

BALDOR® • RELIANCE

Product Information Packet

EM4413T-4

150HP/3570RPM/3PH/TEFC/NEMA 445TS

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Part Detail									
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No		
Type:	AC	Prod. Type:	A4478M	Elec. Spec:	A44WG3535	CD Diagram:			
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:			
Frame:	445TS	Mounting:	F1	Poles:	02	Created Date:	12-20-2010		
Base:		Rotation:	R	Insulation:	F	Eff. Date:	08-23-2012		
Leads:	3#2 (02 per group)	Literature:		Elec. Diagram:		Replaced By:			
Nameplate NP2383L									
CAT.NO.	EM4413T-4	SPEC NO.	P44G4426						
HP	150	AMPS	164	VOLTS		460	DESIGN	B	
FRAME	445TS	RPM	3570	HZ		60	AMB	40	SF 1.15
DRIVE END BEARING	65BC03J30X	PHASE	3	DUTY		CONT	INSUL.CLASS	F	
OPP D.E. BEARING	65BC03J30X	TYPE	P	ENCL		TEFC	CODE	G	
SER.NO.		POWER FACTOR	90	NEMA-NOM-EFFICIENCY		95			
		MAX CORR KVAR	20.0	GUARANTEED EFFICIENCY		94.1			
NEMA NOM/CSA QUOTED EFF									
		MOTOR WEIGHT							

Parts List		
Part Number	Description	Quantity
SA213638	SA P44G4426	1.000 EA
RA200858	RA P44G4426	1.000 EA
421948051	LABEL, MYLAR	1.000 EA
613-6PU	N/P (RELEASE QTY 10,000)	1.000 EA
000692000FF	N/P (RELEASE QTY 1,000)	1.000 EA
000692000VD	N/P (REL QTY 4000)	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
089490097A	BRKT 089490102WCA	1.000 EA
415072001B	CLAMP	1.000 EA
083199082RA	G28 FAN COVER W/BAFFLE ASSY 83199-82A	1.000 EA
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 EA
412118006A	DRAIN	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
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
410700004F	WSHR	1.000 EA
035000001G	GITS GRS CUP,ODE	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
034530072AB	P/NIP 1/8X9"L GALV.	1.000 EA
034690005AB	PPLG 3/4 PLATED	2.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA

