

BALDOR® • RELIANCE

Product Information Packet

EM4338T

30HP,890RPM,3PH,60HZ,364T,TEFC,F1

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A36050M	Elec. Spec:	A36WG0999	CD Diagram:	416820-002
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	611740-001-SH1
Frame:	364T	Mounting:	F1	Poles:	08	Created Date:	01-13-2015
Base:		Rotation:	R	Insulation:	B	Eff. Date:	09-29-2016
Leads:	3#6,6#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2496L

MOBIL POLYREX EM

Nameplate NP2383L

CAT.NO.	EM4338T	SPEC NO.	A36-6049-0999
HP	30	AMPS	78.6/39.3
FRAME	364T	RPM	890
DRIVE END BEARING	65BC03J30X	HZ	60
OPP D.E. BEARING	65BC03J30X	AMB	40
SER.NO.		SF	1.15
		INSUL.CLASS	F
		PHASE	3
		DUTY	CONT
		TYPE	P
		ENCL	TEFC
		CODE	G
		POWER FACTOR	77
		NEMA-NOM-EFFICIENCY	92.4
		MAX CORR KVAR	10
		GUARANTEED EFFICIENCY	91
NEMA NOM/CSA QUOTED EFF		MOTOR WEIGHT	813

Parts List		
Part Number	Description	Quantity
SA292076	SA A36-6049-0999	1.000 EA
RA278195	RA A36-6049-0999	1.000 EA
421948032	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
000692000VD	LABEL WARNING	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
415072001B	CLAMP	1.000 EA
078559001A	+FANCV - 360	1.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
412118006A	DRAIN	1.000 EA
078557001F	FAN KB 110/50 (60) 360	1.000 EA
004824015A	GREASE POLYREX EM	0.540 LB
032018012DK	HHCS 1/2-13X1-1/2 PLTD.	4.000 EA
032018008AK	HHCS 1/4-20X1 PLATED	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
410700004F	WSHR	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
032018012DK	HHCS 1/2-13X1-1/2 PLTD.	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
415045002E	SLGR	1.000 EA
412118006A	DRAIN	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
077176000L	C/BOX, PAINTED 360-400	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
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
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 EA
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 EA
032509020C	CARRIAGE BOLT - 360	3.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.375 GA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA

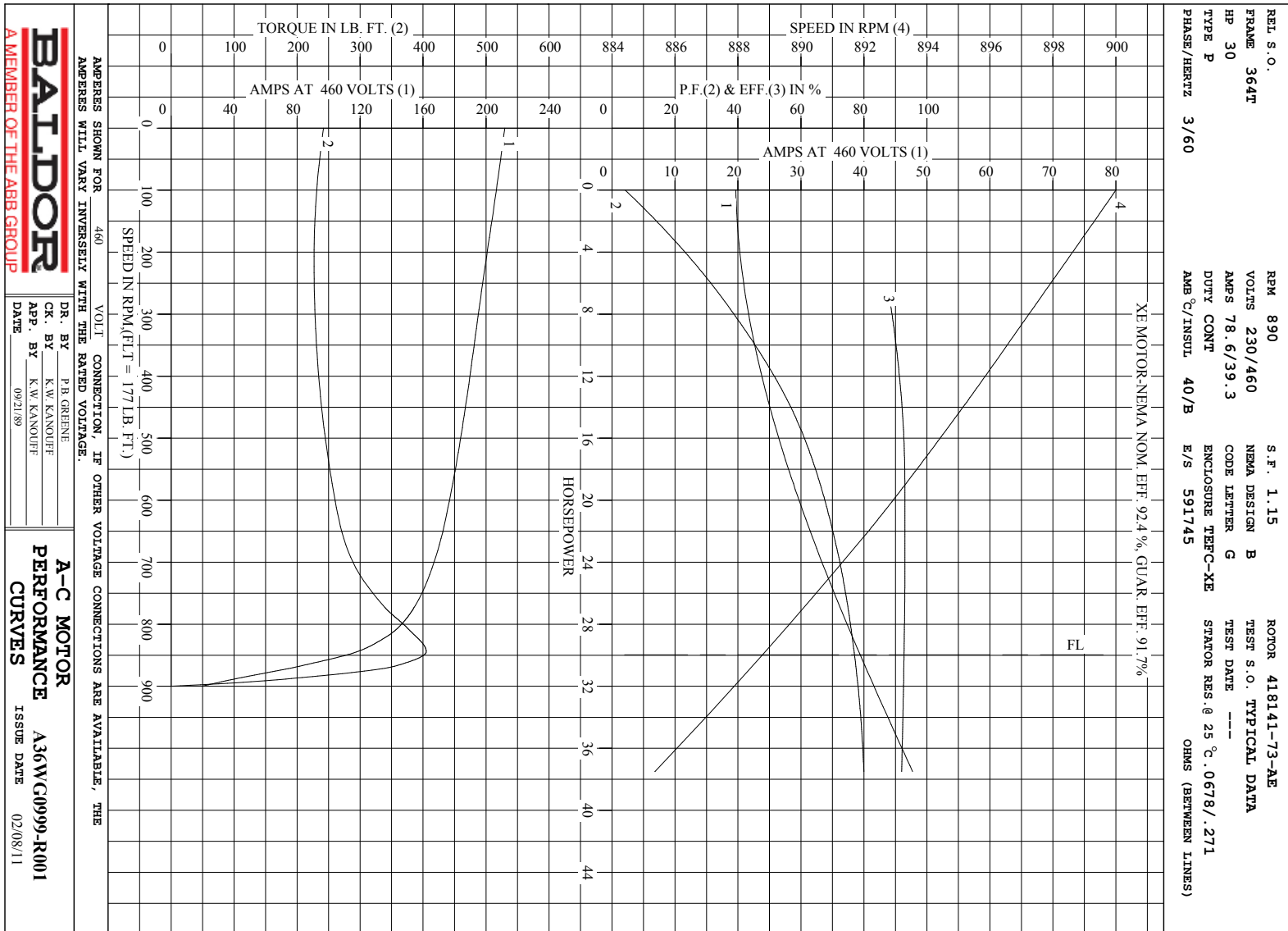
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	30	P	3/60	890	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
78.6/39.3	CONT	40/B	1.15	B	G	TEFC-XE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
591745	418141-73-AE	---	---	.0678/.271		

