

BALDOR® • RELIANCE

Product Information Packet

EFM4316T

75HP,1780RPM,3PH,60HZ,365T,A36068M,TEFC

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A36068M	Elec. Spec:	A36WG1816	CD Diagram:	416820-002
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	611740-001-SH1
Frame:	365T	Mounting:	F2	Poles:	04	Created Date:	04-19-2013
Base:		Rotation:	R	Insulation:	F	Eff. Date:	09-26-2016
Leads:	3#4,6#6					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2383L

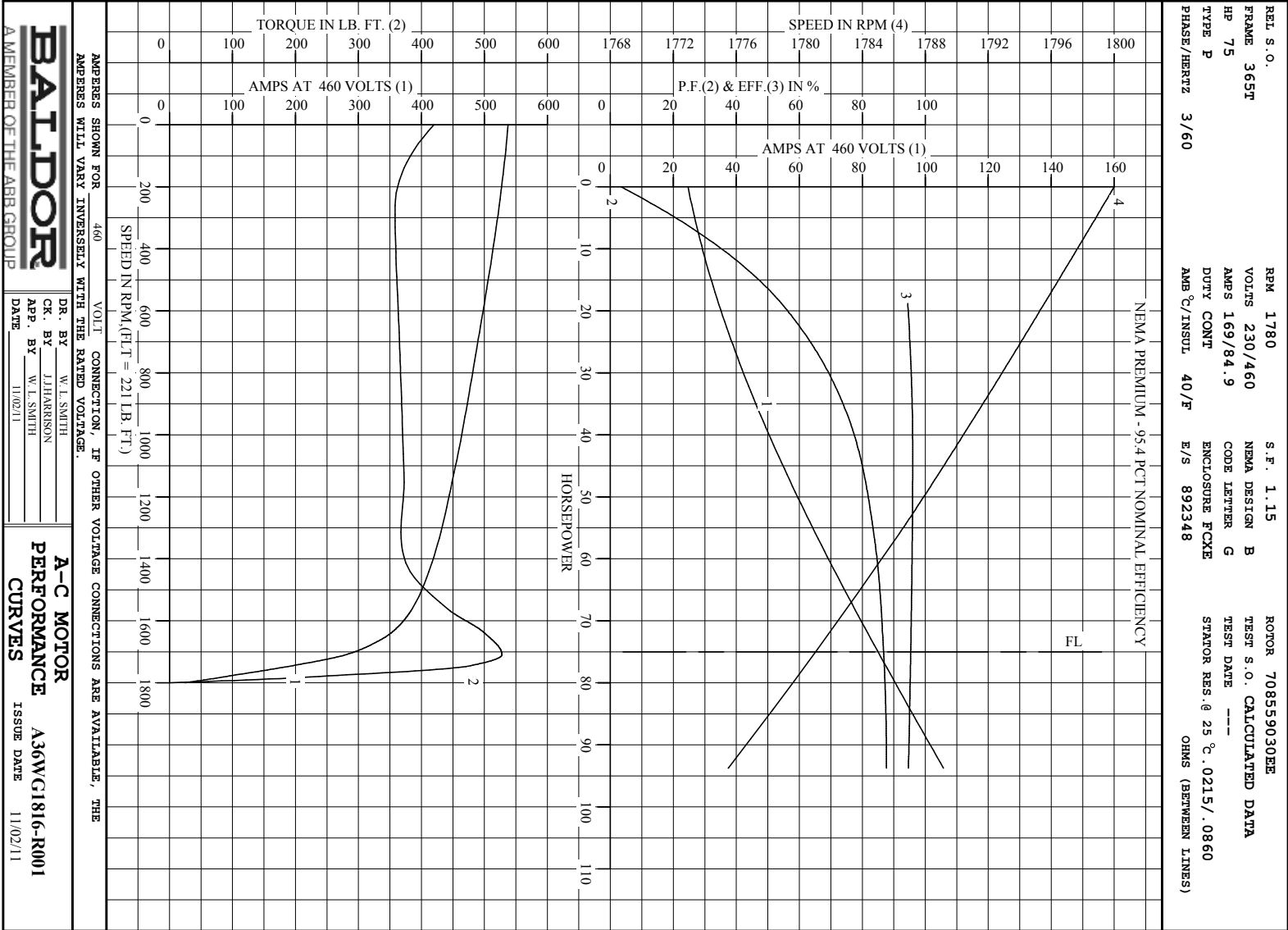
CAT.NO.	EFM4316T		SPEC NO.	A36-3394-1816	
HP	75	AMPS	169/84.9		VOLTS
					230/460
FRAME	365T	RPM	1780	HZ	60
				AMB	40
DRIVE END BEARING	65BC03J30X		PHASE	3	DUTY
					CONT
OPP D.E. BEARING	65BC03J30X		TYPE	P	ENCL
					TEFC
SER.NO.			POWER FACTOR	87	CODE
					G
	SUIT FOR 208V @ 186 AMPS		NEMA-NOM-EFFICIENCY		95.4
			MAX CORR KVAR		14.0
NEMA NOM/CSA QUOTED EFF			GUARANTEED EFFICIENCY		94.5
			MOTOR WEIGHT		935

