

# **BALDOR® • RELIANCE**

## **Product Information Packet**

# **ECP84314T-5**

**60HP, 1780RPM, 3PH, 60HZ, 364T, TEFC, FOOT**

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A36062M	Elec. Spec:	A36WG0722	CD Diagram:	416820-036
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	617428-005
Frame:	364T	Mounting:	F1	Poles:	04	Created Date:	10-19-2010
Base:		Rotation:	PS	Insulation:	F	Eff. Date:	05-23-2016
Leads:	3#4					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3237									
CAT NO	ECP84314T-5		SPEC NO.	P36G5242		DESIGN	B		
HP	60	AMPS	54.4	VOLTS	575	SF	1.15	DUTY	CONT
FRAME SIZE	364T	RPM	1780	HZ	60	AMB	40	PH	3
D.E. BRG.DATA	6313	O.D.E. BRG.DATA	6313	TYPE	P	ENCL	TEFC	CODE	G
D.E. BRG.	65BC03J30X	POWER FACTOR	87	NEMA-NOM-EFFICIENCY	95		INSUL.CLASS		
O.D.E. BRG.	65BC03J30X	MAX CORR KVAR	10.0	GUARANTEED EFFICIENCY	94.5				
3/4 LOAD EFF.	95.3	IP	56	TEMP CODE	T3	TEMP =	200		
TEMP CODE	T3	CT HZ	10-60	VT HZ	0-60				
CHP HZ	60-90								
INVERTER-TEMP-CODE	T3								
SER.NO.			MOTOR WEIGHT	937					

Nameplate 000613007EX

CAT NO	ECP84314T-5	SPEC NO.	P36G5242
NO. ROTOR BARS	47	GREASE TYPE	POLYREX EM
NO. SLOTS	60	NL AMPS AT RATED VOLTAGE	15.2
5 YEAR WARRANTY		WINDING RES @25 C	.1711
MFG. DATE		SER.NO	
			OHMS

Parts List		
Part Number	Description	Quantity
SA209153	SA P36G5242	1.000 EA
RA196415	RA P36G5242	1.000 EA
NP3237	SS SUPER E INVERTER DUTY IEEE 841	1.000 EA
000613007EX	SS IEEE 841 EMBOSSED AUXILIARY NAMEPLATE	1.000 EA
000692000JP	N/P	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
000692000VH	N/P	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
034530032BB	P/NIP 1/4X4" SCHED 40	1.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
085922083BH	BRKT 360 085922072WCC KB	1.000 EA
412118006A	DRAIN	1.000 EA
085922083BH	BRKT 360 085922072WCC KB	1.000 EA
412118006A	DRAIN	1.000 EA
078548001K	FAN KB 100/30 (70) 360	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
078559034A	+F/C A 078559001A - 360	1.000 EA
410700004F	WSHR	1.000 EA
415028008E	INPRO SEAL - 360	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
423709011C	WASHER	3.000 EA
034630002AB	CPLG 1/4" PLATED	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
415028008E	INPRO SEAL - 360	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
423709011C	WASHER	3.000 EA
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 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
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
415000103H	TERMINAL LUG	1.000 EA
415039016A	TERBD, 360-400	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 EA

Product Information Packet: ECP84314T-5 - 60HP,1780RPM,3PH,60HZ,364T,TEFC,FOOT

418150003A	GREASE FITTING CAP	1.000 EA
034530020BB	P/NIP 1/4X2-1/2 PLATED	1.000 EA
034530032AB	P/NIP 1/8X4 PLATED	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	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
482403003BEF	RUST VETO 342	0.013 GA
MG1500G03-5	LACQUER PRIMER, GRAY	0.063 GA
421948051	LABEL, MYLAR	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABLE	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	364T	60	P	3/60	1780	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
54.4	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
492282	418141-35-YE	---	---	.173		

PERFORMANCE

LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %
NO LOAD	0	16.1	1800	4.67	0
1/4	15.0	20.7	1795	58.6	93.0
2/4	30.0	30.0	1791	78.7	95.2
3/4	45.0	41.6	1786	85.0	95.3
4/4	60.0	54.4	1781	87.0	95.0
5/4	75.0	68.1	1775	87.5	94.3

