

ABB BALDOR RELIANCE III

Customer information packet

EM2544T-CI

50HP, 1185RPM, 3PH, 60HZ, 365T, 1466M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	365T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV CSA EEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	60.300 A @ 460.0 V 120.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	60.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0753
Layout	617428-130
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	06
Leads	3#6,6#8
Proprietary	False
Created date	10-19-2010

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36052M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	29.70 IN
Power Factor	83
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L															
SPEC NO.	P36G3403			CAT.NO.		EM2544T-CI				FRAME		365T			
HP	50	VOLTS		230/460		PHASE		3	DESIGN		B	TYPE	P		
RPM	1185	AMPS		120/60.3		HZ		60	AMB		40	SF	1.15		
DRIVE END BEARING	65BC03J30X			DUTY		CONT		INSUL.CLASS		F					
OPP D.E. BEARING	65BC03J30X			ENCL		DP	CODE		G						
SER.NO.				POWER FACTOR		83		NEMA-NOM-EFFICIENCY				94.1			
						MAX CORR KVAR		15.0		GUARANTEED EFFICIENCY		93.6			
						NEMA NOM/CSA QUOTED EFF									
						MOTOR WEIGHT									

Parts List

Part number	Description	Quantity
SA209370	SA P36G3403	1.000 ea
RA196632	RA P36G3403	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	4.000 ea
032376004JB	RHMS 10-32X1/2PLTD-360	3.000 ea
034001009AB	WSHR #10 PLATED-360	3.000 ea
034017009AB	LCKW NO.10 PLATED-360	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078556001A	BAFFL 360 SUB PAINT	1.000 ea
085920052A	BRKT 360 085920051WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	4.000 ea
032376004JB	RHMS 10-32X1/2PLTD-360	3.000 ea
034001009AB	WSHR #10 PLATED-360	3.000 ea
034017009AB	LCKW NO.10 PLATED-360	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078556001A	BAFFL 360 SUB PAINT	1.000 ea
085920052A	BRKT 360 085920051WCC KB	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	2.000 ea
048897010DG	PLUG,ODE BRKT - 360	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea

415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
MG1025Y17	WILKOFAST, 789.701, SUPER E PEARL GOLD	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
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
043292000AJ	GASK 320-400	1.000 ea
402731001A	GASK 360-440	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	50	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
120/60.3	CONT	40/F	1.15	B	G	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
892140	418141-70-NE	---	---	.0393/.157		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	24.8	1200	3.81	0	
1/4	12.5	28.4	1196	45.1	91.7	
2/4	25.0	36.6	1193	67.9	94.3	
3/4	37.5	47.5	1189	78.2	94.5	
4/4	50.0	60.1	1185	82.8	94.1	
5/4	62.5	74.0	1180	84.7	93.3	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	149	330	353		
PULL UP	350	122	271	322		
BREAKDOWN	1118	246	546	209		
FULL LOAD	1185	100	222	60.1		
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-TYPICAL DATA-NEMA NOM. EFF. 93.6 PCT						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE A36WG0753-R001 DATA ISSUE DATE 12/15/10		
		CK. BY	J. J. HARRISON			
		APP. BY	W. L. SMITH			
		DATE	03/03/06			

