

BALDOR® • RELIANCE

Product Information Packet

EM25694T-4

300HP,1785RPM,3PH,60HZ,449T,DP,F1

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A44112M	Elec. Spec:	A44WG4249	CD Diagram:	416820-008
Enclosure:	DP	Mfg Plant:		Mech. Spec:		Layout:	604989-380
Frame:	449T	Mounting:	F1	Poles:	04	Created Date:	04-29-2015
Base:		Rotation:	R	Insulation:	F	Eff. Date:	05-08-2015
Leads:	6#2/0					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2496L

MOBIL POLYREX EM

Nameplate NP2349L

SPEC NO.	A44-7189-4249			CAT.NO.	EM25694T-4			FRAME	449T		
HP	300		VOLTS	460		PHASE	3	DESIGN	B	TYPE	P
RPM	1785	AMPS	331			HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	90BC03J30X			DUTY	CONT		INSUL.CLASS	F			
OPP D.E. BEARING	90BC03J30X			ENCL	DP		CODE	G			
SER.NO.				POWER FACTOR	88		NEMA-NOM-EFFICIENCY	95.8			
						MAX CORR KVAR	59.9		GUARANTEED EFFICIENCY	95	
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT	2151				

Parts List		
Part Number	Description	Quantity
SA299797	SA A44-7189-4249	1.000 EA
RA286825	RA A44-7189-4249	1.000 EA
421948044	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
702611001A	BAFFL 440 SUB PAINT	1.000 EA
089439051A	BRKT 440 089439051WCB	1.000 EA
004824015A	GREASE POLYREX EM	1.160 LB
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 EA
410700004A	WSHR	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
405851012AB	SPACE	4.000 EA
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
418151014G	RETAIN RING	1.000 EA
405851012AB	SPACE	4.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA

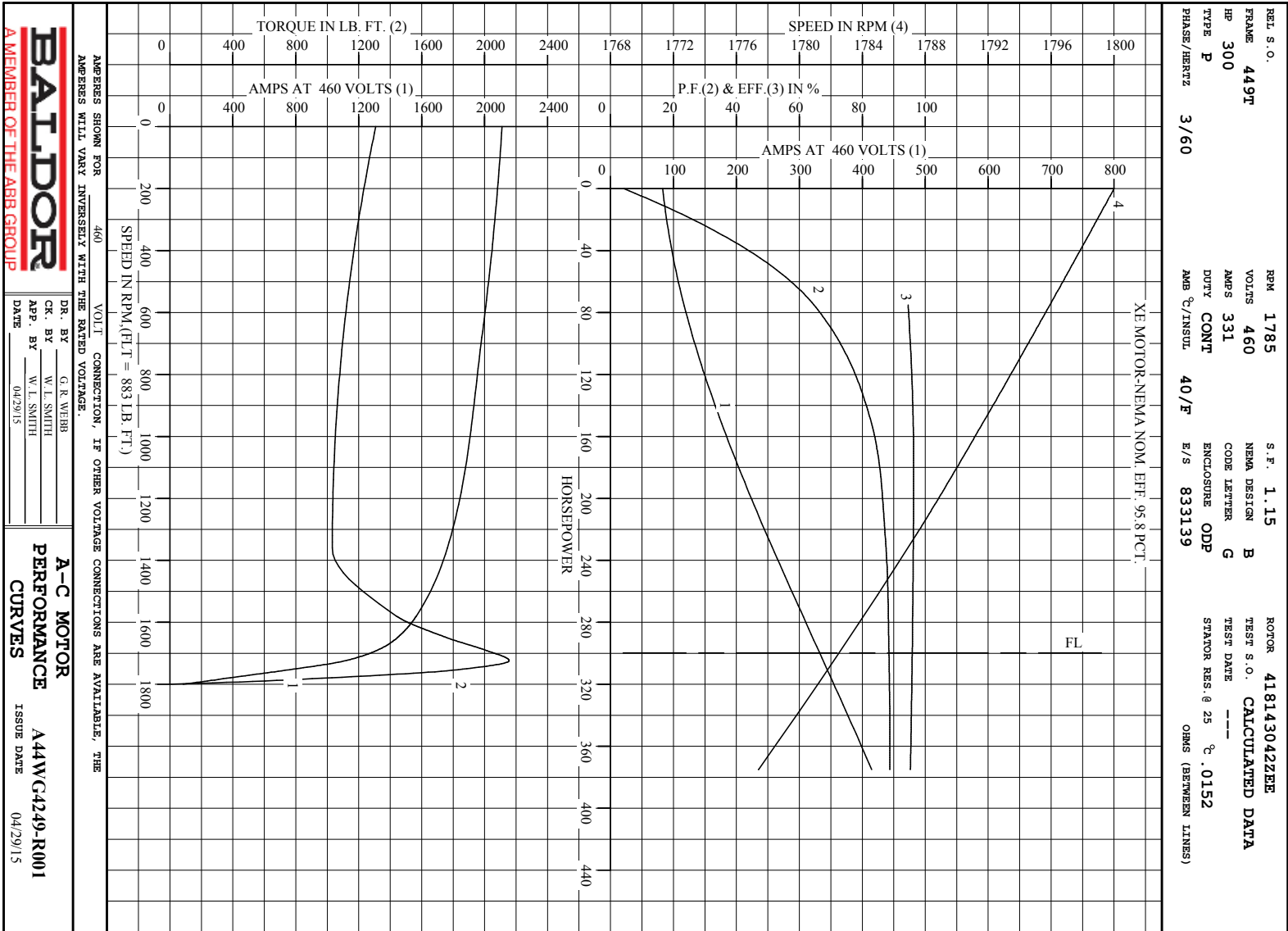
Parts List (continued)		
Part Number	Description	Quantity
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 EA
089439051A	BRKT 440 089439051WCB	1.000 EA
702611001A	BAFFL 440 SUB PAINT	1.000 EA
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	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
048897010DJ	BUSH - 445	1.000 EA
702616012T	CONDUIT BOX	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	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	1.000 QT
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180054KA	KEY 7/8X7/8X6-3/4 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
	449T	300	P	3/60	1785	460
AMPS	DUTY	AMB [°] C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
331	CONT	40/F	1.15	B	G	ODP
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 [°] C OHMS (BETWEEN LINES)		
833139	418143042ZEE	---	---	.0152		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	83.6	1800	4.22	0	
1/4	75.1	115	1796	64.7	94.6	
2/4	150	176	1792	82.7	96.2	
3/4	225	251	1787	87.3	96.2	
4/4	300	331	1783	88.5	95.9	
5/4	375	415	1777	88.7	95.3	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	148	1308	2111		
PULL UP	1360	117	1032	1764		
BREAKDOWN	1724	244	2156	1114		
FULL LOAD	1783	100	883	331		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA XE MOTOR-NEMA NOM. EFF. 95.8 PCT.						

