

ABB BALDOR RELIANCE III

Customer information packet

EFM4409T-4

100HP, 1190RPM, 3PH, 60HZ, 444T, TEFC, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	119.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617427-007
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	06-07-2014

Motor Type	A44064M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	44.75 IN
Power Factor	82
Pulley End Bearing Type	Ball
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	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	A44-5899-3905			CAT.NO.	EFM4409T-4					FRAME	444T	
HP	100	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P			
RPM	1190	AMPS	119	HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	90BC03J30X			DUTY	CONT	INSUL.CLASS	F					
OPP D.E. BEARING	90BC03J30X			ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR	82	NEMA-NOM-EFFICIENCY					95	
						MAX CORR KVAR	27	GUARANTEED EFFICIENCY			94.1	
						NEMA NOM/CSA QUOTED EFF						
						MOTOR WEIGHT						

NP2496L	
MOBIL POLYREX EM	

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							EFM4409T-4 - 100HP, 1190RPM, 3PH, 60HZ, 444T, TEFC, F2						
S/O			FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS							
			444T		100		P		3/60		1190		460							
AMPS							DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE			
119							CONT		40/F		1.15		B		G		TEFC			
E/S			ROTOR			TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)										
497780			418143098VE			---		---		.0547										
PERFORMANCE																				
LOAD			HP		AMPERES			RPM			% POWER FACTOR			% EFFICIENCY						
NO LOAD			0		39.9			1200			4.01			0						
1/4			25.0		55.8			1197			45.5			92.5						
2/4			50.0		72.5			1194			68.0			95.0						
3/4			75.0		94.3			1191			78.0			95.3						
4/4			100		119			1188			82.5			95.0						
5/4			125		147			1184			84.3			94.4						
SPEED TORQUE																				
					RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES						
LOCKED ROTOR					0			142			627			730						
PULL UP					168			126			558			717						
BREAKDOWN					1146			266			1175			438						
FULL LOAD					1188			100			442			119						
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 = 95.0 PCT.																				
					DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/06/10</u>					AC MOTOR PERFORMANCE DATA				A44WG3905-R001 DATE ISSUED 08/09/19						



FRAME 444T

RPM 1190

S.F. 1.15

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

VOLTS 460

CODE LETTER G

TEST DATE ---

TYPE P

AMPS 119

DUTY CONT

ENCLOSURE TEFC

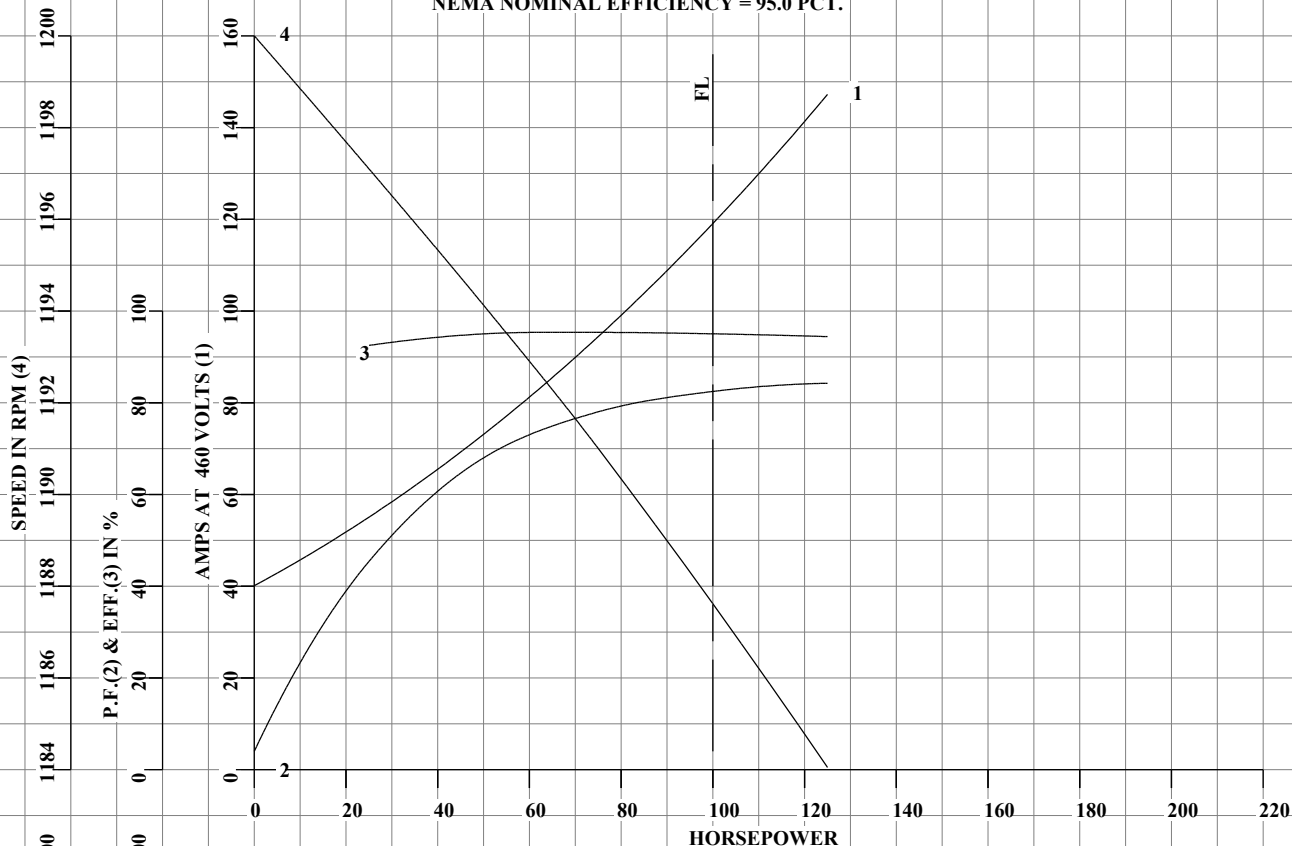
PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 497780