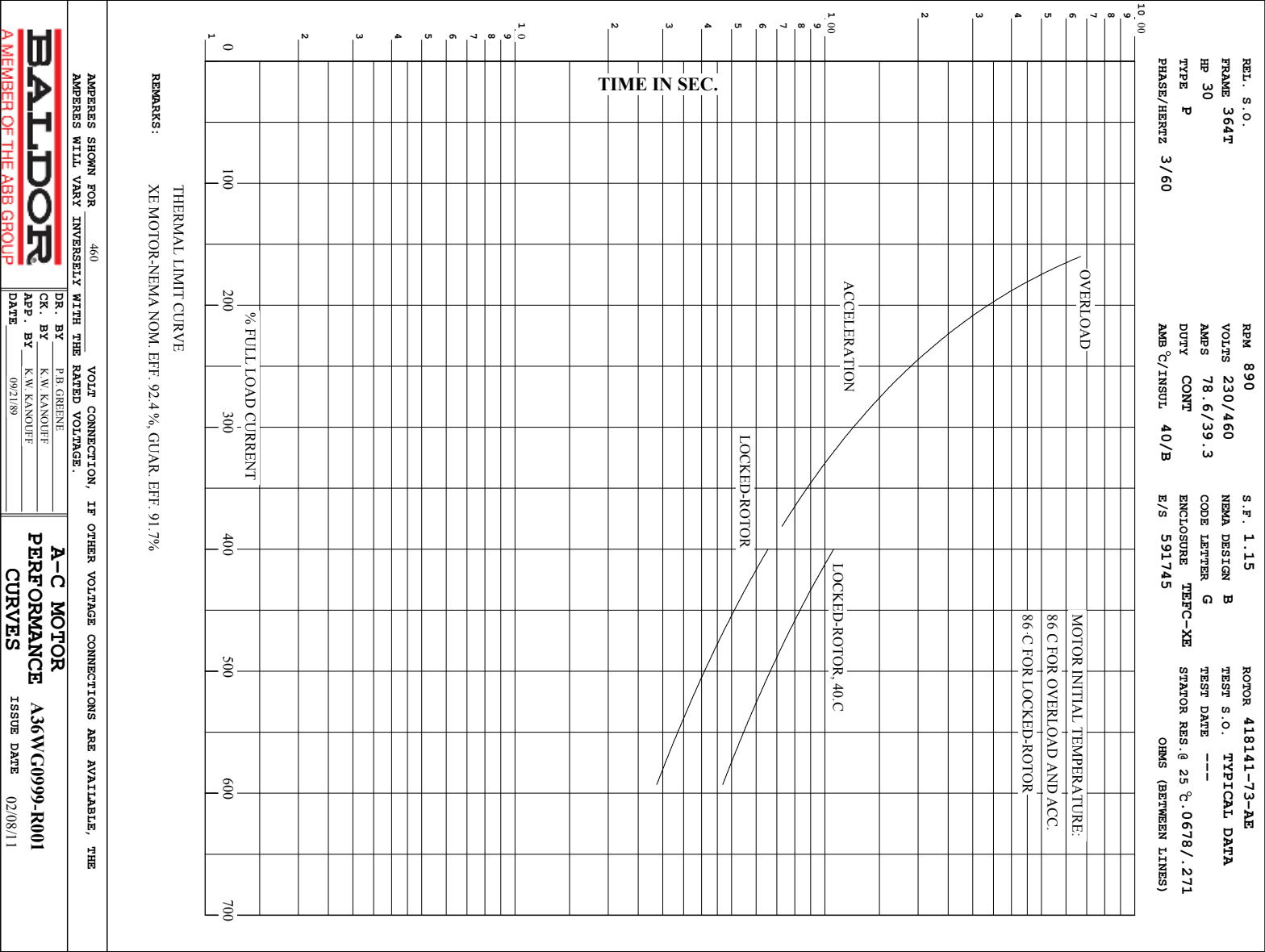
PERFORMANCE					
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	19.7	900	4.21	0
1/4	7.52	21.5	897	37.0	88.6
2/4	15.0	25.7	895	59.1	92.4
3/4	22.5	32.0	892	70.7	93.0
4/4	30.0	39.3	889	77.0	92.7
5/4	37.5	47.8	885	80.0	92.0
SPEED TORQUE					
LOCKED ROTOR		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
		0	137	242	212
PULL UP		213	128	227	200
BREAKDOWN		844	229	405	118
FULL LOAD		889	100	177	39.3