Nameplate NP2496L

MOBIL POLYREX EM

Parts List		
Part Number	Description	Quantity
SA261836	SA A36-3394-1816	1.000 EA
RA248574	RA A36-3394-1816	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABLE	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
421948032	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	0.544 LB
032018008AK	HHCS 1/4-20X1 PLATED	4.000 EA
032018012DK	HHCS 1/2-13X1-1/2 PLTD.	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
078559001A	+FANCV - 360	1.000 EA
410700004F	WSHR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
702676001C	FAN 360 - 56 PCS	1.000 EA
032018012DK	HHCS 1/2-13X1-1/2 PLTD.	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
077176000L	C/BOX, PAINTED 360-400	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.250 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
415045002E	SLGR	1.000 EA
415045002E	SLGR	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	1.000 EA



611740-001-SH1

DUTY MASTER ALTERNATING CURRENT MOTORS

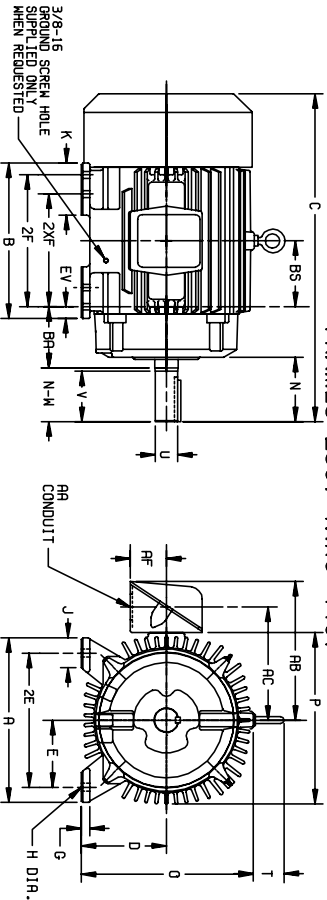
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

