

BALDOR® • RELIANCE

Product Information Packet

M2569T-4

300HP,1780RPM,3PH,60HZ,445T,1888M,OPEN

Part Detail							
Revision:	C	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A44072M	Elec. Spec:	A44WG0619	CD Diagram:	416820-008
Enclosure:	PROT	Mfg Plant:		Mech. Spec:		Layout:	611750-501
Frame:	445T	Mounting:	F1	Poles:	04	Created Date:	10-19-2010
Base:		Rotation:	R	Insulation:	F	Eff. Date:	05-04-2011
Leads:	6#2 (02 per group)					Replaced By:	P44G4428
Literature:		Elec. Diagram:					

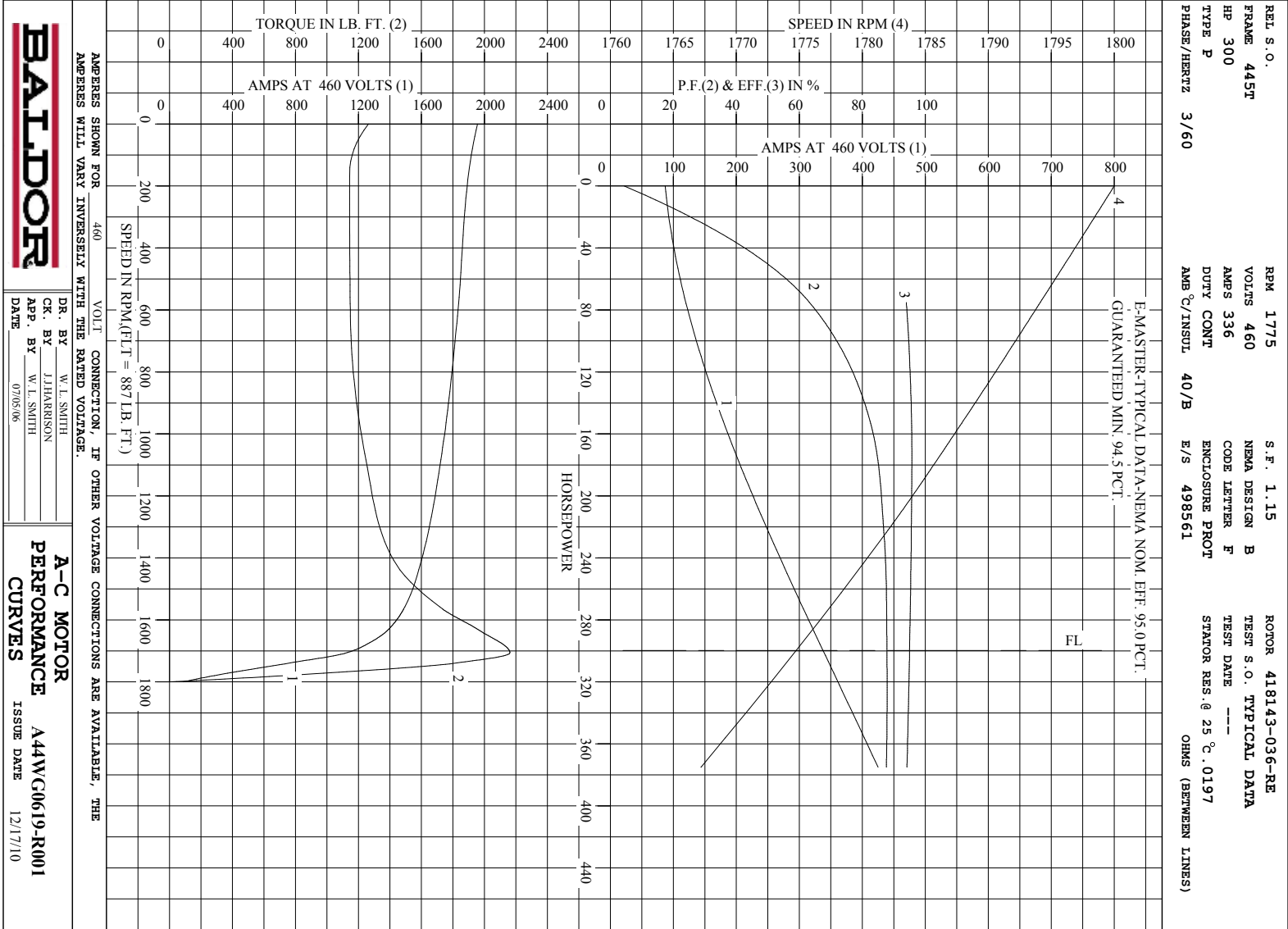
Nameplate NP2301L										
CAT.NO.		SPEC NO.	P44G4419							
HP	300	AMPS	336	VOLTS	460	DESIGN	B			
FRAME	445T	RPM	1775	HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	90BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	F			
OPP D.E. BEARING	90BC03J30X	TYPE	P	ENCL	PROT	CODE	F			
SER.NO.		POWER FACTOR	87.8	NEMA-NOM-EFFICIENCY	95					
		MAX CORR KVAR	55.0	GUARANTEED EFFICIENCY	94.5					
		NEMA NOM/CSA QUOTED EFF								
		MOTOR WEIGHT								

