

BALDOR® • RELIANCE

Product Information Packet

EM251452T-4

450HP,3570RPM,3PH,60HZ,449TS,A44112M,DP

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A44112M	Elec. Spec:	A44WG2693	CD Diagram:	416820-008
Enclosure:	DP	Mfg Plant:		Mech. Spec:		Layout:	604989-050
Frame:	449TS	Mounting:	F1	Poles:	02	Created Date:	02-09-2015
Base:		Rotation:	R	Insulation:	B	Eff. Date:	06-10-2015
Leads:	6#1 (02 per group)					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2496L		
MOBIL POLYREX EM		

Nameplate NP2349L

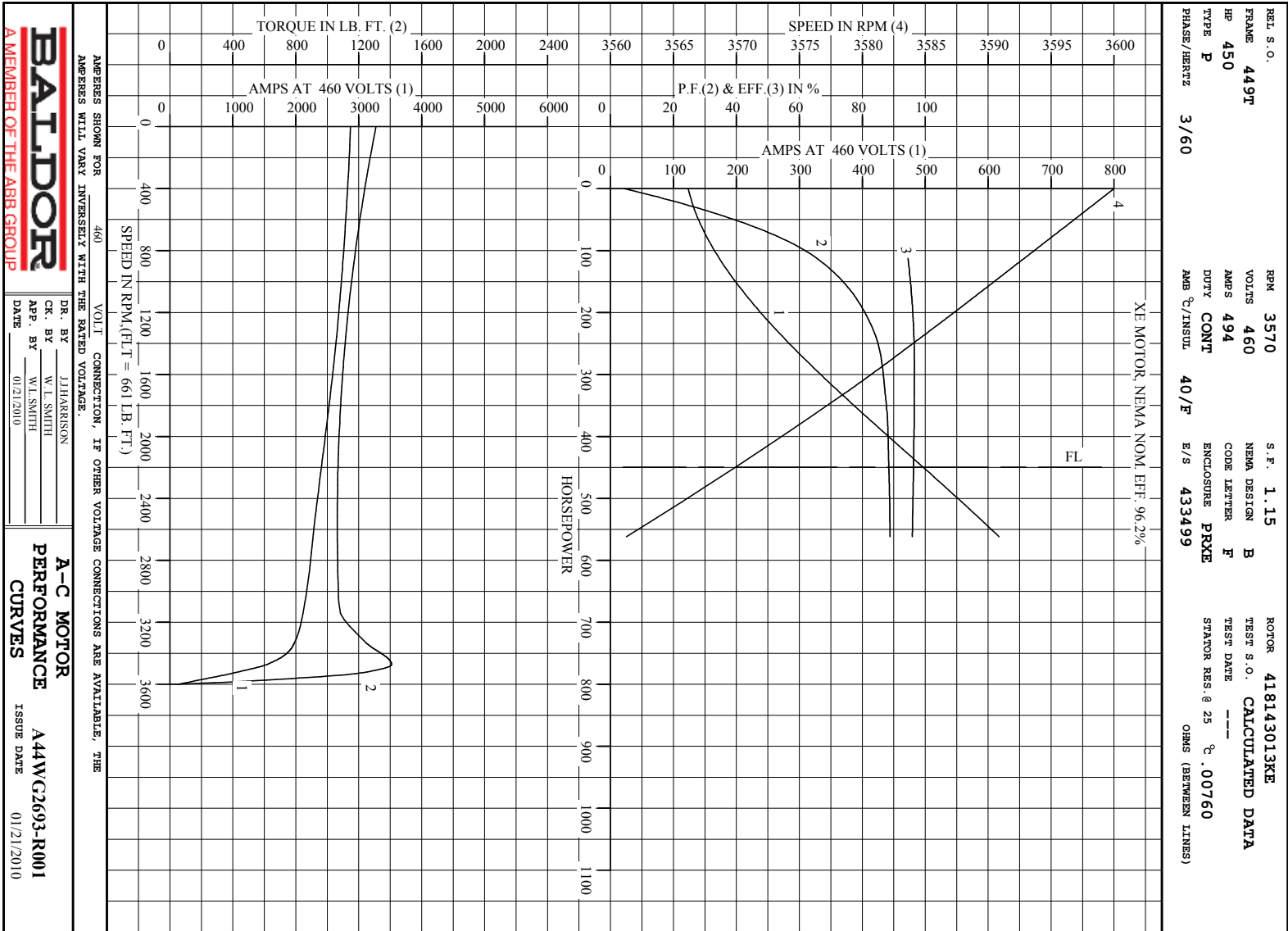
SPEC NO.	A44-6799-2693			CAT.NO.	EM251452T-4			FRAME	449TS		
HP	450		VOLTS	460		PHASE	3	DESIGN	B	TYPE	P
RPM	3570		AMPS	494		HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03J30X			DUTY	CONT		INSUL.CLASS	F			
OPP D.E. BEARING	65BC03J30X			ENCL	DP		CODE	F			
SER.NO.				POWER FACTOR	88		NEMA-NOM-EFFICIENCY	96.2			
							MAX CORR KVAR	75		GUARANTEED EFFICIENCY	95.4
							NEMA NOM/CSA QUOTED EFF				
							MOTOR WEIGHT	2088			

