

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM4316T-5**

**75HP,1780RPM,3PH,60HZ,365T,1482M,TEFC,F1**

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A36WG0025	CD Diagram:	416820-036	Mfg Plant:	
Mech. Spec:		Layout:	617428-011	Poles:	04	Created Date:	10-19-2010
Base:		Eff. Date:	02-24-2017	Leads:	3#4		

Specs			
Catalog Number:	EM4316T-5	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	365T	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	G
Output @ Frequency:	75.000 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 4 AWG
Voltage @ Frequency:	575.0 V @ 60 HZ	Motor Type:	A36070M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	86
Agency Approvals:	CCSA US	Pulley End Bearing Type:	Ball
	CSA EEV	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Shaft Ground Indicator:	No Shaft Grounding
Base Indicator:	Rigid	Shaft Rotation:	Reversible
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Slinger Indicator:	No Slinger
Current @ Voltage:	68.700 A @ 575.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None

<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
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## Nameplate NP2383L

CAT.NO.	EM4316T-5	SPEC NO.	P36G3428						
HP	75	AMPS	68.7	VOLTS	575	DESIGN	B		
FRAME	365T	RPM	1780	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	F		
OPP D.E. BEARING	65BC03J30X	TYPE	P	ENCL	TEFC	CODE	G		
SER.NO.		POWER FACTOR	86	NEMA-NOM-EFFICIENCY	95.4				
NEMA NOM/CSA QUOTED EFF		MAX CORR KVAR	16	GUARANTEED EFFICIENCY	94.5				
		MOTOR WEIGHT	923						

Parts List		
Part Number	Description	Quantity
SA209406	SA P36G3428	1.000 EA
RA196667	RA P36G3428	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
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
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
415045002E	SLGR	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA
078559001A	+FANCV - 360	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
410700004F	WSHR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
702676001C	FAN 360	1.000 EA
034690002AB	PPLG 1/4" PLTD.	1.000 EA
085922073B	BRKT 360 085922072WCC KB	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
043292000AJ	GASK 320-400	1.000 EA
077176000L	C/BOX, 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
MG1025Y17	WILKOFAS, 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
421948051	LABEL, MYLAR	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	365T	75	P	3/60	1780	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
68.7	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (OHMS (BETWEEN LINES))		
892131	418141043EE	---	---	.131		

PERFORMANCE

LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %
NO LOAD	0	20.9	1800	3.86	0
1/4	18.8	26.7	1796	56.1	93.8
2/4	37.5	38.1	1791	77.0	95.7
3/4	56.2	52.7	1786	83.5	95.8
4/4	75.0	68.8	1781	85.6	95.4
5/4	93.8	85.4	1776	86.7	94.8