COOLING: FAN COOLED

MOUNTING: FOOT

FRAMES 250T THRU 440T



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

FRAME	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	---	---	---	---	9.50	4.50	18.69	17.00	2.44	2	15.19	11.44	4.25
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-365T	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-405T	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-445T	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	C	BS	B	2F	(4)	N	N-W(6)	U(3)	V	SQ	LGTH	WEIGHT
254T	24.56	5.00	12.00	---	8.25	4.12	4.00	1.625	3.75	3.75	2.88	3.05
264T	24.56	5.00	12.00	10.00	---	4.12	4.00	1.625	3.75	3.75	2.88	3.15
284T	27.44	5.50	13.00	---	9.50	4.50	4.50	1.875	4.38	4.38	3.25	4.38
284T	26.06	5.50	13.00	---	9.50	3.62	3.25	1.875	4.38	3.00	3.75	3.68
286T	27.44	5.50	13.00	11.00	---	9.00	4.62	1.875	4.38	3.00	3.75	3.25
286T	26.06	5.50	13.00	11.00	---	9.00	3.62	1.875	4.38	3.00	3.75	3.68
324T	30.44	6.00	14.75	---	10.50	5.62	5.25	2.125	5.00	3.00	3.00	5.40
324T	28.94	6.00	14.75	---	10.50	4.12	3.75	1.875	3.50	3.00	2.00	5.80
326T	30.44	6.00	14.75	12.00	---	5.62	5.25	2.125	5.00	3.00	3.00	5.80
326T	28.94	6.00	14.75	12.00	---	4.12	3.75	1.875	3.50	3.00	2.00	5.80
364T	33.44	6.12	15.00	---	11.25	6.25	5.88	2.375	5.62	6.25	4.25	8.00
364T	31.51	6.12	15.00	---	11.25	4.12	3.75	1.875	3.50	3.00	2.00	7.94
365T	33.44	6.12	15.00	12.25	---	6.25	5.88	2.375	5.62	6.25	4.25	8.40
365T	31.51	6.12	15.00	12.25	---	4.12	3.75	1.875	3.50	3.00	2.00	8.34
404T	38.31	6.88	16.00	---	12.25	7.50	7.25	2.875	7.00	7.50	5.62	11.00
404T	36.31	6.88	16.00	---	12.25	4.50	4.25	2.125	4.00	5.00	2.75	11.60
405T	38.31	6.88	16.00	13.75	---	7.50	7.25	2.875	7.00	7.50	5.62	11.60
405T	36.31	6.88	16.00	13.75	---	4.50	4.25	2.125	4.00	5.00	2.75	11.60
444T	44.62	8.25	19.00	---	14.50	8.94	8.50	3.375	8.25	8.75	6.88	15.40
444T	40.88	8.25	19.00	---	14.50	5.19	4.75	2.375	4.50	6.25	3.00	15.24
445T	44.62	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	8.75	6.88	17.50
445T	40.88	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	6.25	3.00	17.14

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES — 250T + .00, — .03.
- (3) "U" VARIES — UP TO 1.625 DIA. + .0000, — .0005.
- (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— RPM— PH— HZ— VOLTS—

ORDER— ITEM— HP— APPROVED BY— DATE—

RELIANCE SALES ORDER—

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

REV. DESC: UPDATE TITLE SHEET 2	TDR: 000000498266
REV. LTR: B	VERSION: 02
FILE: \RAG\00000\167	REVISED: 07:05:46 04/29/2009
MTL: —	BY: RAGEC

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DIM SHEET 250T THRU 440T

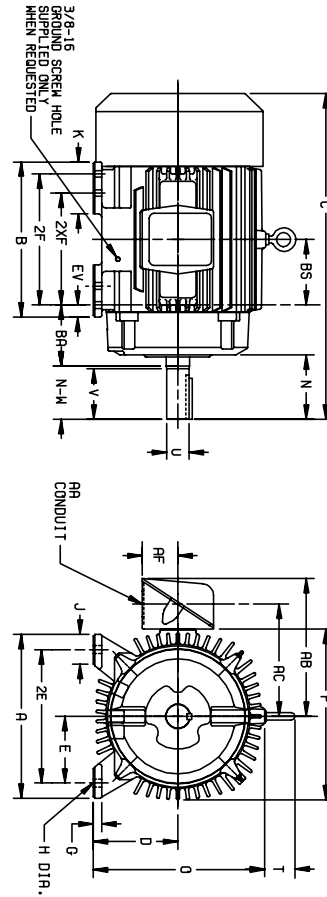
SH 1 of 1

611740-001-SH2

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTIONENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

COOLING: FAN COOLED

FRAMES 250T THRU 440T



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

FRAME	A	D/2	E	G	H	J	K	O	P	T	AA/2	AB	AC	AF	BA	EV
254T-256T	317.5	158.8	127.0	19.0	14.2	63.5	--	336.5	336.5	62.0	-1/4	273.0	222.3	63.5	108.0	25.4
264T-266T	349.2	177.8	139.7	19.0	14.2	63.5	--	374.6	376.0	62.0	-1/2	323.8	254.0	81.0	120.7	25.4
324T-326TS	393.7	203.2	158.8	22.4	17.5	69.9	114.3	423.9	431.8	62.0	2	385.8	290.6	108.0	133.3	35.1
364T-365TS	431.8	228.6	177.8	22.4	17.5	69.9	98.6	469.9	492.3	74.7	3	456.7	355.6	136.7	149.4	35.1
404T-405TS	482.6	254.0	203.2	28.4	20.6	82.5	117.3	541.3	571.5	74.7	3	490.5	387.3	136.7	168.1	28.7
444T-445TS	533.4	279.4	228.6	28.4	20.6	82.5	133.3	593.9	641.3	82.5	3	593.9	460.2	165.1	190.5	31.7

