

BALDOR® • RELIANCE

Product Information Packet

EM4409T-4

100HP,1190RPM,3PH,60HZ,444T,A44064M,TEFC

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A44064M	Elec. Spec:	A44WG3905	CD Diagram:	416820-036
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617427-001
Frame:	444T	Mounting:	F1	Poles:	06	Created Date:	08-13-2012
Base:		Rotation:	R	Insulation:	F	Eff. Date:	08-05-2014
Leads:	3#2					Replaced By:	
Literature:		Elec. Diagram:					

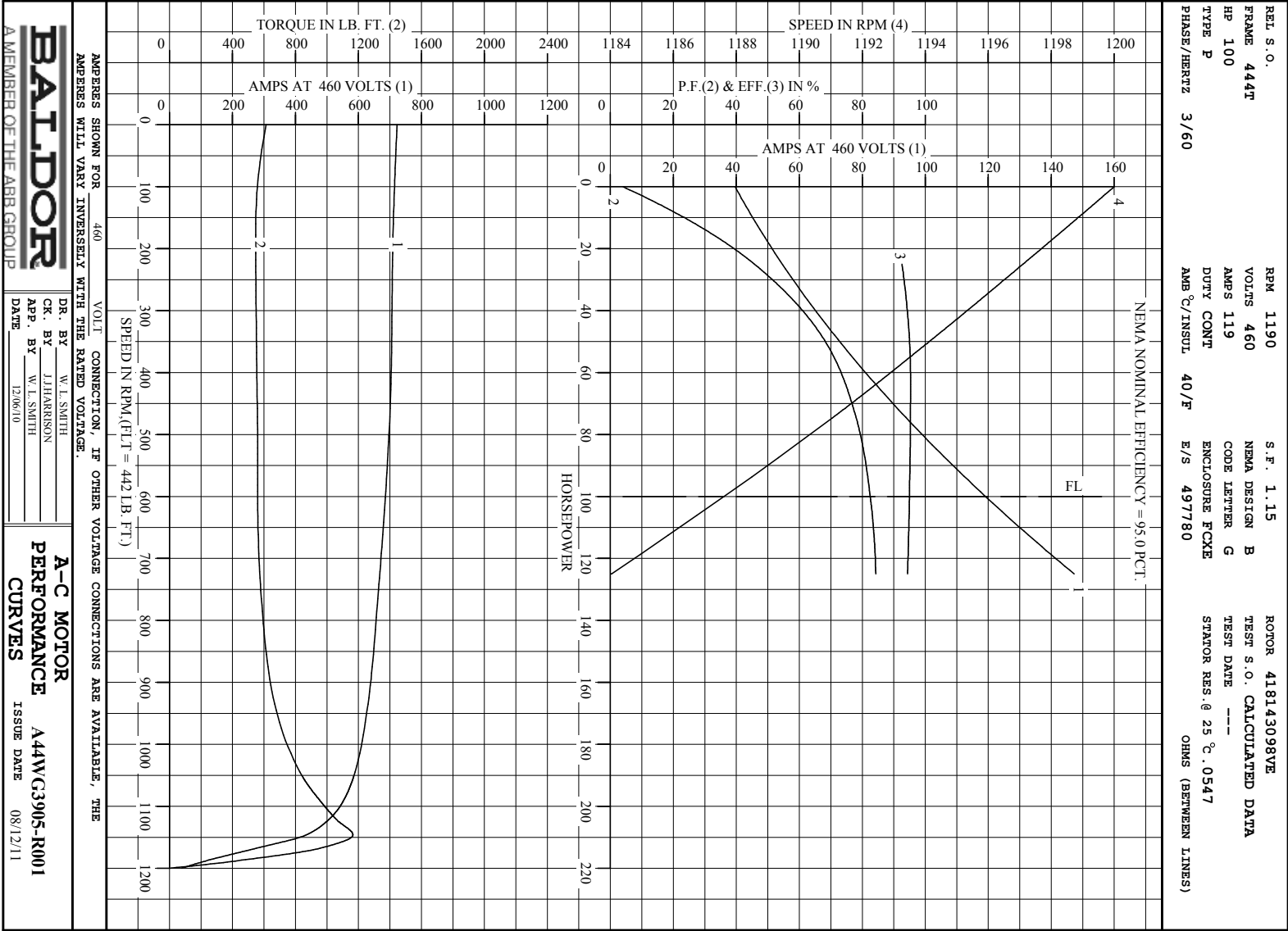
Nameplate NP2498L									
CAT.NO.	EM4409T-4	SPEC NO.	P44G3900						
HP	100	AMPS	119	VOLTS	460	DESIGN	B		
FRAME	444T	RPM	1190	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	90BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	F		
OPP D.E. BEARING	90BC03J30X	TYPE	P	ENCL	TEFC	CODE	G		
SER.NO.		POWER FACTOR	82	NEMA-NOM-EFFICIENCY	95				
		MAX CORR KVAR	27.0	GUARANTEED EFFICIENCY	94.1				
		NEMA NOM/CSA QUOTED EFF							
		MOTOR WEIGHT							