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 92.4 %, GUAR. EFF. 91.7%

BALDOR A MEMBER OF THE ABB GROUP		DR. BY P.B. GREENE CK. BY K.W. KANOUFF APP. BY K.W. KANOUFF DATE 09/21/89	A-C MOTOR PERFORMANCE DATA A36WG0999-R001 ISSUE DATE 02/08/11
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611740-001-SH1

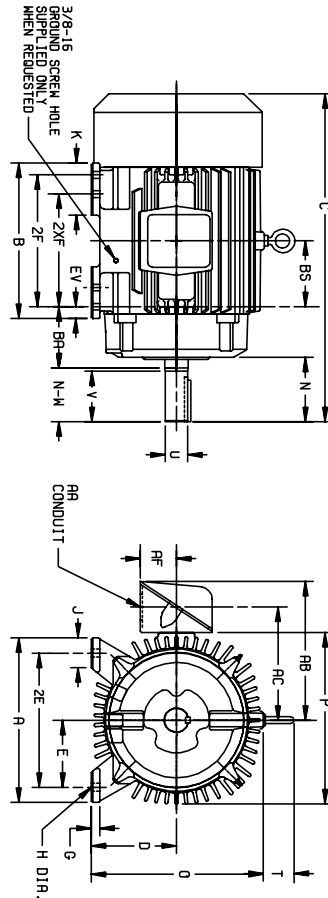
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

COOLING: FAN COOLED

FRAMES 250T THRU 440T



DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME SIZE	A	D(2)	E	G	H	J	K	O	P	T	AA	AB	AC	AF	BA	EV
254T-256T	12.50	6.25	5.00	7.5	5.6	2.50	---	13.25	13.25	2.44	1-1/4	10.75	8.75	2.50	4.25	1.00
264T-266T	13.75	7.00	5.50	---	7.5	5.6	2.50	---	14.75	14.88	2.44	1-1/2	12.75	10.00	3.19	1.00
284T	27.44	5.50	13.00	---	---	---	---	---	8.8	6.8	2.75	4.50	16.69	17.00	2.44	2
324T-326T	13.50	8.00	6.25	8.8	6.8	2.75	4.50	16.69	17.00	2.44	2	15.19	11.44	4.25	5.25	1.38
364T-366T	17.00	9.00	7.00	8.8	6.8	2.75	3.88	18.50	19.50	2.94	3	18.06	14.00	5.38	5.88	1.38
404T-406T	19.00	10.00	8.00	11.2	8.1	3.25	4.62	21.31	22.50	2.94	3	19.31	15.25	5.38	6.62	1.13
444T-446T	21.00	11.00	9.00	11.2	8.1	3.25	5.25	23.38	25.25	3.25	3	23.38	18.12	6.50	7.50	1.25

