

BALDOR® • **RELIANCE**

Product Information Packet

ECP4316T

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

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A36070M	Elec. Spec:	A36WG0172	CD Diagram:	416820-002
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617428-034
Frame:	365T	Mounting:	F1	Poles:	04	Created Date:	10-19-2010
Base:		Rotation:	R	Insulation:	F	Eff. Date:	06-08-2016
Leads:	3#4,6#6					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3238									
CAT NO	ECP4316T	SPEC NO.	P36G3364						
HP	75	AMPS	171/85.9	VOLTS	230/460	DESIGN	B		
FRAME	365T	RPM	1780	HZ	60	AMB	40	SF	1.15
D.E. BRG.DATA	6313	O.D.E. BRG.DATA	6313	PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03J30X	TYPE	P	ENCL	TEFC	CODE	G	NEMA NOM EFFICIENCY	95.4
O.D.E. BRG.	65BC03J30X	POWER FACTOR	86	MAX CORR KVAR	16.0	GUARANTEED EFFICIENCY	95.0		
3/4 LOAD EFF.	95.8	TEMP	= 200						
TEMP CODE	T3	CT HZ	30-60	VT HZ	0-60				
CHP HZ	60-90								
INVERTER-TEMP-CODE	T3								
SER.NO.		MOTOR WEIGHT	958						

Parts List		
Part Number	Description	Quantity
SA209361	SA P36G3364	1.000 EA
RA196623	RA P36G3364	1.000 EA
NP3238	SS CP XEX SEVERE DUTY MAIN NP	1.000 EA
000692000VD	LABEL WARNING	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
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
078559034A	+F/C A 078559001A - 360	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
410700004F	WSHR	1.000 EA
415045002E	SLGR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
418151057A	PLASTIC DRAIN,ODE BRKT	1.000 EA
702676001C	FAN 360 - 56 PCS	1.000 EA
415045002E	SLGR	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
418151057A	PLASTIC DRAIN,ODE BRKT	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
065776000C	TERBD 320-400	1.000 EA
067053000B	GASK 320-400	1.000 EA
076708000BB	C/B - 360	1.000 EA
076709000A	C/B - 360	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
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 EA
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 GA
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 GA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
034530032BB	P/NIP 1/4X4" SCHED 40	1.000 EA

Product Information Packet: ECP4316T - 75HP,1780RPM,3PH,60HZ,365T,TEFC,FOOT

034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 EA
034530020BB	P/NIP 1/4X2-1/2 PLATED	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	365T	75	P	3/60	1780	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
171/85.9	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (BETWEEN LINES)		
892008	418141043EE	---	---	.0210/.0843		

PERFORMANCE

LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %
NO LOAD	0	26.1	1800	3.86	0
1/4	18.8	33.4	1796	56.1	93.8
2/4	37.5	47.7	1791	77.0	95.7
3/4	56.2	65.8	1786	83.5	95.8
4/4	75.0	85.9	1781	85.6	95.4
5/4	93.8	107	1776	86.7	94.8