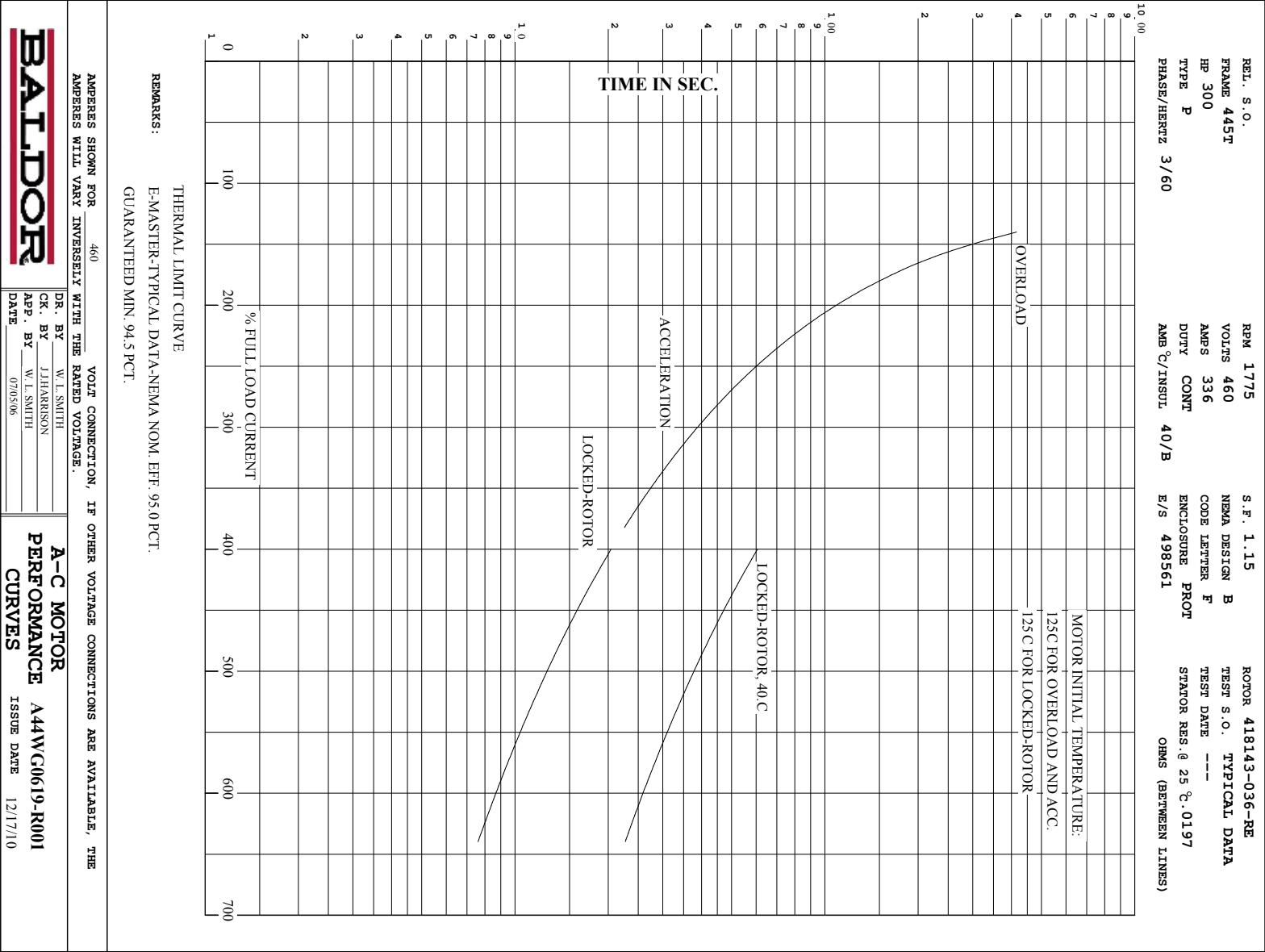
Parts List		
Part Number	Description	Quantity
SA209258	SA P44G4419	1.000 EA
RA196520	RA P44G4419	1.000 EA
613-6PU	N/P UL CSA LABLE	1.000 EA
NP2301L	BALDOR RELIANCE INDUSTRIAL MTR, SS,	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
421948044	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	1.156 LB
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
089439051A	BRKT 440 089439051WCB	1.000 EA
410700004A	WSHR	1.000 EA
032018008BK	HHCS 5/16-18X1L PLATED	4.000 EA
032018008DK	HHCS 1/2-13X1 PLATED	4.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
089439051A	BRKT 440 089439051WCB	1.000 EA
415045002A	SLGR	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
702611001A	BAFFL 440 SUB PAINT	1.000 EA
702611001A	BAFFL 440 SUB PAINT	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018028EK	HHCS 5/8-11X3-1/2L PLTD	4.000 EA
032018036DK	HHCS 1/2-13X4-1/2 PLTD.	3.000 EA
033512006LB	HHTTS 1/4-20X3/4 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
048897010DJ	BUSH - 445	1.000 EA
067053001C	GASK 440	1.000 EA
076863000C	+CBCST BLKT - 440	1.000 EA
076864000A	CB CVRCST BLKT - 440	1.000 EA
406056007A	GASKET, 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
MG1025G05	MEDIUM CHARCOAL METALLIC GREY	0.250 GA
418150003A	GREASE FITTING CAP	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
034180054KA	KEY 7/8X7/8X6-3/4 L	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	300	P	3/60	1775	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
336	CONT	40/B	1.15	B	F	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498561	418143-036-RE	---	---	.0197		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %	
NO LOAD	0	87.5	1800	4.37	0	
1/4	75.2	118	1794	63.2	94.0	
2/4	150	179	1788	82.2	95.6	
3/4	225	254	1782	86.9	95.6	
4/4	300	336	1775	87.8	95.0	
5/4	375	425	1767	87.6	94.2	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	142	1263	1956	
PULL UP		159	129	1144	1900	
BREAKDOWN		1706	244	2162	1124	
FULL LOAD		1775	100	887	336	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA E-MASTER-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT. GUARANTEED MIN. 94.5 PCT.						
BALDOR		DR. BY W. L. SMITH CK. BY J.J.HARRISON APP. BY W. L. SMITH DATE 07/05/06		A-C MOTOR PERFORMANCE A44WG0619-R001 DATA ISSUE DATE 12/17/10		