SPEED TORQUE

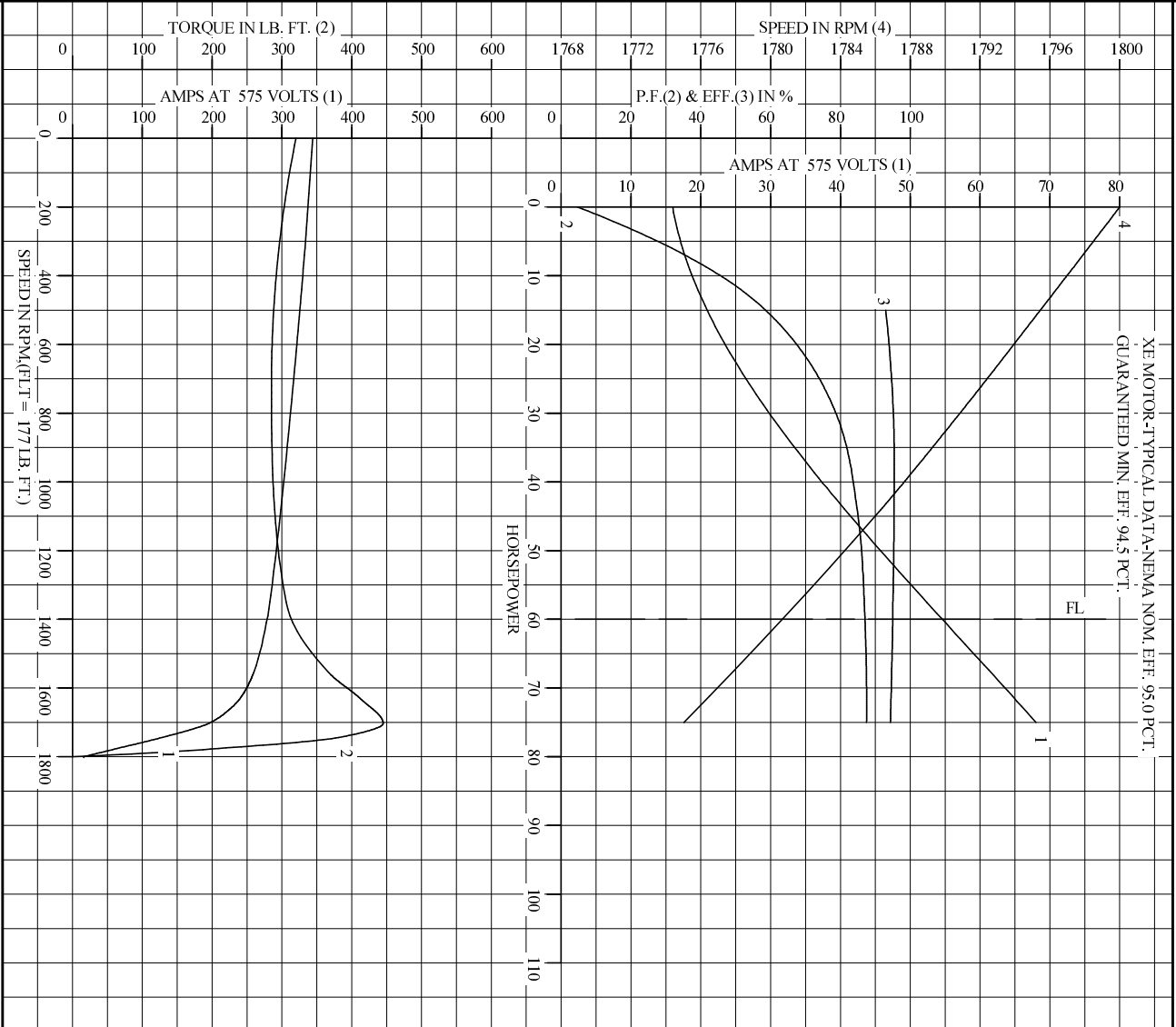
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	181	320	344
PULL UP	720	161	285	316
BREAKDOWN	1703	251	445	195
FULL LOAD	1781	100	177	54.4

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-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.  
 GUARANTEED MIN. EFF. 94.5 PCT.

<b>BALDOR</b>	DR. BY J. P. MCGILL	<b>A-C MOTOR</b>
	CK. BY K. W. KANOFF	
	APP. BY K. W. KANOFF	<b>PERFORMANCE DATA</b>
	DATE 12/16/91	ISSUE DATE 12/15/10

REL. S.O. \_\_\_\_\_ RPM 1780 S.F. 1.15 ROTOR 418141-35-YE  
 FRAME 364T VOLTS 575 NEMA DESIGN B TEST S.O. TYPICAL DATA  
 HP 60 AMPS 54.4 CODE LETTER G TEST DATE ---  
 TYPE P DUTY CONT ENCLOSURE TEFC STATOR RES. @ 25 °C .173  
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 492282 OHMS (BETWEEN LINES)