STATOR RES. @ 25°C .0547 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.



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AC MOTOR
PERFORMANCE
DATA

A44WG3905-R001

ISSUE DATE 08/09/19

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

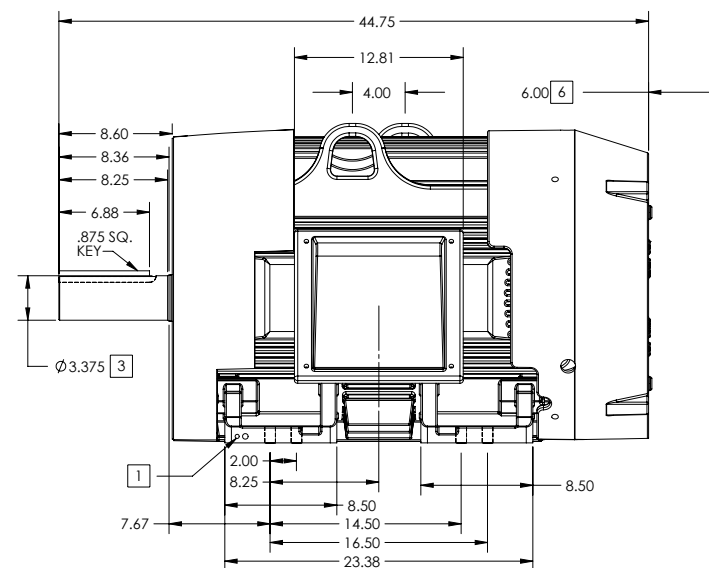
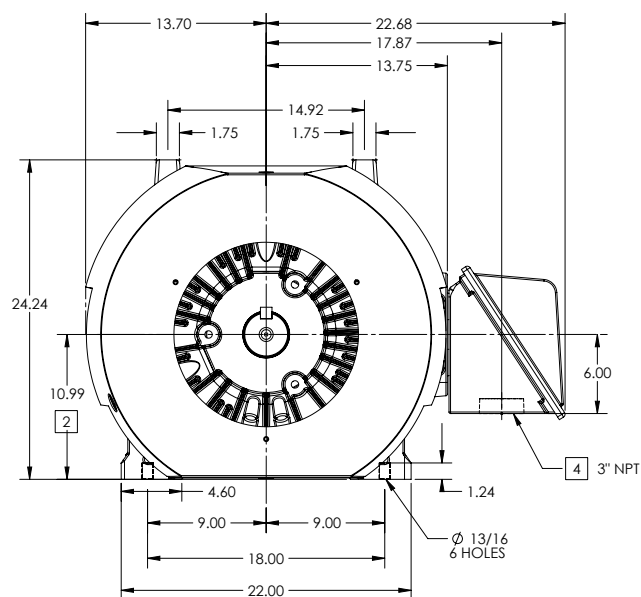
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