Parts List		
Part Number	Description	Quantity
SA249397	SA P44G3900	1.000 EA
RA236262	RA P44G3900	1.000 EA
613-6PU	N/P UL CSA LABLE	1.000 EA
NP2498L	BALDOR RELIANCE INDUSTRIAL MTR,	1.000 EA
000692000FF	N/P (RELEASE QTY 1,000)	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
421948051	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	1.156 LB
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 EA
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 EA
032620016LA	SOCKET SET SCREW-449	3.000 EA
34017-14AB	LCKW 3/8 STD. PLATED	4.000 EA
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 EA
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
034690002AB	"unbulked" PPLG 1/4" PLTD.	1.000 EA
034690005AB	PPLG 3/4 PLATED	2.000 EA
078549001DA	FAN 400 078549001F	1.000 EA
083199082RA	G28 FAN COVER W/BAFFLE ASSY 83199-82A	1.000 EA
089490099A	G28 BRKT 089490098WCA KB	1.000 EA
410700004A	WSHR	1.000 EA
412118006A	DRAIN	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
415045002A	SLGR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 EA
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 EA
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 EA
034530044BB	P/NIP 1/4X5-1/2L PLT	1.000 EA
034690002AB	"unbulked" PPLG 1/4" PLTD.	1.000 EA
089490099A	G28 BRKT 089490098WCA KB	1.000 EA
412118006A	DRAIN	1.000 EA
415915007G	GASK, LAC	1.000 FT
034690002AB	"unbulked" PPLG 1/4" PLTD.	1.000 EA
415045002A	SLGR	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	4.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
406056008A	GASKET, TERBD 440	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
418153001A	GASK 440	1.000 EA
702658001A	CONDUIT BOX, E440	1.000 EA
702658002A	+C/BOX CVR, PAINTED 440	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.250 GA
LB1346N	LABEL,SUPER-E GP(4X4)	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180054KA	KEY 7/8X7/8X6-3/4 L	1.000 EA
PK5004A09	BASE 48 X 39-1/4 STACK 2 X 4 RUUNER	1.000 EA

Accessories		
Part Number	Description	Multiplier
089490106A	C-FACE, BRKT, DE 089490105WCA	P1
089490110A	D-FLANGE EP MACHINING, G28 089490109WCA	P1



REL. 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	ENCL.
119	CONT	40/F	1.15	B	G	FCXE
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	39.4	1200	4.00	0	
1/4	25.0	55.3	1197	45.8	92.6	
2/4	50.0	72.2	1194	68.3	95.0	
3/4	75.0	94.2	1191	78.2	95.3	
4/4	100	119	1188	82.5	95.0	
5/4	125	147	1184	84.3	94.4	
SPEED TORQUE						
LOCKED ROTOR		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
	0	139	614	723		
PULL UP	168	124	548	710		
BREAKDOWN	1146	263	1165	433		
FULL LOAD	1188	100	442	119		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.						



A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH

CK. BY J. J. HARRISON

APP. BY W. L. SMITH

DATE 12/06/10

A-C MOTOR

PERFORMANCE DATA

A44WG3905-R001

ISSUE DATE 08/12/11

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

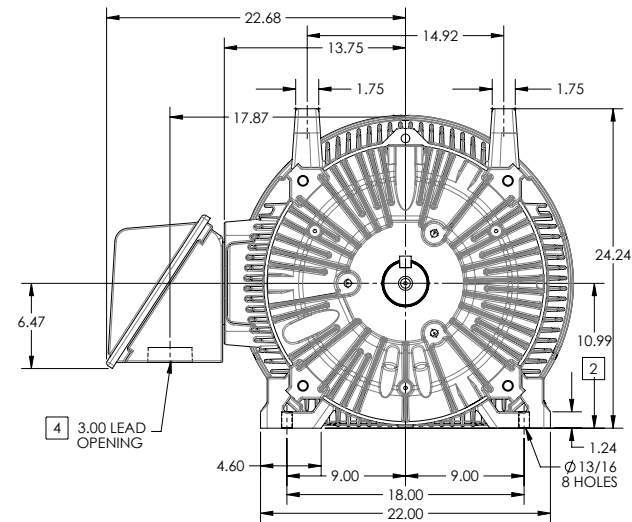
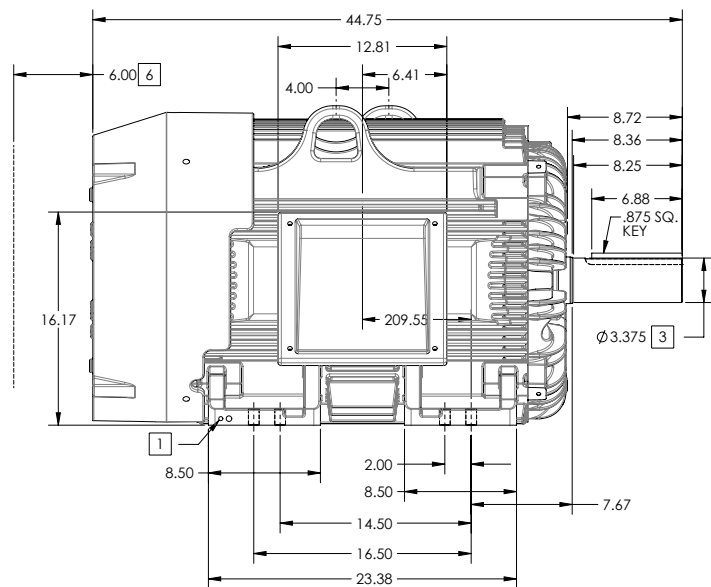
ENCLOSURE: TOTALLY ENCLOSED