SPEED TORQUE

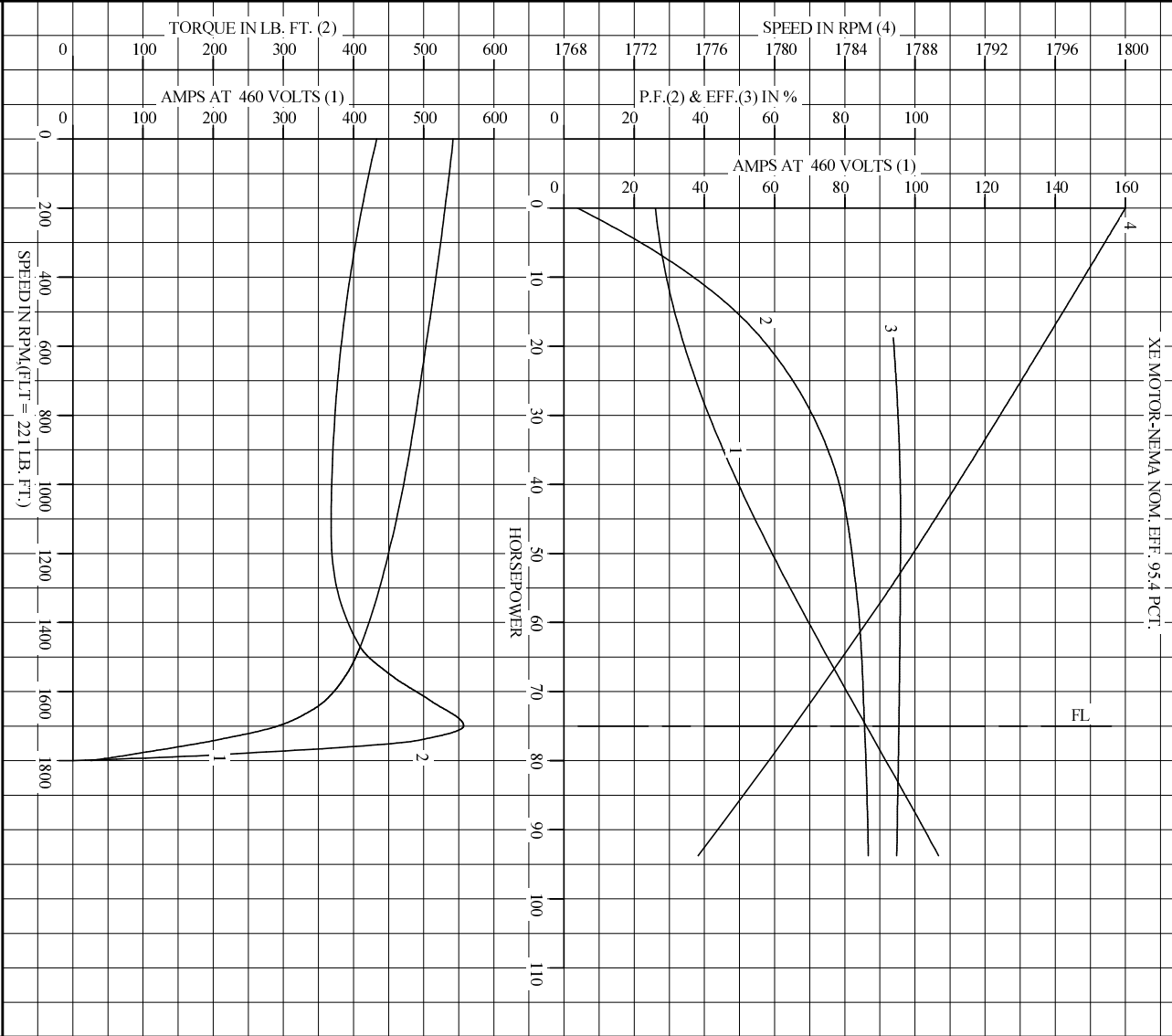
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	196	433	542
PULL UP	1130	166	368	458
BREAKDOWN	1699	252	557	293
FULL LOAD	1781	100	221	85.9

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. 95.4 PCT.

BALDOR	DR. BY	W. L. SMITH	A-C MOTOR	
	CK. BY	J. J. HARRISON		PERFORMANCE DATA
	APP. BY	W. L. SMITH		A36WG0172-R001
	DATE	12/20/05	ISSUE DATE	12/14/10

REL. S.O. _____ RPM 1780 S.F. 1.15 ROTOR 418141043EE
 FRAME 365T VOLTS 230/460 NEMA DESIGN B TEST S.O. TYPICAL DATA
 HP 75 AMPS 171/85.9 CODE LETTER G TEST DATE ---
 TYPE P DUTY CONT ENCLOSURE TEFC STATOR RES. @ 25 °C .0210/.0843
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 892008 OHMS (BETWEEN LINES)