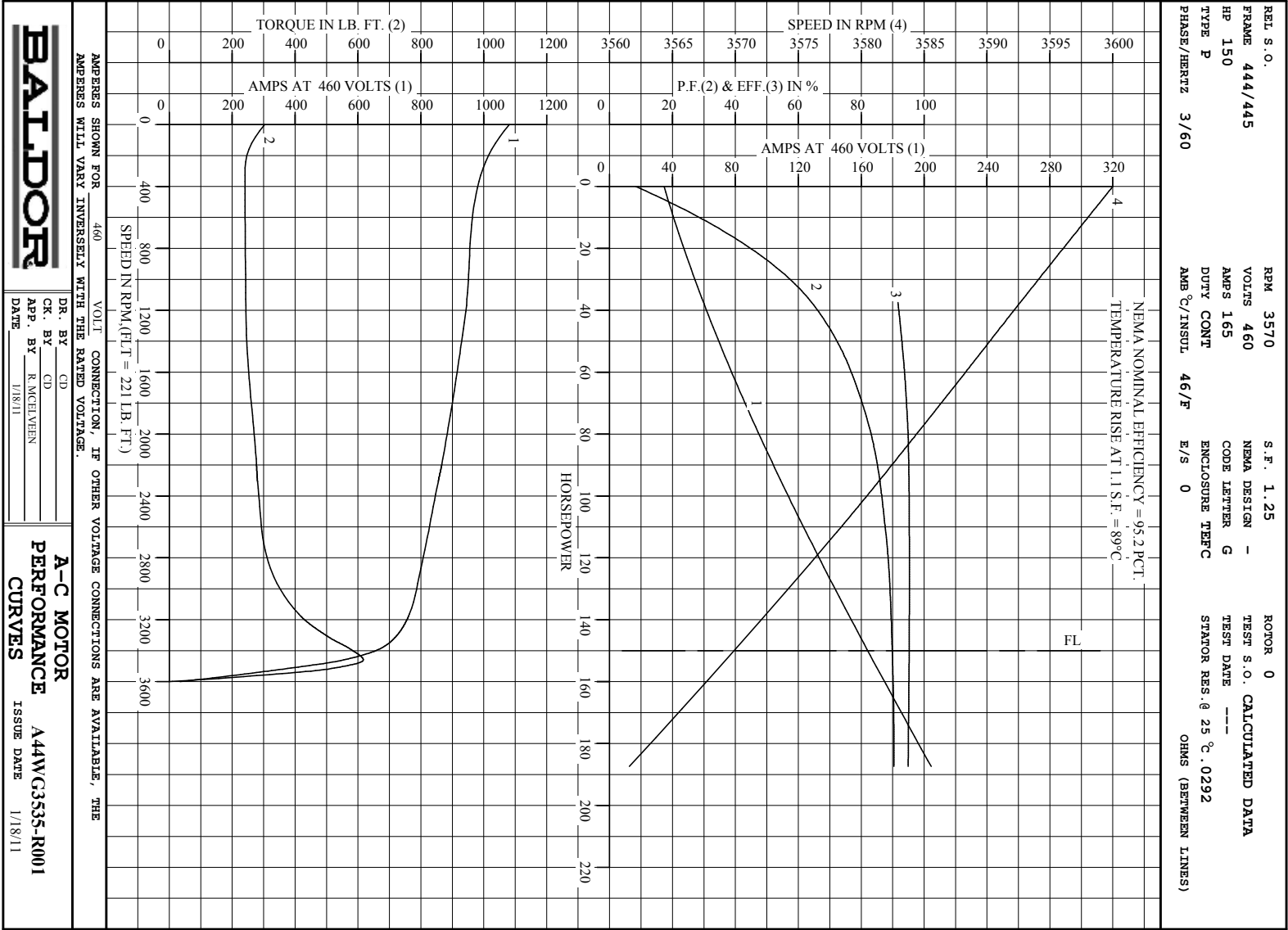
Parts List (continued)		
Part Number	Description	Quantity
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA
702623013R	THERMAL BARRIER, G28	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
089490097A	BRKT 089490102WCA	1.000 EA
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 EA
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 EA
415045002E	SLGR	1.000 EA
412118006A	DRAIN	1.000 EA
034530072AB	P/NIP 1/8X9"L GALV.	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 EA
702658001A	+C/BOX, PAINTED 440	1.000 EA
415039027A	GASKET, G28 LEAD THROAT	1.000 EA
702658002A	+C/BOX CVR, PAINTED 440	1.000 EA
406056008A	TERBD 440	1.000 EA
418153001A	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

Parts List (continued)		
Part Number	Description	Quantity
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
415000003D	T/LUG 897-777 KPA25/G16	1.000 EA
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
415030115A	G28 C/BOX 415030114WCA	1.000 EA
032130014DB	HSCHS1/2-13X1-3/4 PLATE	4.000 EA
034000016AB	WSHR .531ID 1.062OD .095	4.000 EA
MG1000Y03	WILKO 689.710 GOLD PAINT SUPER E	0.250 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180024HA	KEY 5/8X5/8X3 L	1.000 EA
LB1346	LABEL,SUPER-E GP(4X4)	1.000 EA
PK5004A09	BASE 48 X 39-1/4 STACK 2 X 4 RUUNER	1.000 EA

Accessories		
Part Number	Description	Multiplier
089490104B	BRKT,DE 089490103WCA, C-Face	P1
089490108A	D-FLANGE EP MACHINING, G28 W/6313 BRG	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444/445	150	P	3/60	3570	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
165	CONT	46/F	1.25	-	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	8.34	0	
1/4	37.5	59.6	3593	64.3	91.7	
2/4	75.0	90.7	3585	81.8	94.7	
3/4	113	126	3578	87.9	95.3	
4/4	150	164	3570	89.9	95.2	
5/4	187	205	3562	90.4	94.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	138	304	1081		
PULL UP	288	109	241	997		
BREAKDOWN	3461	280	617	552		
FULL LOAD	3570	100	221	164		
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 = 95.2 PCT. TEMPERATURE RISE AT 1.1 S.F. = 89°C						
BALDOR DR. BY CD CK. BY CD APP. BY R. MEIWEEN DATE 1/18/11		A-C MOTOR PERFORMANCE DATA A44WG3535-R001 ISSUE DATE 1/18/11				