Printed on 12/17/10 0:18 @ psecs-motorer

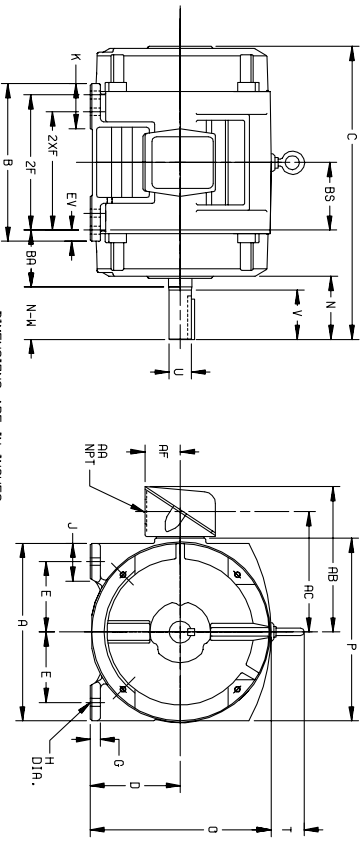




611750-501

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: PROTECTED
MOUNTING: FOOT
FRAMES 250T THRU 440T
COOLING: SELF-VENTILATED



DIMENSIONS ARE IN INCHES															
FRAME	A	DIG2	E	G	H	J	K	D	P	T	CAST IRON TERMINAL BOX				
254T-256T	12.50	6.25	5.00	6.9	5.6	2.25	3.50	12.61	12.69	2.44	1-1/4	10.25	8.25	2.50	4.25
284T-286TS	14.00	7.00	5.50	7.5	5.6	2.75	3.75	14.12	14.31	2.44	1-1/2	12.06	9.62	3.19	4.75
324T-326TS	15.75	8.00	6.25	8.8	6.9	3.12	4.00	16.10	16.42	2.44	2	14.75	11.00	3.62	5.25
364T-365TS	17.00	9.00	7.00	8.8	6.9	3.00	3.62	18.30	19.56	2.94	3	18.00	13.81	4.12	5.88
404T-405TS	19.00	10.00	8.00	11.2	81	3.25	4.75	20.56	21.81	2.94	3	19.00	14.81	3.12	6.62
444T-445TS	21.00	11.00	9.00	11.2	81	3.25	5.25	22.91	23.62	3.25	3	21.44	16.69	5.00	7.50

FRAME	SIZE	C	BS	B	2F	(4)		SHAFT AND KEY					WEIGHT LBS. (3)
						2XF	N	N-W(6)	U(3)	V	S.O.	LGTH.	
254T	22.44	5.00	11.25	---	8.25	4.25	4.00	1.625	3.75	3.75	2.75	2.65	2.75
256T	22.44	5.00	11.25	10.00	---	4.25	4.00	1.625	3.75	3.75	2.75	2.75	2.75
284T	24.94	5.50	13.00	---	9.50	4.88	4.62	1.875	4.38	5.00	3.25	3.40	3.40
284TS	23.56	5.50	13.00	---	9.50	3.50	3.25	1.625	3.00	3.75	1.88	3.70	3.70
286T	24.94	5.50	13.00	11.00	---	4.88	4.62	1.875	4.38	5.00	3.25	3.70	3.70
286TS	23.56	5.50	13.00	11.00	---	3.50	3.25	1.625	3.00	3.75	1.88	3.70	3.70
324T	27.56	6.00	14.00	---	10.50	5.50	5.25	2.125	5.00	5.00	3.75	4.80	4.80
324TS	26.06	6.00	14.00	---	10.50	4.00	3.75	1.875	5.00	5.00	2.00	4.80	4.80
326T	27.56	6.00	14.00	12.00	---	5.50	5.25	2.125	5.00	5.00	3.75	5.20	5.20
326TS	26.06	6.00	14.00	12.00	---	4.00	3.75	1.875	5.00	5.00	2.00	5.20	5.20
364T	29.70	6.12	14.25	---	11.25	6.12	5.88	2.375	5.62	6.25	4.25	7.35	7.35
364TS	27.58	6.12	14.25	12.25	---	6.12	5.88	2.375	5.62	6.25	4.25	7.75	7.75
365TS	27.58	6.12	14.25	12.25	---	4.00	3.75	1.875	7.00	7.50	5.50	10.45	10.45
404T	34.00	6.88	16.00	---	12.25	---	7.62	2.875	7.00	7.50	5.50	10.45	10.45
404TS	31.00	6.88	16.00	13.75	---	12.25	7.62	2.875	7.00	7.50	5.50	10.85	10.85
405TS	34.00	6.88	16.00	13.75	---	7.62	7.25	2.875	7.00	7.50	5.50	10.85	10.85
444T	39.56	8.25	19.00	---	14.50	---	8.94	3.375	8.25	8.75	6.88	17.95	17.95
444TS	35.81	8.25	19.00	16.50	---	14.50	8.94	3.375	8.25	8.75	6.88	17.90	17.90
445T	39.56	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	8.75	6.88	17.90	17.90
445TS	35.81	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	6.25	3.00	17.70	17.70