Parts List		
Part Number	Description	Quantity
SA293487	SA A44-6799-2693	1.000 EA
RA279583	RA A44-6799-2693	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
089438082A	BRKT 440 089438081WCB	1.000 EA
004824015A	GREASE POLYREX EM	0.540 LB
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 EA
410700004F	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
405851012AB	SPACE	4.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 EA
089438082A	BRKT 440 089438081WCB	1.000 EA
702611001A	BAFFL 440 SUB PAINT	1.000 EA
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
702658001B	+C/BOX, PAINTED 440	1.000 EA
702658002A	+C/BOX CVR, PAINTED 440	1.000 EA
406056008A	GASKET, 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
048897010DG	PLUG,ODE BRKT - 360	1.000 EA
048977006J	GRFTG - 440	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 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
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
	449T	450	P	3/60	3570	460
AMPS	DUTY	AMB ^{°C} / INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
494	CONT	40/F	1.15	B	F	PRXE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
433499	418143013KE	---	---	.00760		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	124	3600	4.41	0	
1/4	113	170	3593	65.6	94.5	
2/4	225	263	3586	83.2	96.3	
3/4	337	374	3578	87.4	96.5	
4/4	450	494	3570	88.4	96.3	
5/4	562	618	3561	88.8	95.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	198	1310	2870		
PULL UP	2550	161	1064	2300		
BREAKDOWN	3472	213	1409	1539		
FULL LOAD	3570	100	661	494		
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. 96.2%						
BALDOR A MEMBER OF THE ABB GROUP		DR. BY <u>J.J. HARRISON</u> CK. BY <u>W.L. SMITH</u> APP. BY <u>W.L. SMITH</u> DATE <u>01/21/2010</u>		A-C MOTOR PERFORMANCE DATA A44WG2693-R001 ISSUE DATE <u>01/21/20</u>		

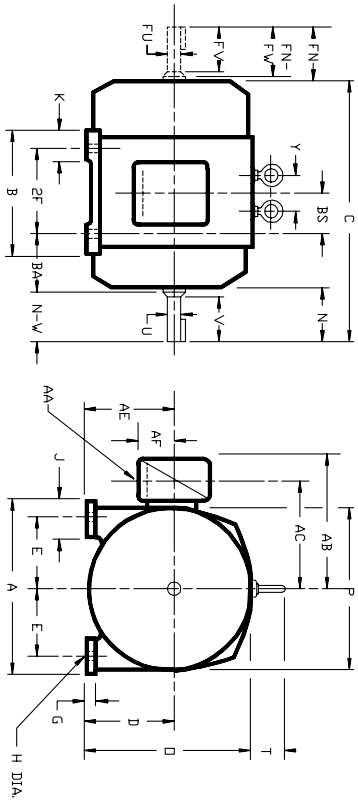


604989-050

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIREL-CAGE INDUCTION
ENCLOSURE: PROTECTED & WEATHERPROTECTED I
TOTALLY ENCLOSED
COOLING: SELF-VENTILATED
NON-VENTILATED
MOUNTING: FOOT