Printed on 2/3/11 14:08 @ usmgchengdev1



DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

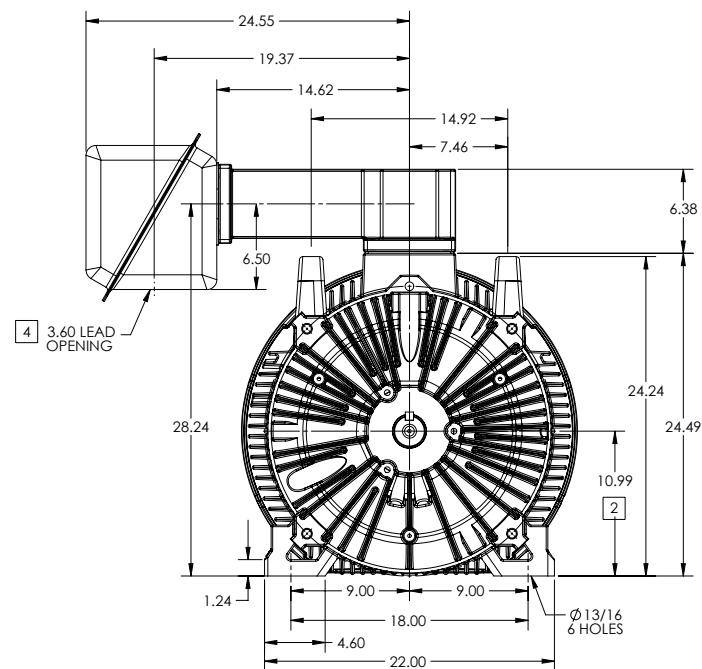
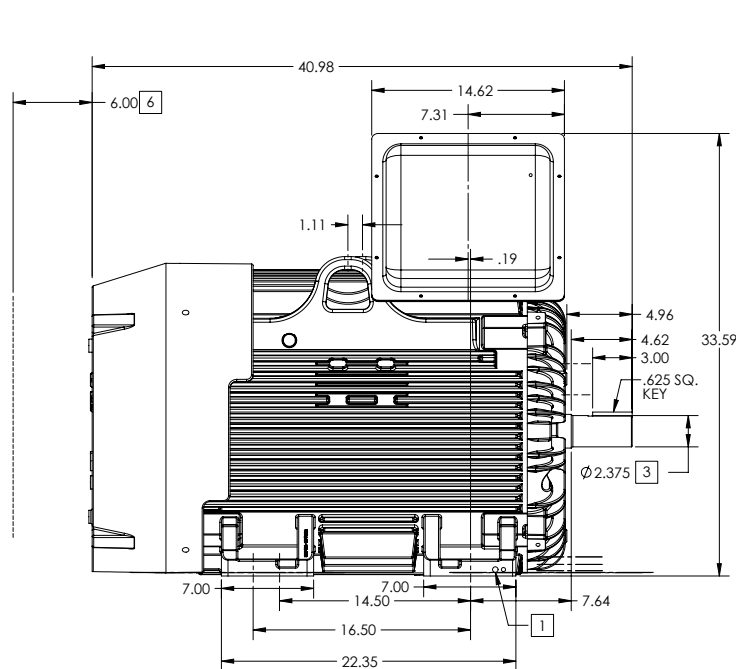
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444TS 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 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH 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.