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 +.00,-.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 NOT ENCR OACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
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): 2130

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

100-2272-119

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:		

BALDOR

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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

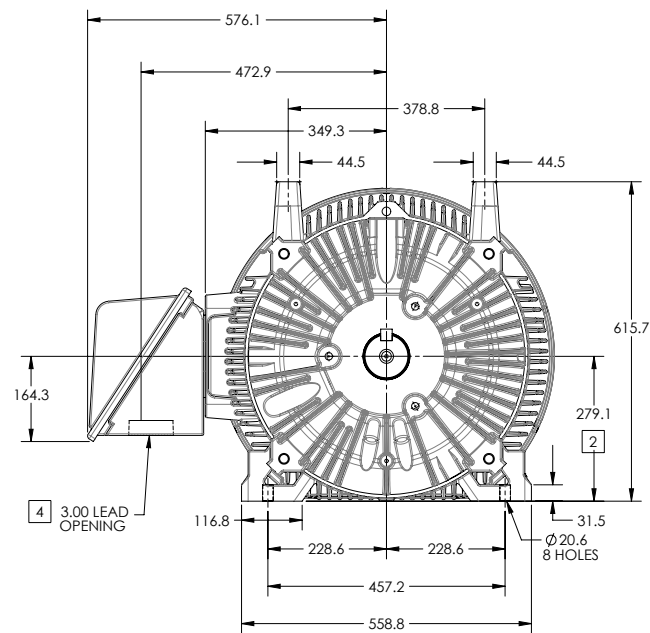
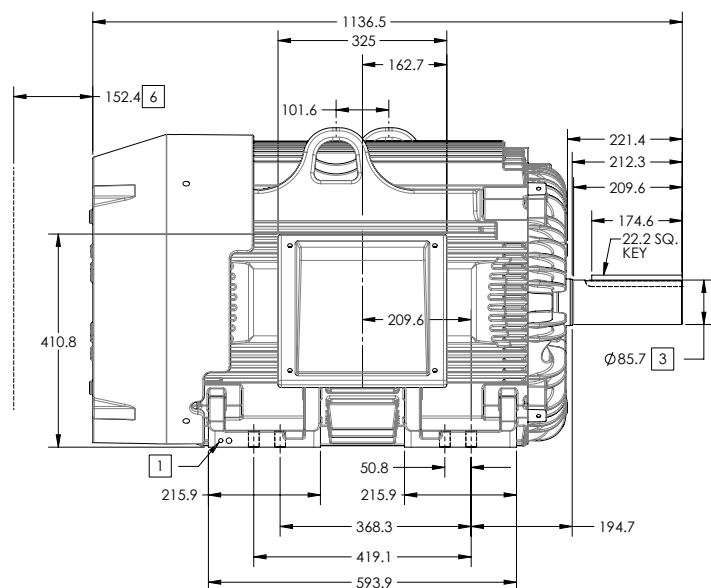
ENCLOSURE: TOTALLY ENCLOSED

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 +0,-1.5
3. VARIES +00,-.03
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 NOT ENCR OACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

[5] WEIGHT (KGS): 970

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

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

SHEET NUMBER
2 OF 2

100-227-119

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION	
REV: E	VERSION: 05
MODEL NO. 617427-001	REVISED: 09-22-56 06/12/2014
BY: RAGRA	TDR: 00000857938
Material:	REF:

BALDOR

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

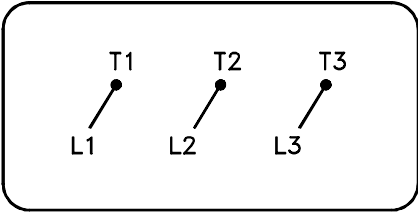
416820-036

A-C MOTOR

CONNECTION DIAGRAM

STANDARD 3 LEAD

CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	
MTL: -		BY: RAGRA	

Marketing maintained PDF of MN408:

<http://www.baldor.com/support/Literature/Load.ashx/MN408?ManNumber=MN408>

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>