FRAMES 445T THRU 449TS ABOVE NEMA RATINGS



DIMENSIONS ARE IN INCHES

FRAME	A	D(2)	E	G	H	J	D	P	BA	K	T	Y (6)
445T	21.00	11.00	9.00	1.12	.81	3.25	23.62	24.25	7.50	5.25	3.25	---
445TS	21.00	11.00	9.00	1.12	.81	3.25	23.62	24.25	7.50	5.25	3.25	---
447T	21.00	11.00	9.00	1.12	.81	3.25	24.25	24.25	7.50	3.25	4.25	5.00
447TS	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-V	U(3)	V	LGTH	SO	FN	FN-FV	FV(2)	FV	LGTH	KEY	SO	V/T
445T	39.56	8.25	19.00	16.50	8.94	8.50	3.375	8.25	6.88	8.75	6.31	5.88	2.375	5.62	4.25	6.25	14.0	---
445TS	39.81	8.25	19.00	16.50	5.19	4.75	2.375	4.50	3.00	6.25	5.19	4.75	2.375	4.50	3.00	6.25	14.0	---
447T	43.06	10.00	22.50	20.00	8.94	8.50	3.375	8.25	6.88	8.75	6.31	5.88	2.375	5.62	4.25	6.25	17.30	---
447TS	39.31	10.00	22.50	20.00	5.19	4.75	2.375	4.50	3.00	6.25	5.19	4.75	2.375	4.50	3.00	6.25	17.30	---
449T	48.06	12.50	27.50	25.00	8.94	8.50	3.375	8.25	6.88	8.75	6.31	5.88	2.375	5.62	4.25	6.25	21.00	---
449TS	44.31	12.50	27.50	25.00	5.19	4.75	2.375	4.50	3.00	6.25	5.19	4.75	2.375	4.50	3.00	6.25	21.00	---

FRAME	AA	AE	STANDARD
445T	12.00	11.00	22.75
445TS	12.00	11.00	22.75
447T	12.00	11.00	22.75
447TS	12.00	11.00	22.75
449T	12.00	11.00	22.75
449TS	12.00	11.00	22.75

- (1) SPECIAL DIMENSIONS ON THIS LINE
- (2) *P VARIES +.00, -.06
- (3) *U & *FV VARY +.00, -.001
- (4) WEATHERPROOF CONDUIT BOX SUPPLIED ONLY WHEN SPECIFIED
- (5) DIMENSIONS SHOWN ARE FOR PROTECTED MOTORS,
FOR TENV MOTORS *AB=23.37, *AC=18.12
- (6) 445 FRAME HAS ONE EYEBOLT C₁ OF FRAME.
- CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1,
V-4, V-5, V-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 ROUNDOFF WHEN MEASURED AT END
OF STANDARD SHAFT EXTENSION IS .003 T.I.R.

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

050-686409

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

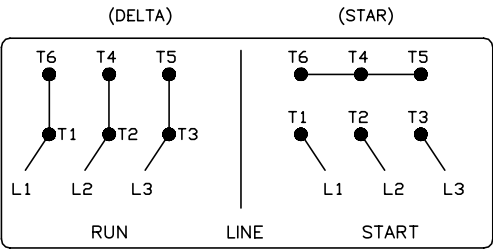
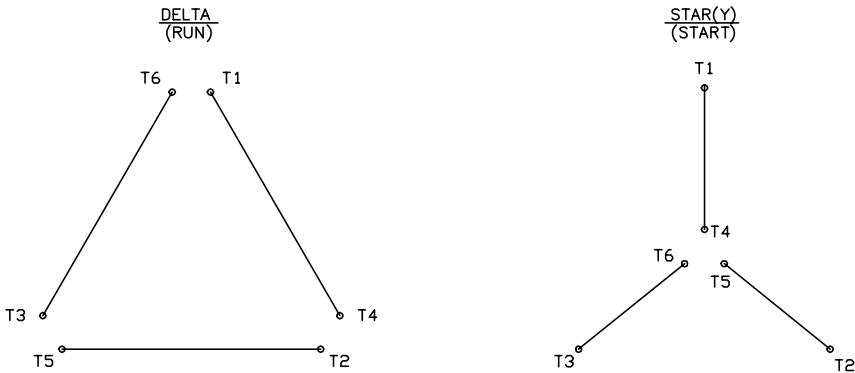
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MTL: -		

BALDOR
DIM SHEET PROT/WEATHER TENV 445T-449TS ABOVE NEMA
SH 1 of 1

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

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

Marketing maintained PDF of MN416:

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