

BALDOR® • RELIANCE

Product Information Packet

EM44302T-4

300HP,3570RPM,3PH,60HZ,449TS,TEFC,F1

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A44128M	Elec. Spec:	A44WG4563	CD Diagram:	416820-036
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617427-445
Frame:	449TS	Mounting:	F1	Poles:	02	Created Date:	04-09-2015
Base:		Rotation:	R	Insulation:	F	Eff. Date:	06-03-2016
Leads:	3#2/0 (02 per group)					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2496L

MOBIL POLYREX EM

Nameplate NP2349L

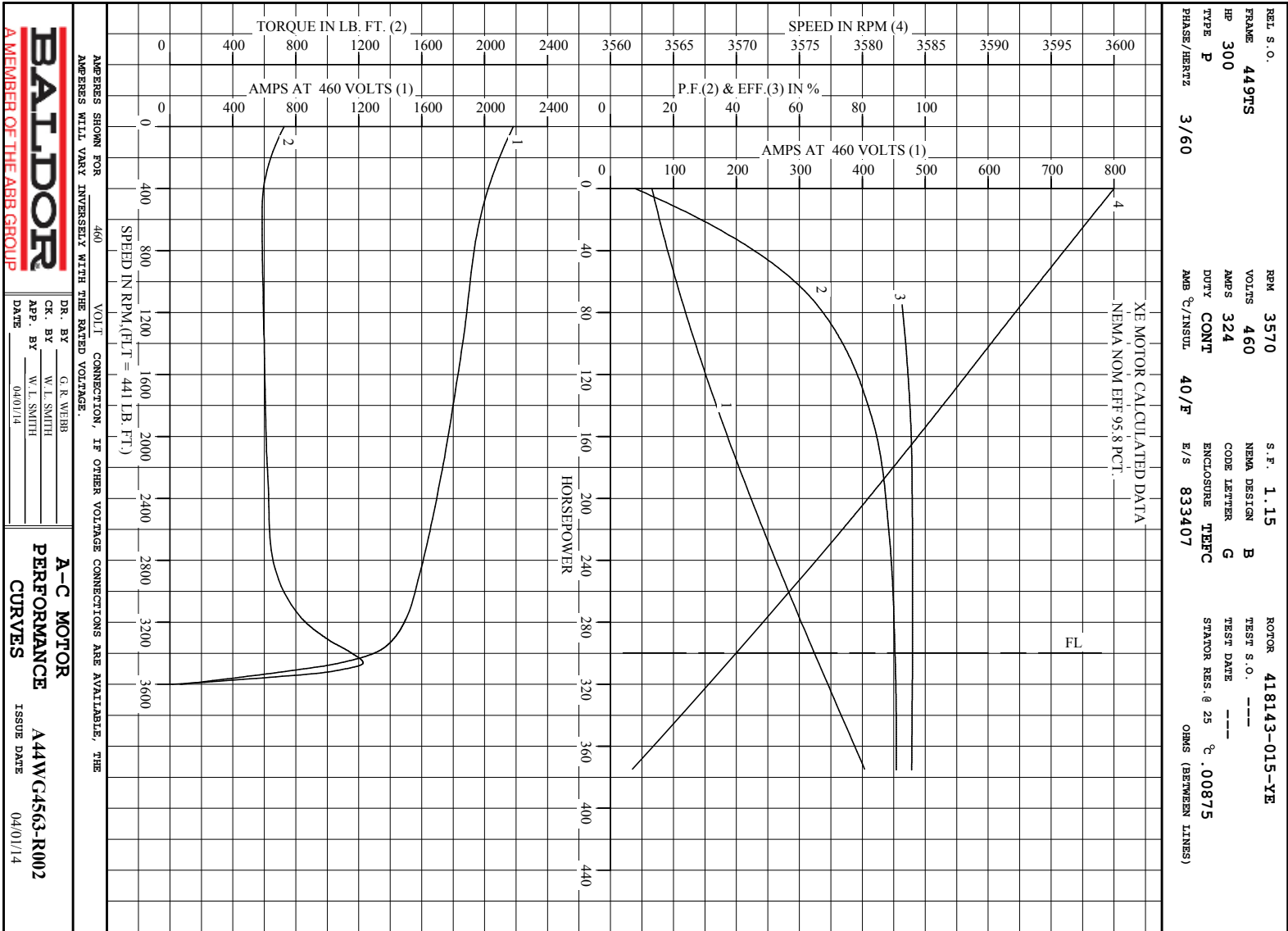
SPEC NO.	A44-7108-4563		CAT.NO.	EM44302T-4		FRAME	449TS			
HP	300	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P	
RPM	3570	AMPS	324	HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	65BC03J30X		DUTY	CONT		INSUL.CLASS	F			
OPP D.E. BEARING	65BC03J30X		ENCL	TEFC		CODE	G			
SER.NO.			POWER FACTOR	90		NEMA-NOM-EFFICIENCY	95.8			
						MAX CORR KVAR	34		GUARANTEED EFFICIENCY	95
						NEMA NOM/CSA QUOTED EFF				
						MOTOR WEIGHT				2595