BALDOR
A MEMBER OF THE ABB GROUP

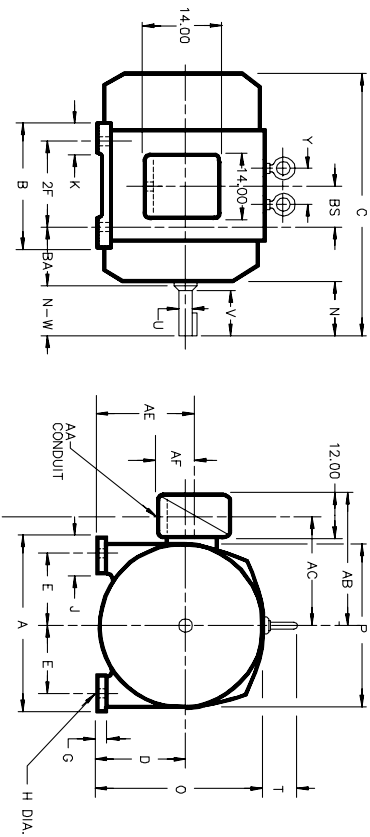
DR. BY G. R. WEBB
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 04/29/15

A-C MOTOR
PERFORMANCE DATA
A44WG4249-R001
ISSUE DATE 04/29/15



604989-380

DUTY MASTER ALTERNATING CURRENT MOTORS
ENCLOSURE: PROTECTED SQUIRREL-CAGE INDUCTION COOLING: SELF-VENTILATED
TOTALLY ENCLOSED NON-VENTILATED
MOUNTING: FOOT
FRAMES 445T THRU 449TS ABOVE NEMA RATINGS
WITH SPECIAL CONDUIT BOX