FRAME	C	BS	B	ZF	(4)	N	N-W(6)	U(3)	V	SC	LGTH	WEIGHT
254T	623.8	127.0	304.8	---	209.6	104.6	41.27	95.3	9.52	73.2	138	138
264T	623.8	127.0	304.8	254.0	---	104.6	101.6	41.27	95.3	9.52	73.2	142
284T	697.0	139.7	330.2	---	241.3	127.0	117.3	47.63	11.3	12.70	82.5	197
284TS	661.9	139.7	330.2	---	241.3	91.9	82.5	41.27	76.2	9.52	47.8	197
286T	697.0	139.7	330.2	279.4	---	127.0	117.3	47.63	11.3	12.70	82.5	204
286TS	661.9	139.7	330.2	279.4	---	91.9	82.5	41.27	76.2	9.52	47.8	204
324T	773.2	152.4	374.6	---	266.7	142.7	133.3	53.97	127.0	12.70	98.6	244
324TS	735.1	152.4	374.6	---	266.7	104.6	95.3	47.63	88.9	12.70	50.8	263
326T	773.2	152.4	374.6	304.8	---	142.7	133.3	53.97	127.0	12.70	98.6	263
326TS	735.1	152.4	374.6	304.8	---	104.6	95.3	47.63	88.9	12.70	50.8	263
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33	142.7	15.88	108.0	362
364TS	795.3	155.4	381.0	---	285.7	104.6	95.3	47.63	88.9	12.70	50.8	360
365T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33	142.7	15.88	108.0	362
365TS	795.3	155.4	381.0	---	285.7	104.6	95.3	47.63	88.9	12.70	50.8	360
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02	177.8	19.05	142.7	508
404TS	896.9	174.8	406.4	---	311.1	114.3	108.0	53.97	101.6	12.70	69.9	503
405T	973.1	174.8	406.4	349.2	---	190.5	184.1	73.02	177.8	19.05	142.7	526
405TS	896.9	174.8	406.4	349.2	---	114.3	108.0	53.97	101.6	12.70	69.9	522
444T	1133.3	209.6	482.6	---	368.3	227.1	215.9	85.72	209.6	22.22	174.8	698
444TS	1038.4	209.6	482.6	---	368.3	131.8	120.7	60.33	114.3	15.88	76.2	691
445T	1133.3	209.6	482.6	419.1	---	227.1	215.9	85.72	209.6	22.22	174.8	784
445TS	1038.4	209.6	482.6	419.1	---	131.8	120.7	60.33	114.3	15.88	76.2	777

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1,
W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.
- (2) "D" VARIES — 250T - 320T +0, -8.
360T - 440T +0, -1.5.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT
FACTORY.
- (3) "U" VARIES — 41.27 AND LARGER +0.0, -0.3
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED
AT END OF STD. SHAFT EXTENSION IS .05 T.I.R. UP TO
AND INCLUDING 41.27 DIA. AND .08 T.I.R. 41.27 DIA.
TO 127.00 MILL. DIA.
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL
MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +0, -6.4.
- (7) DIMENSIONS ARE IN INCHES.

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

REV. LTR: B

VERSION: 02

TDR: 000000498266

FILE: \RAG\00000\168

REVISED: 14:03:30 04/28/2009

MTL: —

BY: RAGEC

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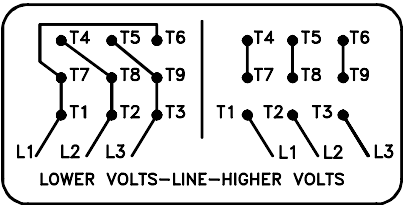
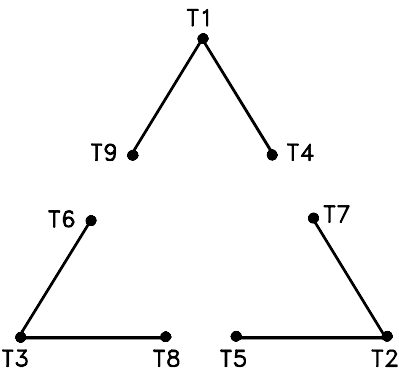
DIM SHEET 250T THRU 440T METRIC

SH 1 of 1

611740-001-SH2

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>