

ABB BALDOR RELIANCE III

Customer information packet

ECP4410TR-4

125HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	444T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	10-60
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	144.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3870
Layout	617427-001
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	12-06-2013

Motor Type	A44076M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	85
Product Family	General Industrial
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBILITH SHC 220	

NP3238

CAT NO	ECP4410TR-4			SPEC NO.		A44-5210-3870							
HP	125	AMPS	144	VOLTS		460		DESIGN	B				
FRAME	444T	RPM	1785	HZ	60	AMB	40	SF	1.15				
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA			6318		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X			TYPE	P	ENCL	TEFC	CODE	G				
O.D.E. BRG.	90BC03J30X			POWER FACTOR			85		NEMA NOM EFFICIENCY			95.4	
3/4 LOAD EFF.	95.8		MAX CORR KVAR			27.0		GUARANTEED EFFICIENCY			94.5		
TEMP CODE	T3		TEMP =		200								
CHP HZ	60-90		CT HZ	10-60		VT HZ	0-60						
INVERTER-TEMP-CODE	T3												
SER.NO.					MOTOR WEIGHT								

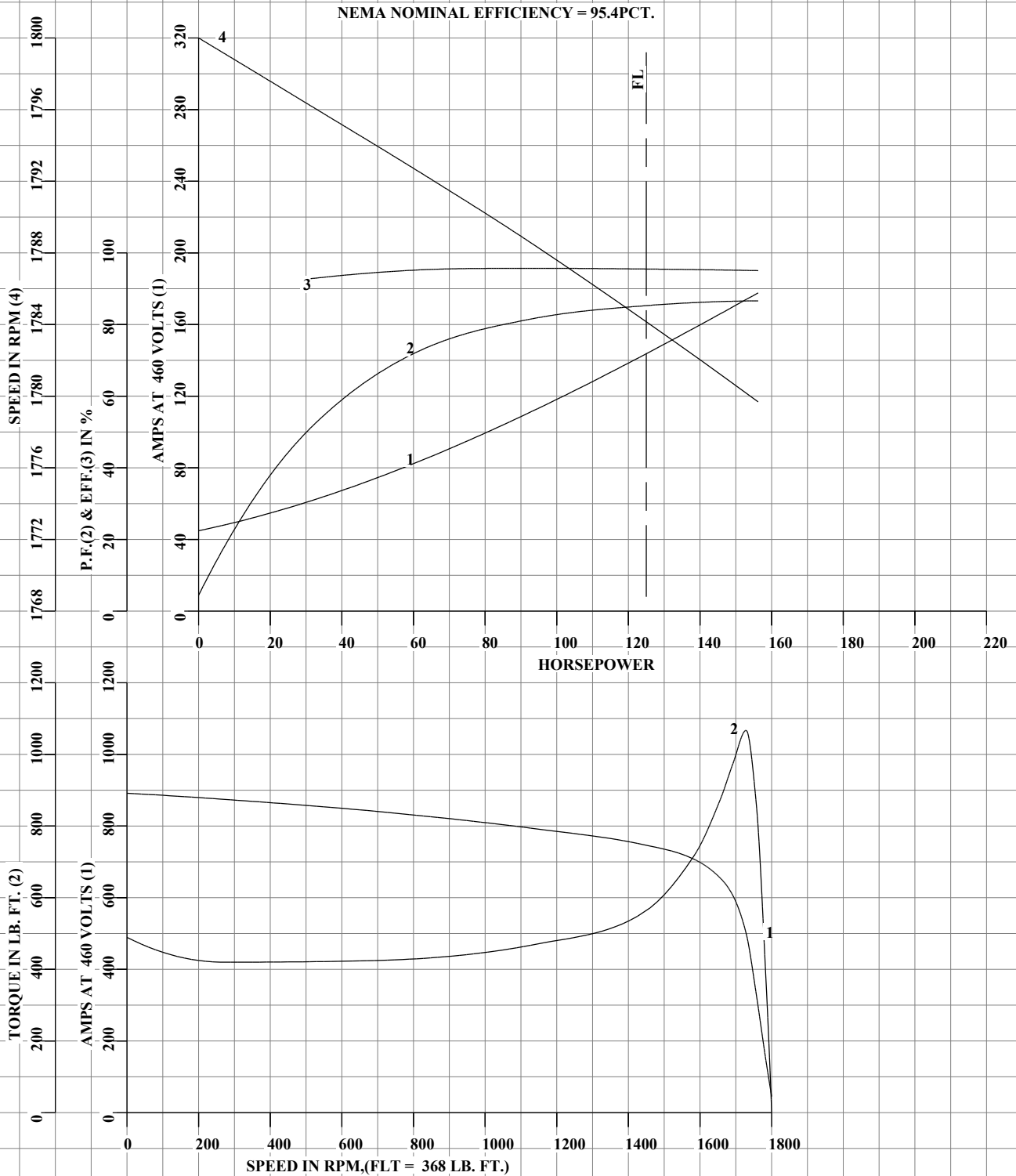
ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					ECP4410TR-4 - 125HP, 1785RPM, 3PH, 60HZ, 445T, TEFC, F1				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		444	125	P	3/60	1785	460				
AMPS		DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
144		CONT	40/F	1.15	B	G	TEFC				
E/S		ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)						
498834		418143052KE	---	---	.0383						
PERFORMANCE											
LOAD	HP	AMPERES		RPM	% POWER FACTOR		% EFFICIENCY				
NO LOAD	0	44.8		1800	4.44		0				
1/4	31.3	61.7		1796	51.1		92.8				
2/4	62.5	84.1		1792	73.0		95.3				
3/4	93.7	112		1788	81.7		95.7				
4/4	125	144		1784	85.3		95.5				
5/4	156	178		1780	86.6		95.1				
SPEED TORQUE											
		RPM		TORQUE % FULL LOAD	TORQUE LB.-FT.		AMPERES				
LOCKED ROTOR		0		133	489		892				
PULL UP		270		114	420		875				
BREAKDOWN		1729		290	1067		500				
FULL LOAD		1784		100	368		144				
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.											
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.4PCT.											
ABB		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		A44WG3870-R001 DATE ISSUED 05/04/21				