SPEED TORQUE

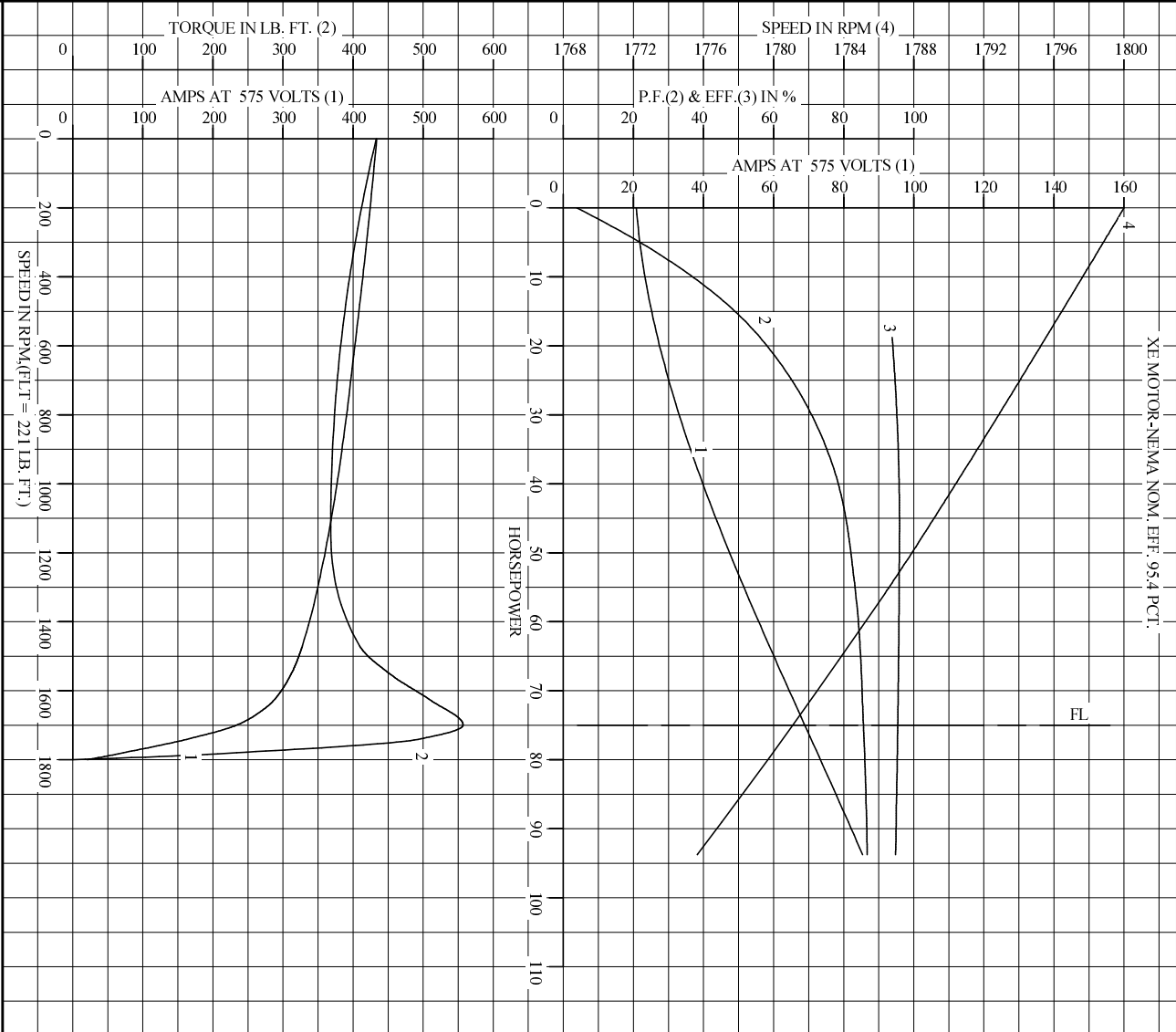
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	196	433	434
PULL UP	1130	166	368	366
BREAKDOWN	1699	252	557	234
FULL LOAD	1781	100	221	68.8

AMPERES SHOWN FOR 575. 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.

<b>BALDOR</b>	DR. BY	W. L. SMITH	<b>A-C MOTOR</b>	
	CK. BY	J. J. HARRISON		<b>PERFORMANCE</b>
	APP. BY	W. L. SMITH		<b>DATA</b>
	DATE	12/20/05	ISSUE DATE	12/15/10

REL. S.O. \_\_\_\_\_ RPM 1780 S.F. 1.15 ROTOR 418141043EE  
 FRAME 365T VOLTS 575 NEMA DESIGN B TEST S.O. TYPICAL DATA  
 HP 75 AMPS 68.7 CODE LETTER G TEST DATE ---  
 TYPE P DUTY CONT ENCLOSURE TEFC STATOR RES. @ 25 °C .131  
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 892131 OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