[5] WEIGHT (LBS): 2150

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

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

SHEET NUMBER
1 OF 2
L00P-LCP-119

REV. DESC INITIAL RELEASE	VERSION: 00	REVISED: 11-00-02 09/12/2012	TDR: 000000769644
MODEL NO. 617427-007	BY: RAGTBM	Material:	REF:

BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C/B - F2 MOUNT

617427-007

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

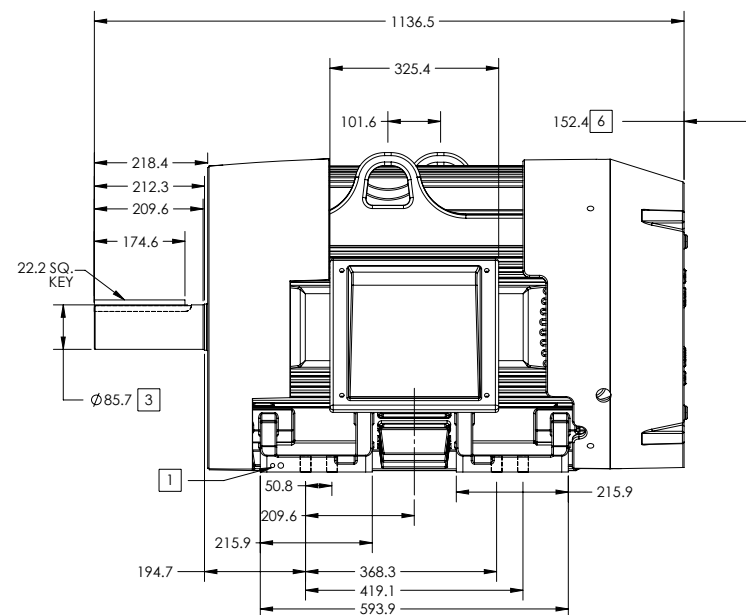
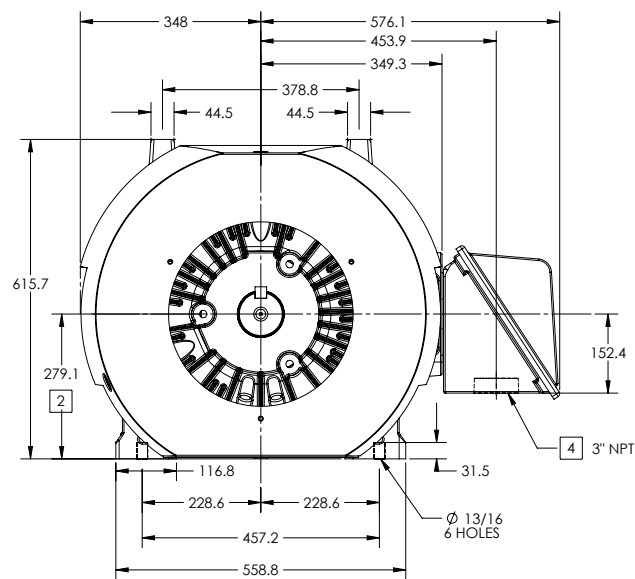
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

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1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

[5] WEIGHT (KGS): 975

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

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

SHEET NUMBER
2 OF 2

100P-LCP-119

REV. DESC. INITIAL RELEASE			
REV: -	VERSION: 00	REVISED: 11-00-02 09/12/2012	TDR: 000000760644
MODEL NO. 617427-007		REF:	
BY: RAGTBM		Material:	

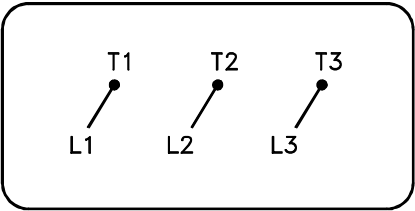
BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C/B - F2 MOUNT

617427-007

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