FRAME 444
HP 125
TYPE P
PHASE / HERTZ 3/60

RPM 1785
VOLTS 460
AMPS 144
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 498834

ROTOR 418143052KE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0383
OHMS (BETWEEN LINES)



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

A44WG3870-R001

ISSUE DATE 05/04/21

TEST S.O. TYPICAL DATA

TEST DATE --

STATOR RES. @ 25°C .0383

OHMS (BETWEEN LINES)

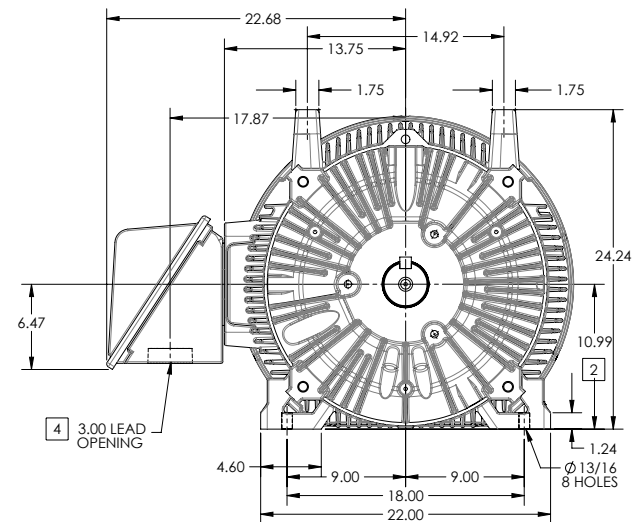


DATE 05/04/21 Page 8 of 11
Printed on 06/01/2021 9:16 AM

SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

INCLUDES 444T FRAME MOUNTING HOLES



- 5 WEIGHT (LBS): 2130

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

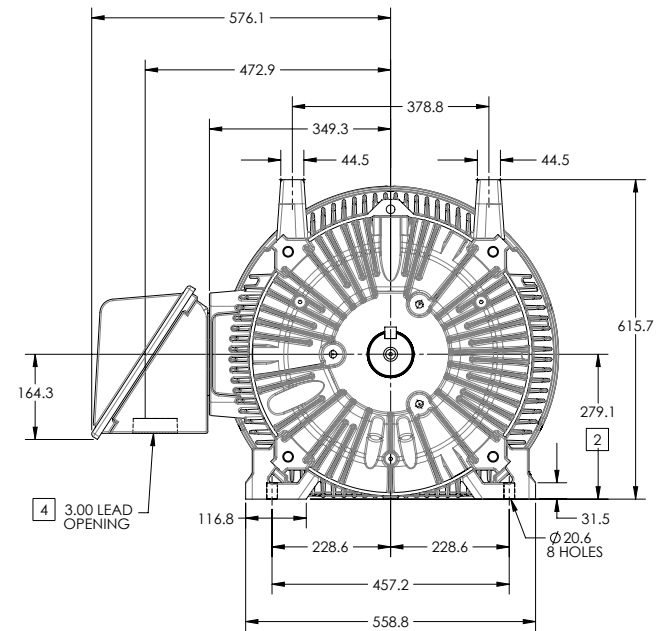
REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09-22-56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001			REF:
BY: RAGRA		Material:	

G445T/444T STD – FOOTED – SIDE/CENTER C/B

SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

INCLUDES 444T FRAME MOUNTING HOLES



- 5 WEIGHT (KGS): 970

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09-22-56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001			REF:
BY: RAGRA		Material:	

G445T/444T STD – FOOTED – SIDE/CENTER C/B

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