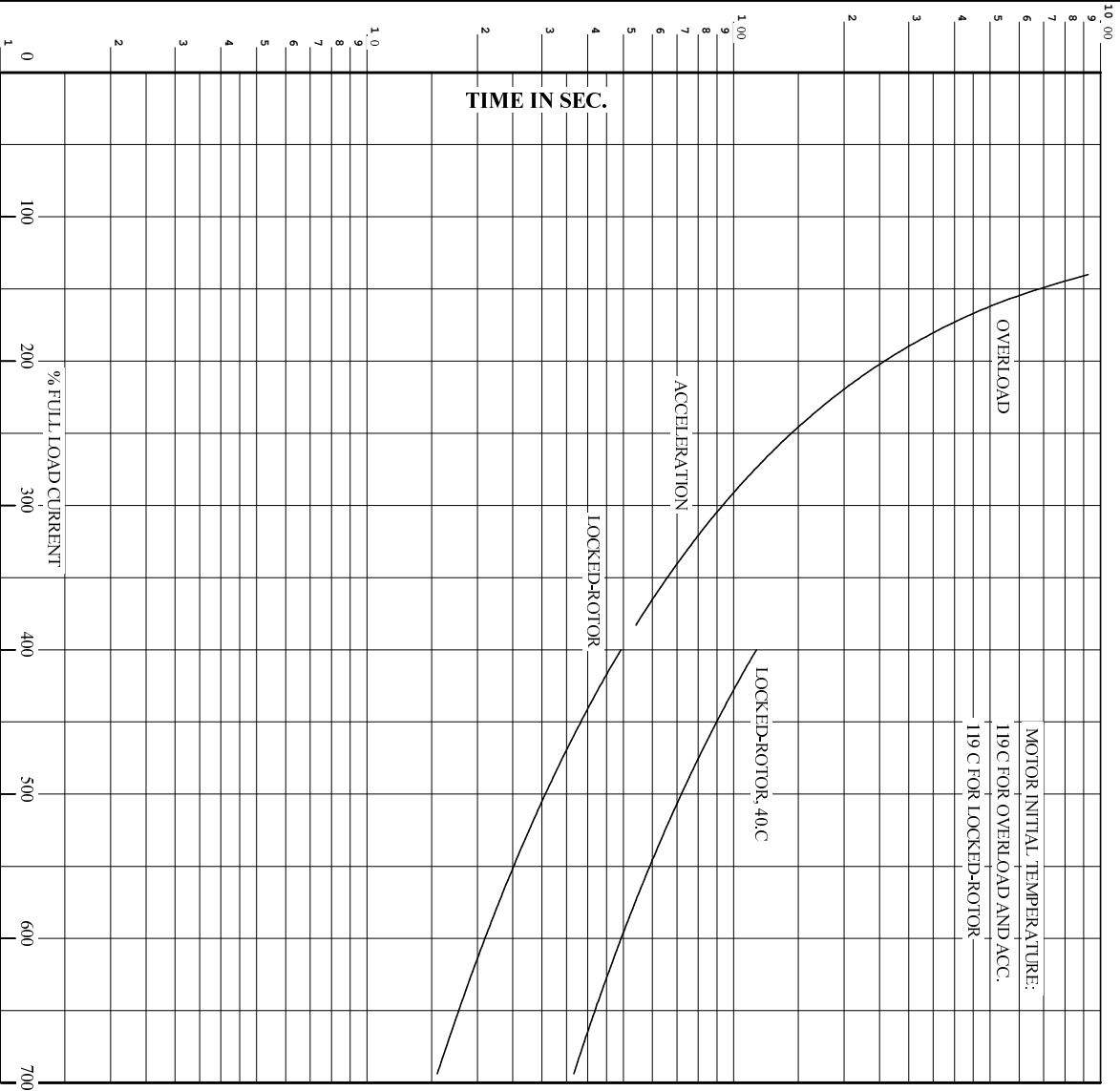
DR. BY W.L. SMITH  
 CK. BY J.H. HARRISON  
 App. BY W.L. SMITH  
 DATE 12/20/05

**A-C MOTOR PERFORMANCE CURVES**  
 A36WG0025-R001  
 ISSUE DATE 12/15/10

Printed on 12/15/10 14:39 @ psecs-motoreng



REL. S.O. . . . . RPM 1780 . . . . . S.F. 1.15 . . . . . ROTOR 418141043EE  
 FRAME 365T . . . . . VOLTS 575 . . . . . NEMA DESIGN B . . . . . TEST S.O. TYPICAL DATA  
 HP 75 . . . . . AMPS 68.7 . . . . . CODE LETTER G . . . . . TEST DATE ---  
 TYPE P . . . . . DUTY CONT . . . . . ENCLOSURE TEFC . . . . . STATOR RES. @ 25 C. 131  
 PHASE/HERTZ 3/60 . . . . . AMB C/INSUL 40/F . . . . . E/S 892131 . . . . . OHMS (BETWEEN LINES)