FRAME 365T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 50

AMPS 120/60.3

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

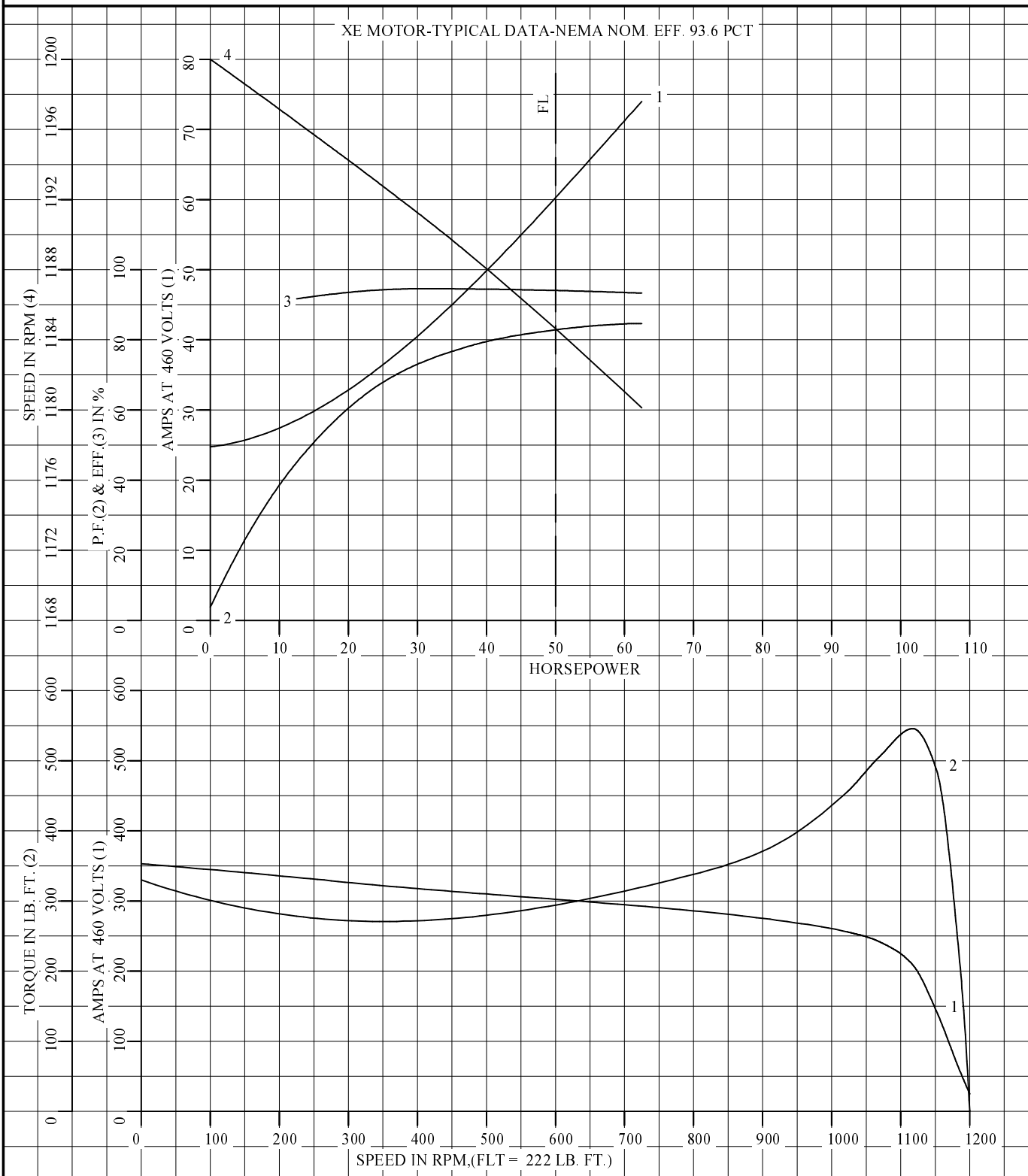
STATOR RES. @ 25 °C .0393/.157

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892140

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. J. HARRISON
APP. BY W. L. SMITH
DATE 03/03/06

**A-C MOTOR
PERFORMANCE CURVES** A36WG0753-R001
ISSUE DATE 12/15/10

REL. S.O.