DIMENSIONS ARE IN INCHES

FRAME	A	D/2	E	G	H	J	O	P	BA	K	T	Y (4)
445T	21.00	11.00	9.00	1.12	.81	3.25	23.62	24.25	7.50	3.25	3.25	---
447S	21.00	11.00	9.00	1.12	.81	3.25	23.62	24.25	7.50	3.25	3.25	---
447T	21.00	11.00	9.00	1.12	.81	3.25	23.62	24.25	7.50	3.25	4.25	5.00
447S	21.00	11.00	9.00	1.12	.81	3.25	24.25	24.25	7.50	3.25	4.25	5.00
449T	21.00	11.00	9.00	1.12	.81	3.25	24.25	24.25	7.50	3.25	4.25	5.00
449TS	21.00	11.00	9.00	1.12	.81	3.25	24.25	24.25	7.50	3.25	4.25	5.00

FRAME	C	BS	B	2F	N	N-W	U(3)	V	LGTH.	KEY	SQ. WT. (LBS)
445T	39.56	8.25	19.00	16.50	8.94	8.50	3.375	8.25	6.88	.875	1410
447S	35.81	8.25	19.00	16.50	5.19	4.75	2.375	4.50	3.00	.625	1410
447T	43.06	10.00	22.50	20.00	8.94	8.50	3.375	8.25	6.88	.875	1750
447S	39.31	10.00	22.50	20.00	5.19	4.75	2.375	4.50	3.00	.625	1750
449T	48.06	12.50	27.50	25.00	8.94	8.50	3.375	8.25	6.88	.875	2100
449TS	44.31	12.50	27.50	25.00	5.19	4.75	2.375	4.50	3.00	.625	2100

FRAME	AA	AB	AC	AF	PROT	AE
445T	4"	24.63	18.63	7.00	12.00	11.00
447S	4"	24.63	18.63	7.00	12.00	11.00
447T	4"	24.63	18.63	7.00	12.00	11.00
447S	4"	24.63	18.63	7.00	12.00	11.00
449T	4"	24.63	18.63	7.00	12.00	11.00
449TS	4"	24.63	18.63	7.00	12.00	11.00

- (1) SPECIAL DIMENSIONS ON THIS LINE
(2) "D" VARIES +.00, -.06
(3) "U" & "U" VARY +.00, -.001
(4) 445 FRAME HAS ONE EYEBOLT
CENTERLINE OF FRAME.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED. STANDARD DOUBLE SHAFT SUPPLIED ONLY WHEN SPECIFIED. 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.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHANGING TO CORRECT TITLE	VERSION: 02	TDR: 000000752338
REV. LTR: B	REVISED: 01:05:26 06/27/2012	BY: RAGRA
FILE: \RAG\00012\166		
MTL: -		

BALDOR
DIM SHEET PROT 445T-449TS ABV/NEMA - SPCL C/BOX - 14X14X12
SH 1 of 1

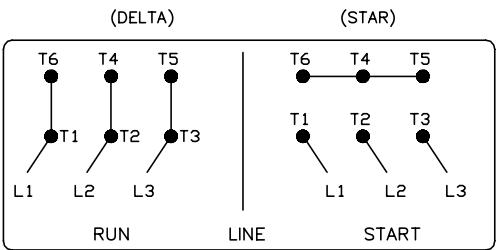
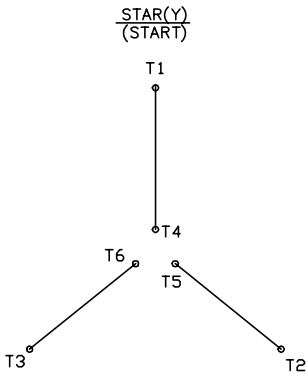
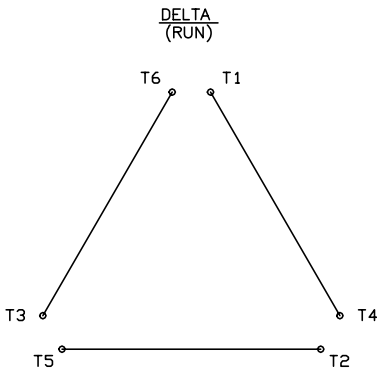
FRAME- _____ TYPE- _____ CERTIFIED FOR- _____
ORDER- _____ ITEM- _____ HP- _____ RPM- _____ PH- _____ HZ- _____ VOLTS- _____
SALES ORDER- _____ APPROVED BY- _____ DATE _____

082-698909

416820-008

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN



(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10: 41: 26 04/08/2014	BY: RAGJSS1
MTL: –		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN
SH 1 of 1

416820-008

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>