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

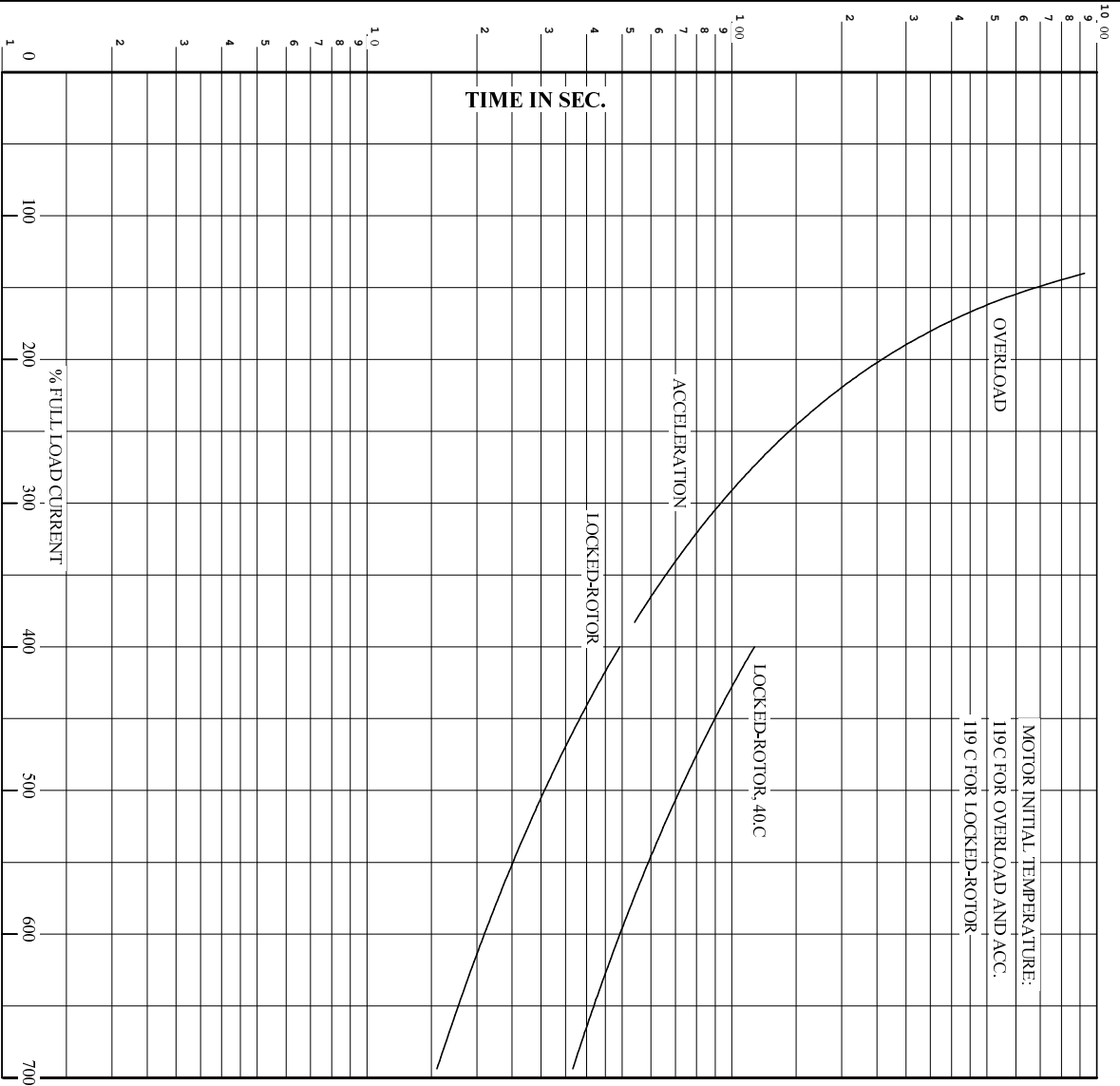
BALDOR

DR. BY W.L. SMITH
 CK. BY J.H. HARRISON
 App. BY W.L. SMITH
 DATE 12/20/05

A-C MOTOR PERFORMANCE CURVES A36WG0172-R001
 ISSUE DATE 12/14/10

Printed on 12/14/10 16:51 @ psecs-motoreng

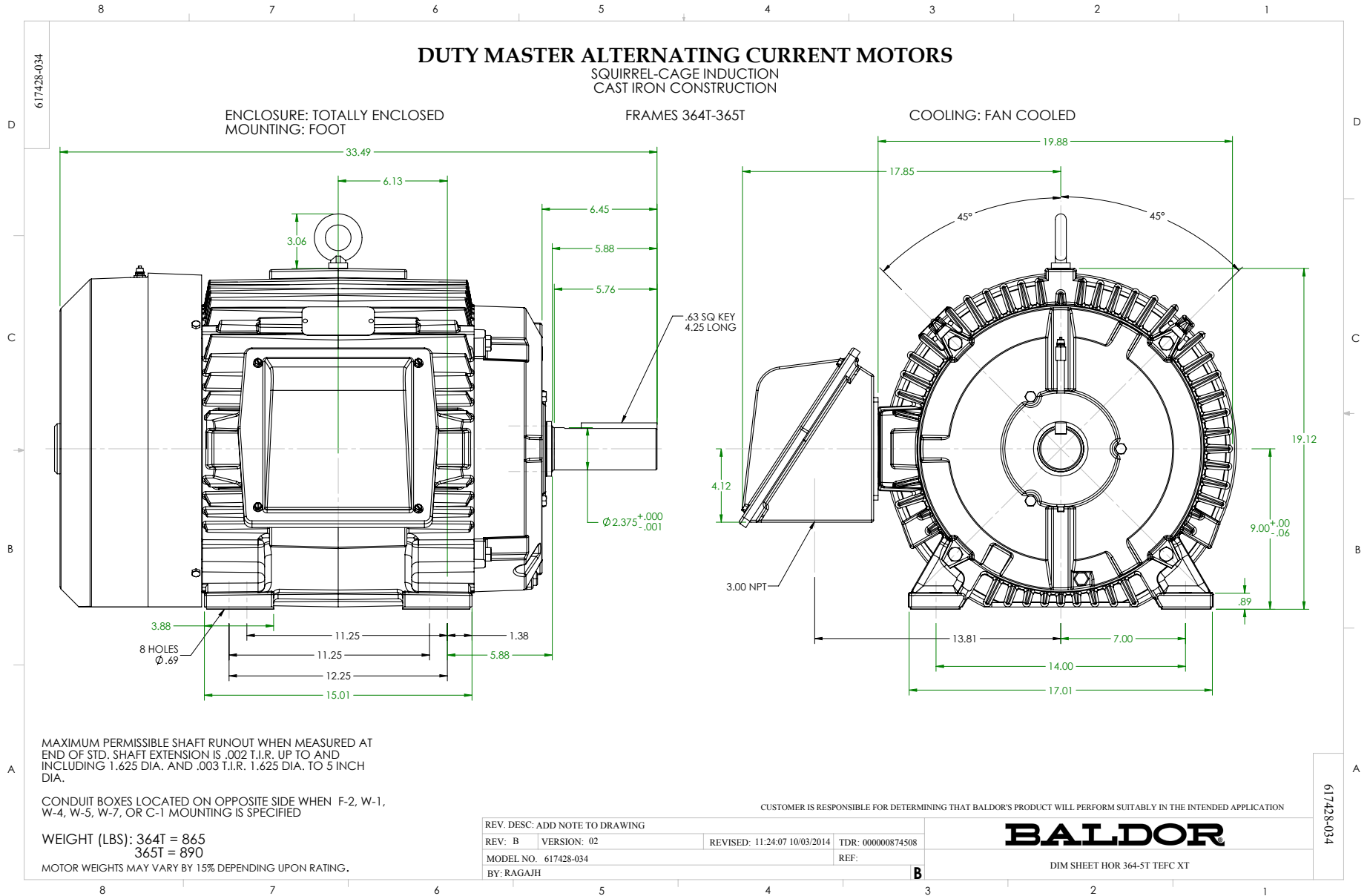
RET. S.O. RPM 1780 S.F. 1.15 ROTOR 418141043EE
 FRAME 365T VOLTS 230/460 NEMA DESIGN B TEST S.O. TYPICAL DATA
 HP 75 AMPS 171/85.9 CODE LETTER G TEST DATE ---
 TYPE P DUTY CONT ENCLOSURE TEFC STATOR RES. @ 25 °C. 0.210/.0843
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 892008 OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
 REMARKS: XE MOTOR-NEMA NOM. EFF. 95.4 PCT.

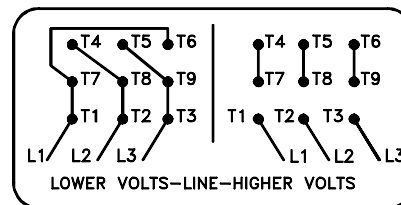
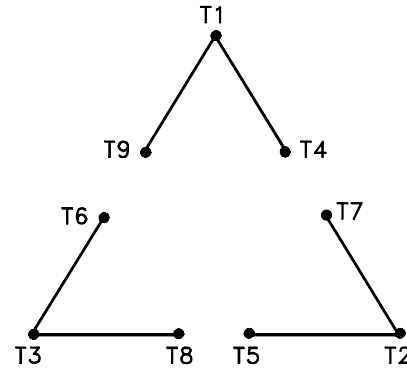
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR	DR. BY	W. L. SMITH	A-C MOTOR
	CK. BY	J. HARRISON	
	APP. BY	W. L. SMITH	PERFORMANCE
	DATE	12/20/05	CURVES
			ISSUE DATE 12/14/10



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

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