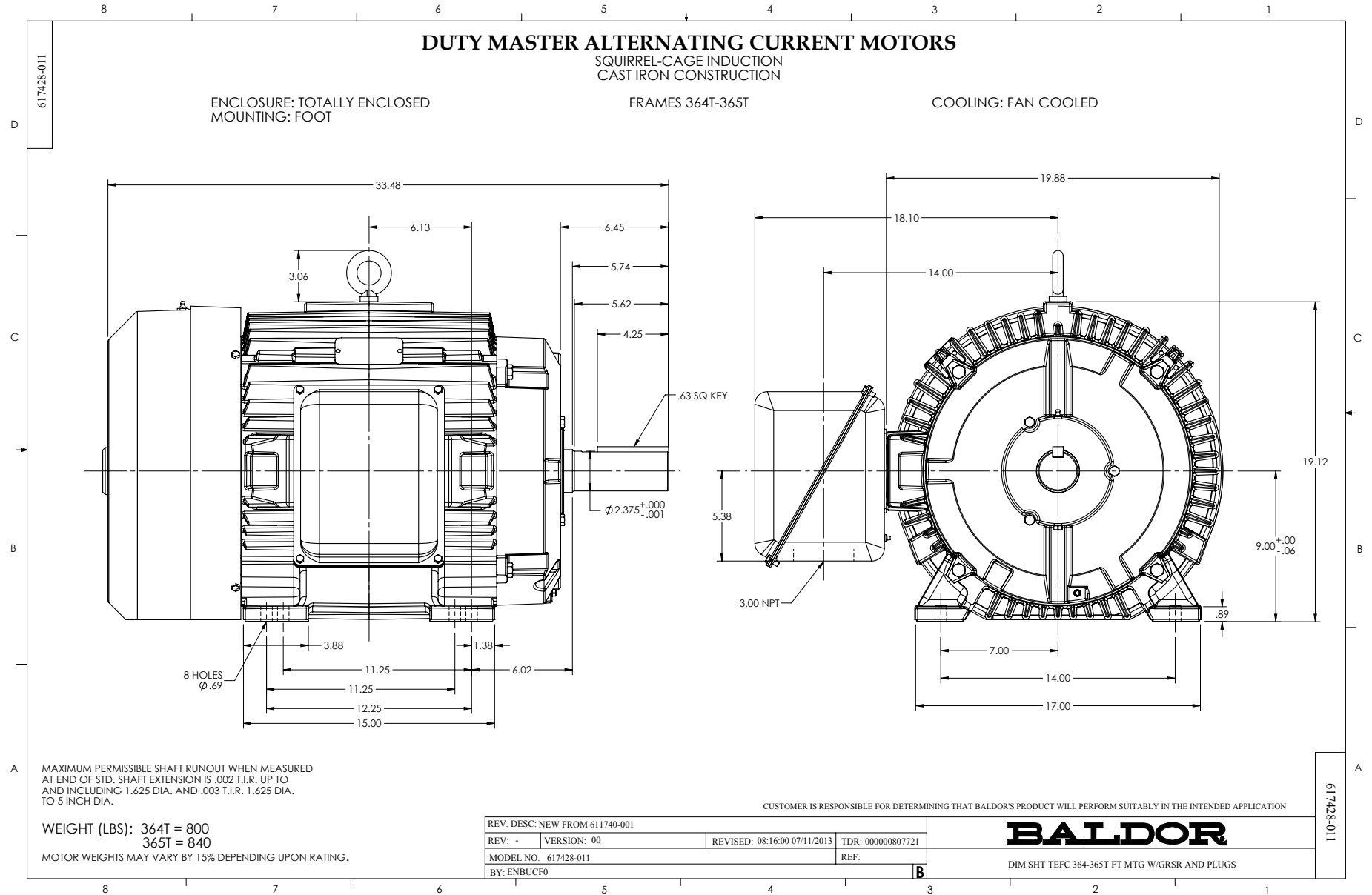
REMARKS: THERMAL LIMIT CURVE  
 XE MOTOR-NEMA NOM. EFF. 95.4 PCT.

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



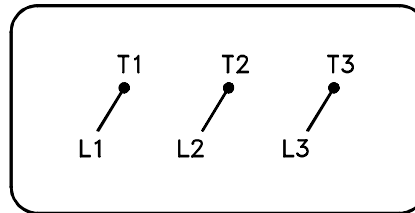
DR. BY W.L. SMITH  
 CK. BY J.HARRISON  
 App. BY W.L. SMITH  
 DATE 12/20/05

**A-C MOTOR**  
**PERFORMANCE** A36WG0025-R001  
**CURVES** ISSUE DATE 12/15/10



416820-036

A-C MOTOR  
 CONNECTION DIAGRAM  
 STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11:54:06 04/30/2010	
MTL: -	BY: RAGRA	

**BALDOR**

CONN DIAG - STANDARD 3 LEAD

SH 1 of 1

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