FRAME SIZE	C	BS	B	2F	(4)	N	N-W(6)	U(3)	V	SQ.	LGTH.	WEIGHT
												IBS. (5)
254T	24.56	5.00	12.00	---	8.25	4.12	4.00	1.625	3.75	3.75	2.88	305
264T	24.56	5.00	12.00	10.00	---	4.12	4.00	1.625	3.75	3.75	2.88	315
284T	27.44	5.50	13.00	---	9.50	5.00	4.62	1.875	4.50	3.00	3.25	435
284T	26.06	5.50	13.00	---	9.50	3.62	3.25	1.875	4.50	3.00	3.25	435
286T	27.44	5.50	13.00	11.00	---	5.00	4.62	1.875	4.50	3.00	3.25	450
286T	26.06	5.50	13.00	11.00	---	3.62	3.25	1.875	4.50	3.00	3.25	450
324T	30.44	6.00	14.75	---	10.50	5.62	5.25	2.125	5.00	3.00	3.88	540
324T	28.94	6.00	14.75	---	10.50	4.12	3.75	1.875	3.50	3.00	2.00	540
326T	30.44	6.00	14.75	12.00	---	5.62	5.25	2.125	5.00	3.00	3.88	560
326T	28.94	6.00	14.75	12.00	---	4.12	3.75	1.875	3.50	3.00	2.00	560
364T	33.44	6.12	15.00	---	11.25	6.25	5.88	2.375	5.62	3.00	4.25	800
364T	31.51	6.12	15.00	---	11.25	4.12	3.75	1.875	3.50	3.00	2.00	794
366T	33.44	6.12	15.00	12.25	---	6.25	5.88	2.375	5.62	3.00	4.25	840
366T	31.51	6.12	15.00	12.25	---	4.12	3.75	1.875	3.50	3.00	2.00	834
404T	38.31	6.88	16.00	---	12.25	7.50	7.25	2.875	7.00	3.50	5.62	1120
404T	36.31	6.88	16.00	---	12.25	4.50	4.25	2.125	4.00	3.00	2.75	1111
405T	38.31	6.88	16.00	---	12.25	7.50	7.25	2.875	7.00	3.50	5.62	1160
405T	36.31	6.88	16.00	13.75	---	4.50	4.25	2.125	4.00	3.00	2.75	1151
444T	44.62	8.25	19.00	---	14.50	8.94	8.50	3.375	8.25	4.50	6.88	1540
444T	40.88	8.25	19.00	---	14.50	5.19	4.75	2.375	4.50	3.00	6.25	1524
446T	44.62	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	4.50	6.88	1730
446T	40.88	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	3.00	6.25	1714

(1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.

(2) "D" VARIES — 250T + .00, — .03.
— 360T + .00, — .06.(3) "U" VARIES — UP TO 1.625 DIA. + .0000, — .0005
— 1.625 AND LARGER + .000, — .001.

(4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.

(5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

(6) "N-W" VARIES + .00, — .25.

FRAME— TYPE— CERTIFIED FOR—
 ORDER— ITEM— HP— RPM— PH— HZ— VOLTS—
 RELIANCE SALES ORDER— APPROVED BY— DATE—

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

REV. DESC: UPDATE TITLE SHEET 2

REV. LTR: B

VERSION: 02

TDR: 000000498266

FILE: \RAG\00000\167

REVISED: 07:05:46 04/29/2009

MTL: —

BY: RAGEC

Baldor • Dodge • Reliance

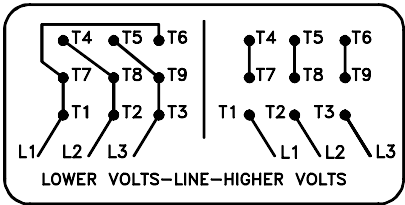
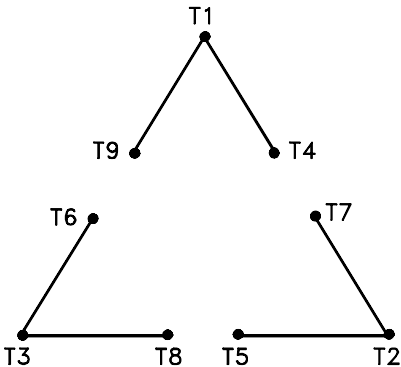
DIM SHEET 250T THRU 440T

SH 1 of 1

611740-001-SH1

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\661		REVISED: 10: 47: 51 04/30/2010
MTL: -		BY: RAGRA

BALDOR
CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
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>