WEIGHT (LBS): 2149

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. A	VERSION: 01	REVISED: 11/17/08 06/14/2011	TDR: 000000599477
MODEL NO. 617423-069	BY: MGH/TL	Material:	REF:

BALDOR

DIM SHEET G445TS/G444TS WITHOUT AIR DEFLECTOR, STD ST C-BOX

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

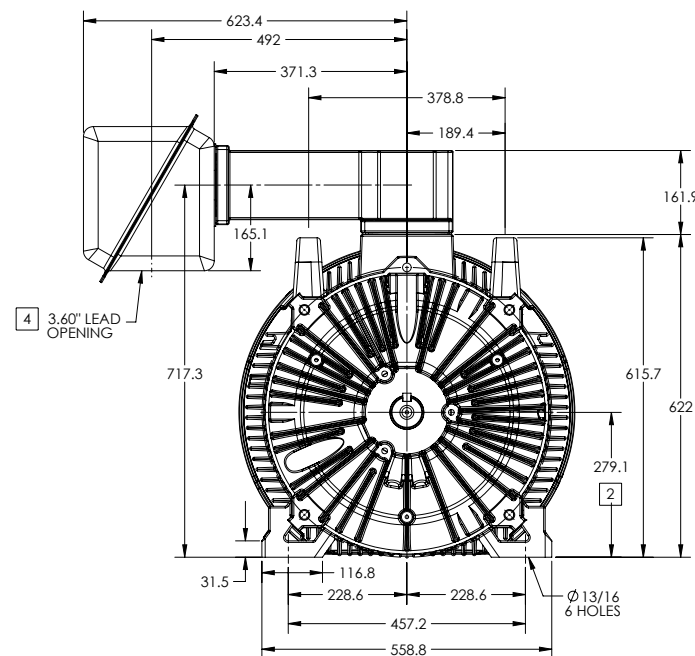
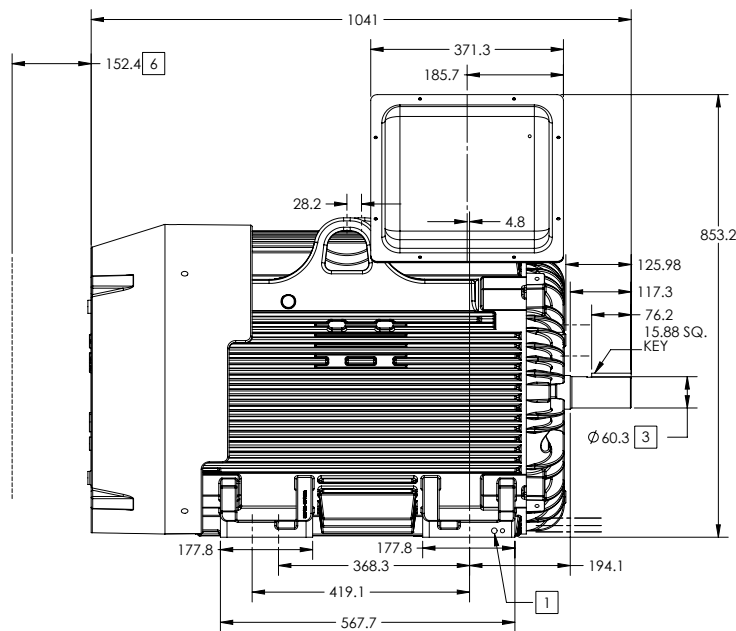
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444TS 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 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH 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 .038 MM T.I.R. FOR BALL BEARING MOTORS
AND .051 MM T.I.R. FOR ROLLER BEARING MOTORS TO 127 MM DIA.

WEIGHT (KGS): 975

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

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

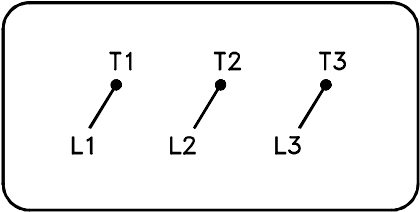
REV. A	VERSION: 01	REVISED: 11/17/08 06/14/2011	TDR: 900000599477
MODEL NO. 617423-069	BY: MGH/LC	Material:	REF:

BALDOR

DIM SHEET G445TS/G444TS WITHOUT AIR DEFLECTOR, STD ST C-BOX

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
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	CONN DIAG - STANDARD 3 LEAD
MTL: -		BY: RAGRA	SH 1 of 1