Parts List		
Part Number	Description	Quantity
SA296391	SA A44-7108-4563	1.000 EA
RA282431	RA A44-7108-4563	1.000 EA
421948051	LABEL, MYLAR	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	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
NP2349L	SUPER-E ,SS, CSA, CSA SUPER-E	1.000 EA
089490097A	BRKT 089490102WCA	1.000 EA
415072001B	CLAMP	1.000 EA
083199126RA	G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY	1.000 EA
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 EA
078548001R	FAN KB 234/150 (84) 400	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
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 EA
034690005AB	PPLG 3/4 PLATED	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
034690002AB	"unbulked" PPLG 1/4" PLTD.	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034690001AB	SQHDPLG, COND	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
032620016LA	SOCKET SET SCREW-449	3.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 EA
034690002AB	"unbulked" PPLG 1/4" PLTD.	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA
702623012A	THERMAL BARRIER, G28	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 EA
034000013AB	WSHR 5/16" PLATED-440	3.000 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
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 EA
034017013AB	LCKW 5/16 STD. PLATED	3.000 EA
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 EA
034001013AB	FTW BAFFLE	3.000 EA
415915007K	GASK, 26" LAC	1.000 EA
406056008A	GASKET, TERBD 440	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	4.000 EA
702616012T	CONDUIT BOX	1.000 EA

035000001A	ALFTG 1/8" 1610-BL	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
MG1025Y03	WILKOFAS, 789.701, SUPER E PEARL GOLD	2.000 QT
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180024HA	KEY 5/8X5/8X3 L	1.000 EA
604797056	400-447 FRAME 60 X 42	1.000 EA
032510026D	CARRIAGE BOLT - 440	2.000 EA
034001014AB	FLAT WASHER 3/8"PLATED	2.000 EA
034001016AB	WSHR .562ID 1.375OD .109	2.000 EA
033300014AC	HEX NUT, SHIPPING - 400	2.000 EA
604797003C	SHIPPING BAG	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449TS	300	P	3/60	3570	460
AMPS	DUTY	AMB ^{°C} / INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
324	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 ^{°C} OHMS (BETWEEN LINES)		
833407	418143-015-YE	---	---	.00875		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	65.9	3600	7.78	0	
1/4	75.0	116	3593	65.6	92.6	
2/4	150	177	3585	83.3	95.4	
3/4	225	248	3578	88.6	95.9	
4/4	300	324	3570	90.4	95.9	
5/4	375	404	3562	90.8	95.7	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	164	725	2182		
PULL UP	540	133	586	1984		
BREAKDOWN	3462	278	1228	1081		
FULL LOAD	3570	100	441	324		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: XE MOTOR CALCULATED DATA NEMA NOM EFF 95.8 PCT.						
BALDOR A MEMBER OF THE ABB GROUP		DR. BY G. R. WEBB CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 04/01/14		A-C MOTOR PERFORMANCE DATA A44WG4563-R002 ISSUE DATE 04/01/14		



DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

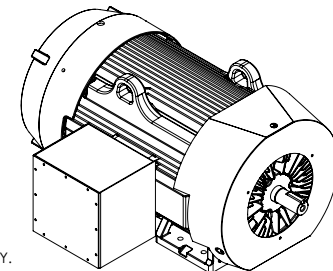
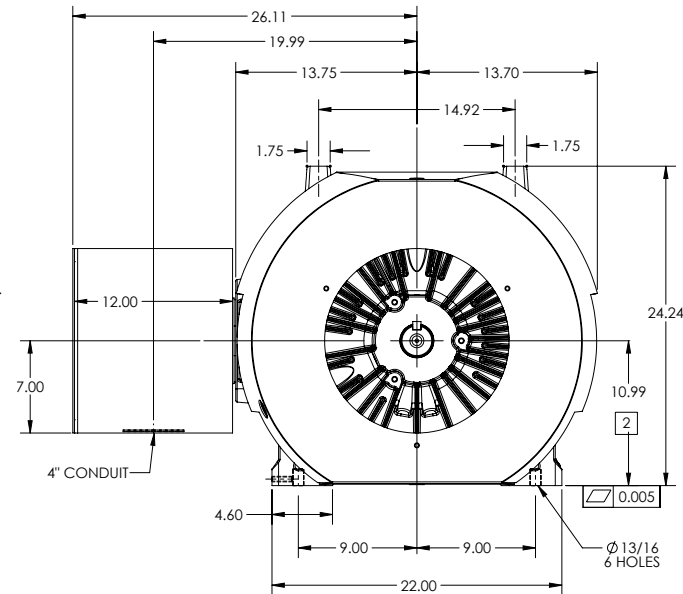
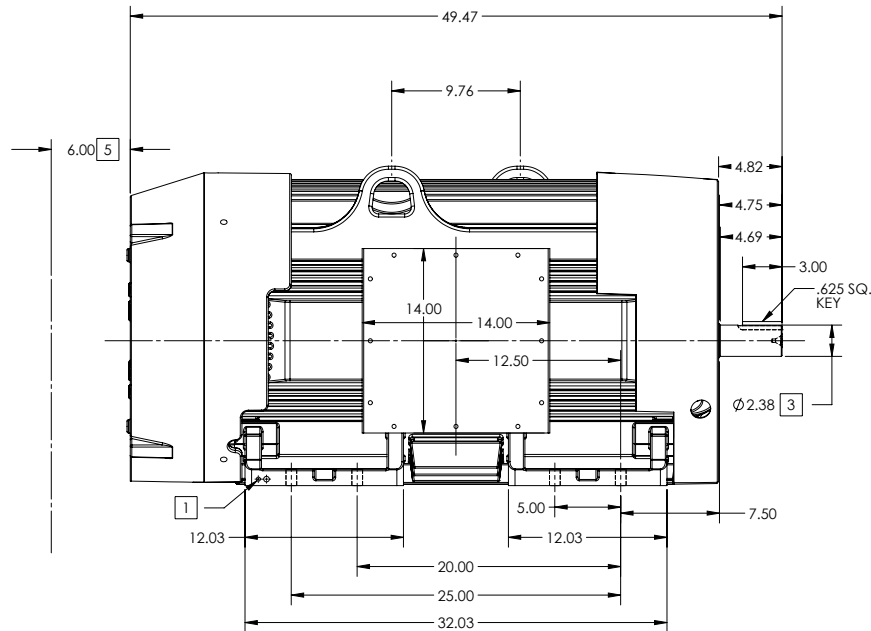
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449TS ABOVE NEMA RATINGS (3600 RPM MAX)

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447TS FRAME MOUNTING HOLES



4 WEIGHT (LBS): 3080

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES

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

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00, -.06
3. VARIES +.000, -.001
4. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
5. OBSTRUCTION MUST NO 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.