RPM 1185

S.F. 1.15

ROTOR 418141-70-NE

FRAME 365T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 50

AMPS 120/60.3

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PROT

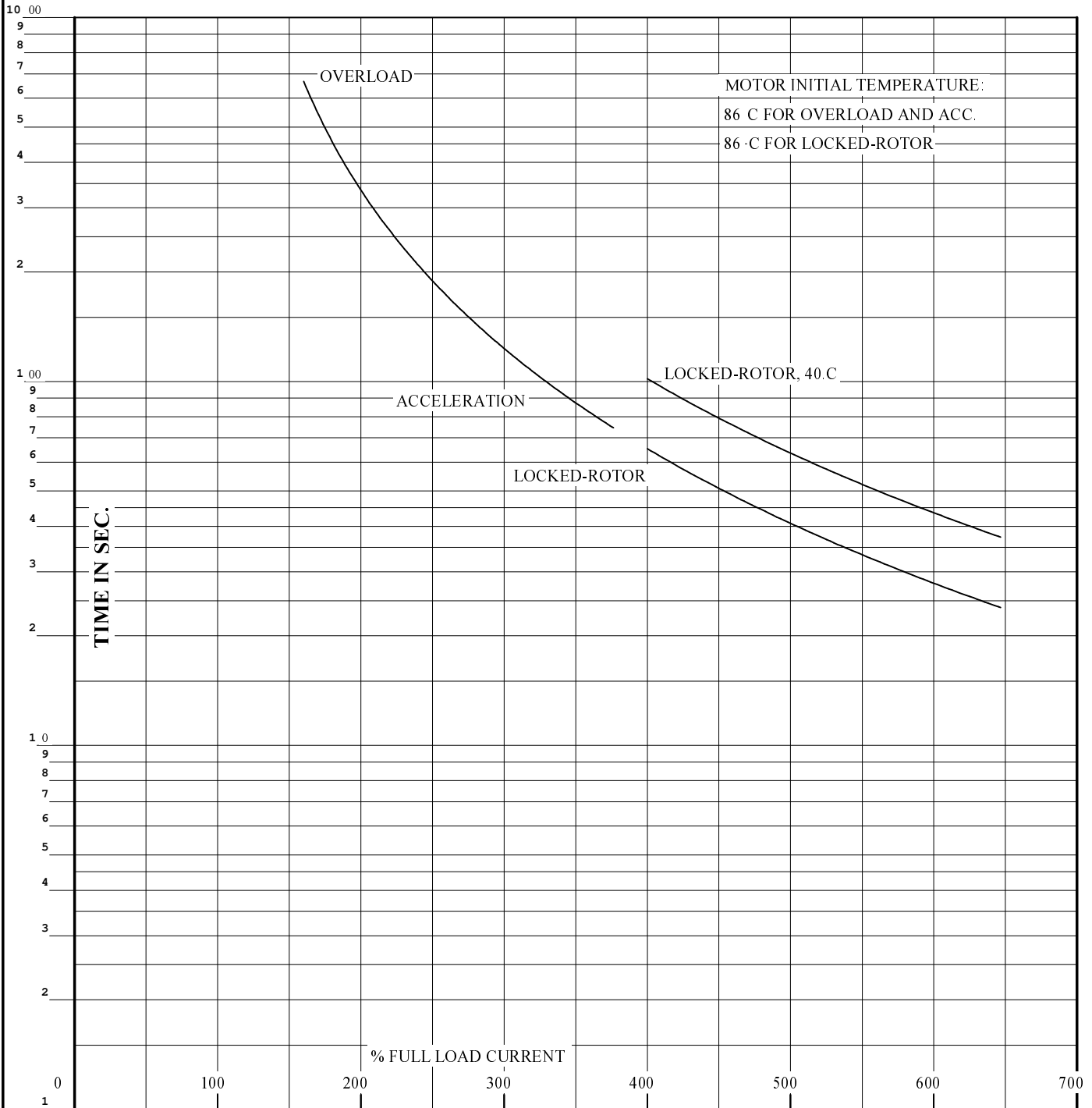
STATOR RES. @ 25 °C .0393/.157

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892140

OHMS (BETWEEN LINES)



THermal LIMIT CURVE

REMARKS:

