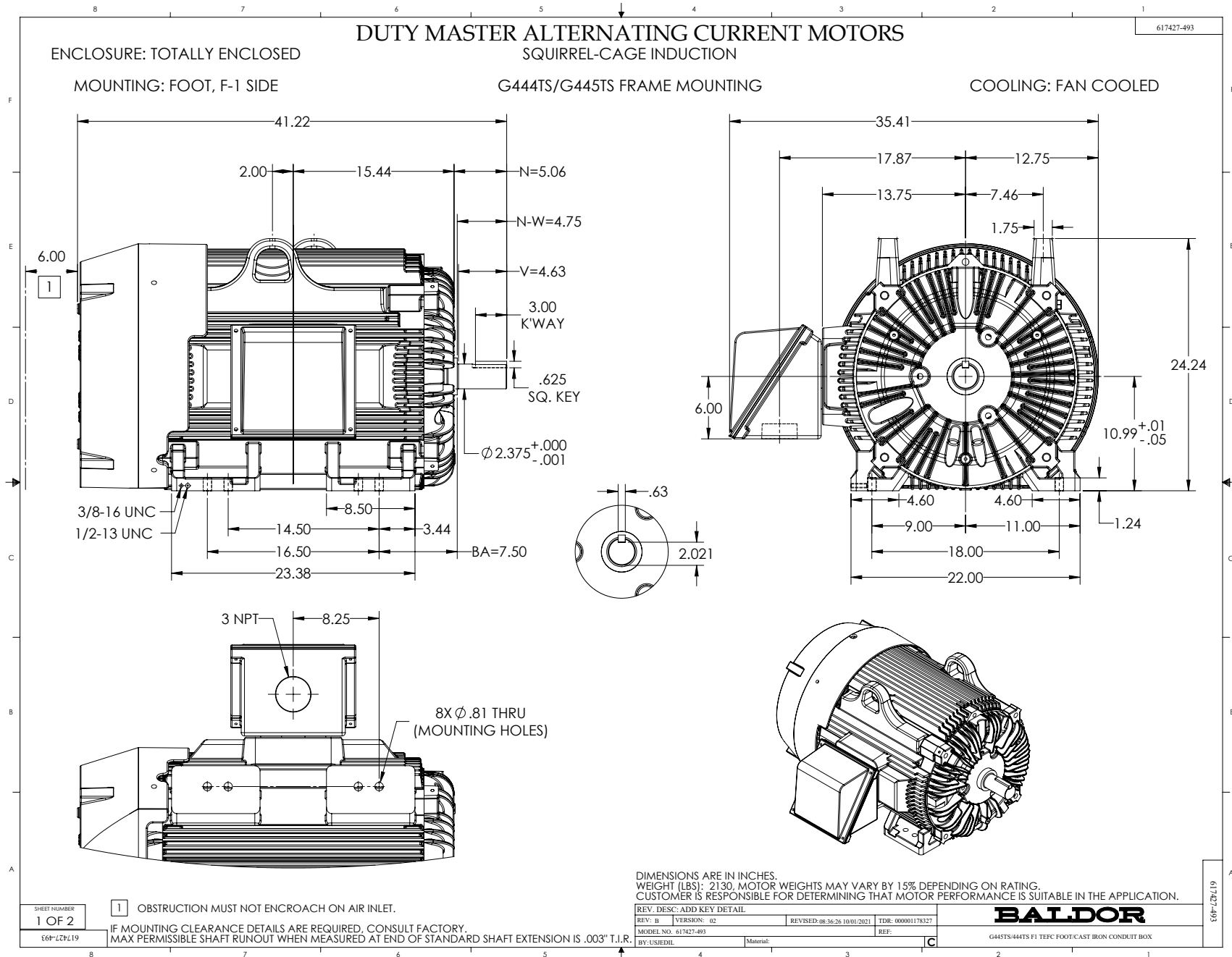


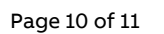
DRAWN BY: CD
CHECKED BY: CD
APPROVED BY: R. MCELVEEN
DATE: 1/18/11

AC MOTOR
PERFORMANCE
DATA

A44WG3535-R001

ISSUE DATE 03/04/2014





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