 SHEET NUMBER
1 OF 2

617427-445

REV. DESC: NEW DRAWING

REV: - VERSION: 00

REVISED: 11-13-38 04/02/2015

TDR: 00000918312

MODEL NO. 617427-445

BY: RAGEC

BALDOR

G449TS/447TS-FOOTED-SIDE-CENTER CONDUIT BOX-14X14X12

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

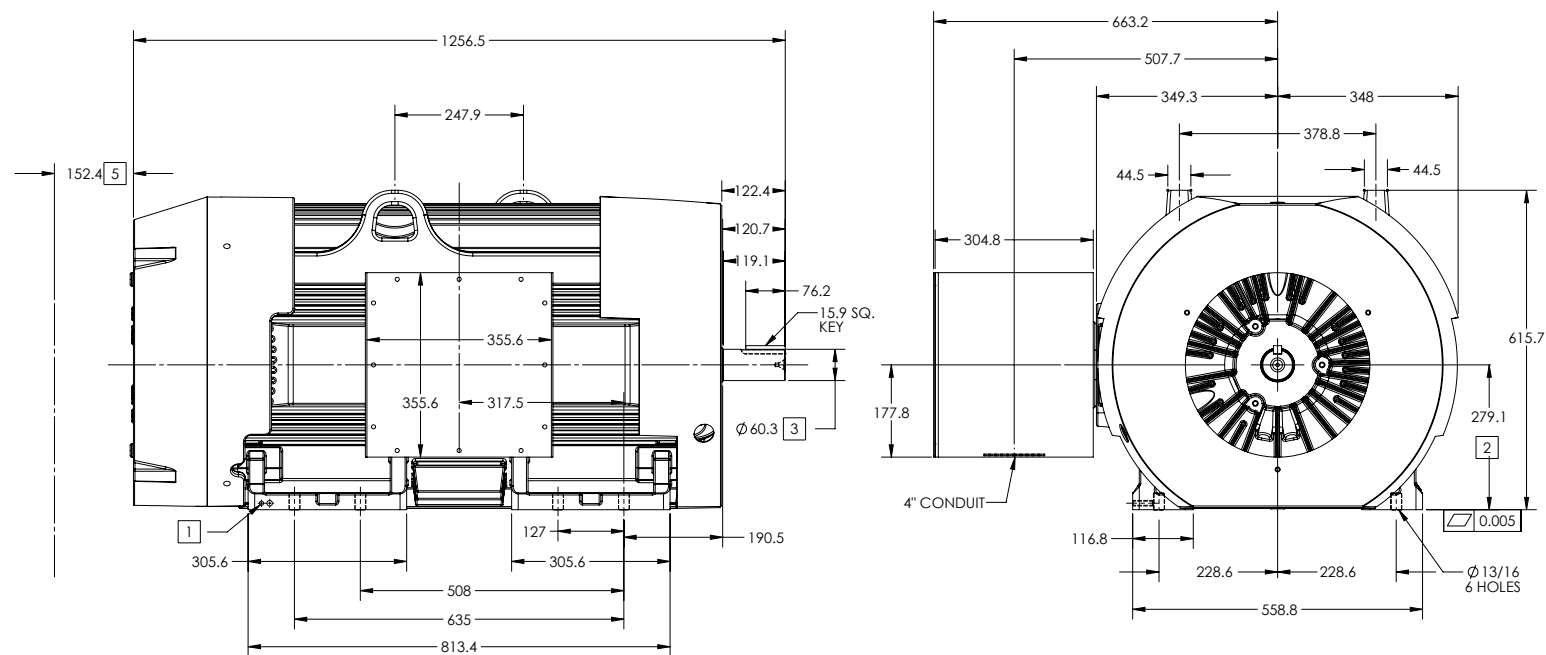
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449TS ABOVE NEMA RATINGS (3600 RPM MAX)

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447TS 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. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NO 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): 1400

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS

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

SHEET NUMBER
2 OF 2

577-17427-119

REV. DESC: NEW DRAWING
REV: - VERSION: 00
MODEL NO. 617427-445
BY: RAGEC

REVISED: 11-13-38 04/02/2015

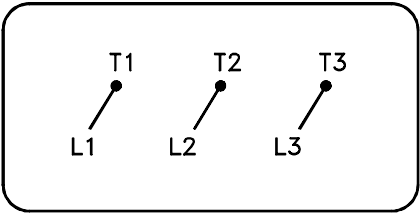
TDR: 00000918312

BALDOR

G449TS/447TS-FOOTED-SIDE-CENTER CONDUIT BOX-14X14X12

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

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>