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE. CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-M-1, V-4-M-5-M-7, OR C-1 MOUNTING IS SPECIFIED.
 - (2) "P" VARIES -250T - 320T +.00, -.03. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
 - (3) "U" VARIES +.000, -.001.
 - (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING. MAXIMUM PERMISSIBLE SHAFT ROUNDT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 TIR UP TO AND INCLUDING 1625 DIA. AND .003 TIR. ABOVE 1625 TO 5 INCH DIA.
 - (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
 - (6) "N-V" VARIES +.00, -.25.
- FRAME-_____TYPE-_____CERTIFIED FOR-_____
ORDER-_____ITEM-_____HP-_____RPM-_____PH-_____HZ_____VOLTS_____
SALES ORDER-_____APPROVED BY-_____DATE_____

105-057119

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

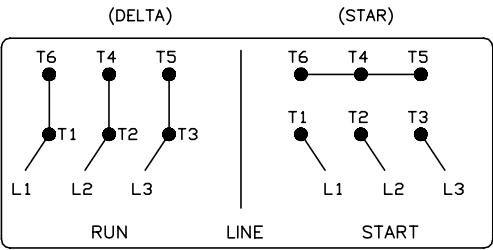
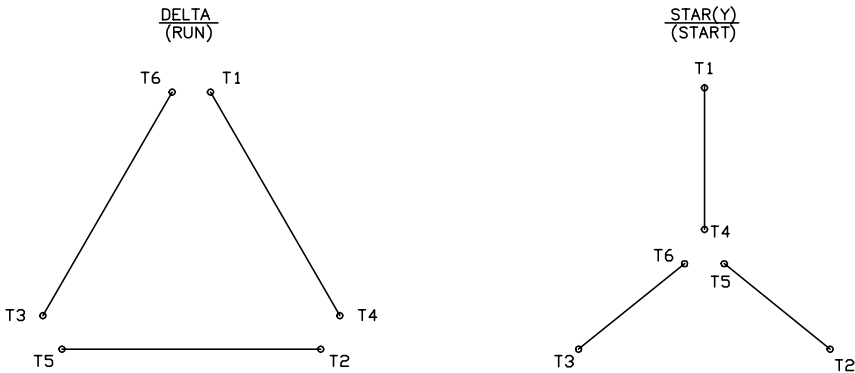
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REV. LTR: A	REVISED: 03:18:49 06/22/2010	BY: RAGHZT
FILE: \RAG\00009\279		
MTL: -		

BALDOR
DIM SHT-250T-440T
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

Marketing maintained PDF of MN408:

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

Marketing maintained PDF of MN416:

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