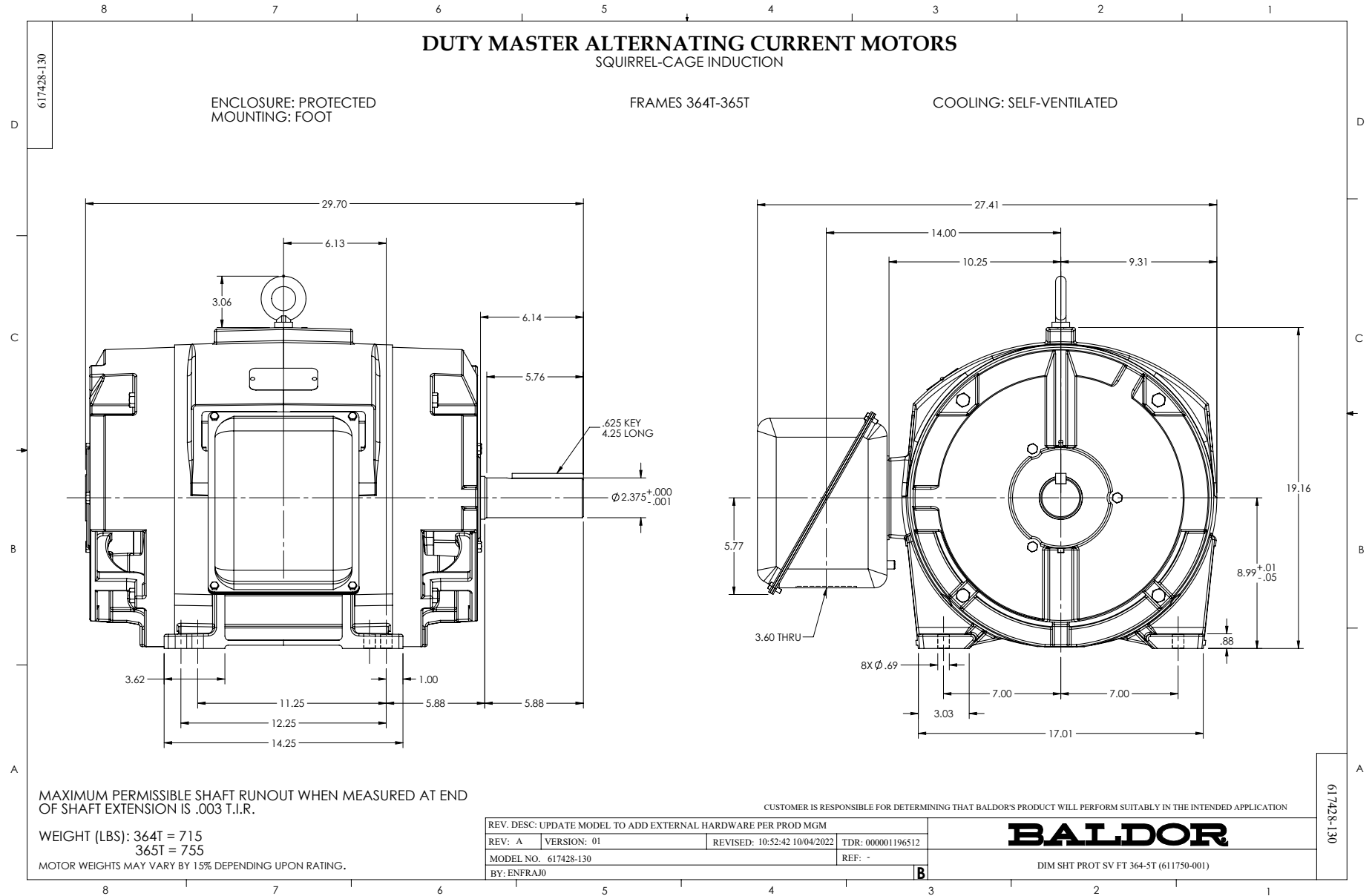
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.6 PCT

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

BALDOR

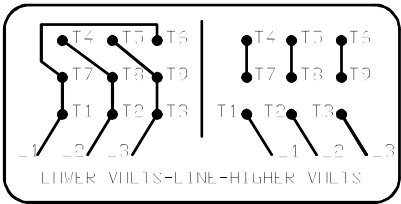
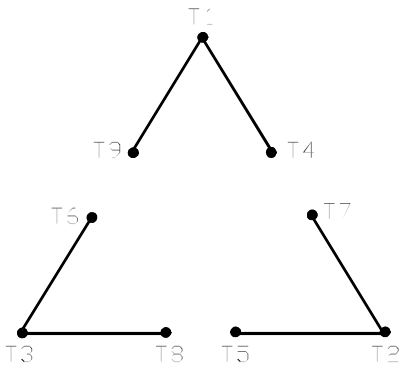
DR. BY W. L. SMITH
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DATE 03/03/06

**A-C MOTOR
PERFORMANCE
CURVES** A36WG0753-R001
ISSUE DATE 12/15/10



416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002