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

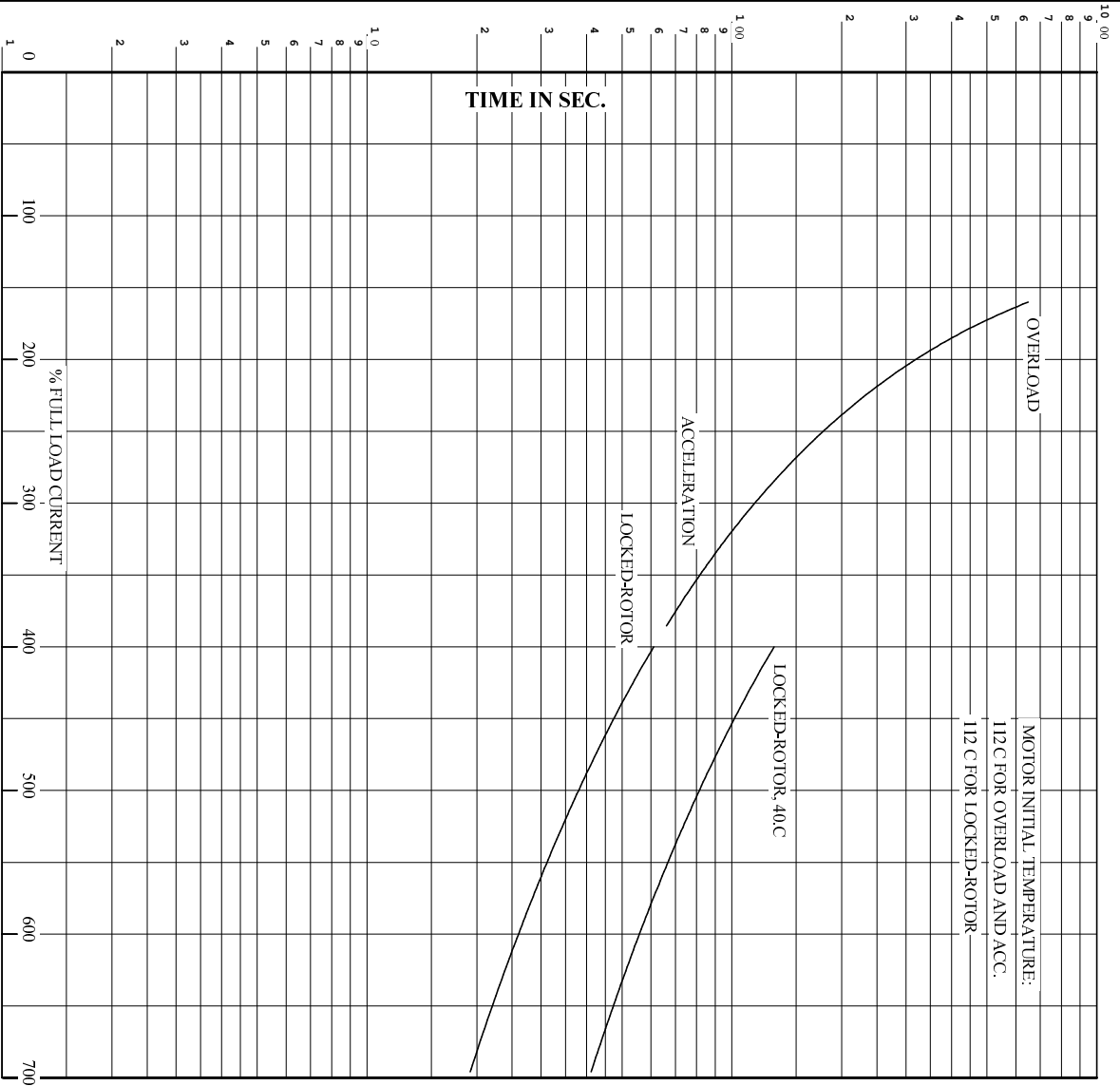
**BALDOR**

DR. BY J.P. MCGILL  
 CK. BY K.W. KANOUFF  
 APP. BY K.W. KANOUFF  
 DATE 12/16/91

**A-C MOTOR PERFORMANCE CURVES** A36WG0722-R001  
 ISSUE DATE 12/15/10

Printed on 12/15/10 9:04 @ pscs-motoreng

REL. S.O. . . . . RPM 1780 . . . . . S.F. 1.15 . . . . . ROTOR 418141-35-YE  
 FRAME 364T . . . . . VOLTS 575 . . . . . NEMA DESIGN B . . . . . TEST S.O. TYPICAL DATA  
 HP 60 . . . . . AMPS 54.4 . . . . . CODE LETTER G . . . . . TEST DATE ---  
 TYPE P . . . . . DUTY CONT . . . . . ENCLOSURE TEFC . . . . . STATOR RES. @ 25 C. 1.73  
 PHASE/HERTZ 3/60 . . . . . AMB C/INSUL 40/F . . . . . E/S 492282 . . . . . OHMS (BETWEEN LINES)



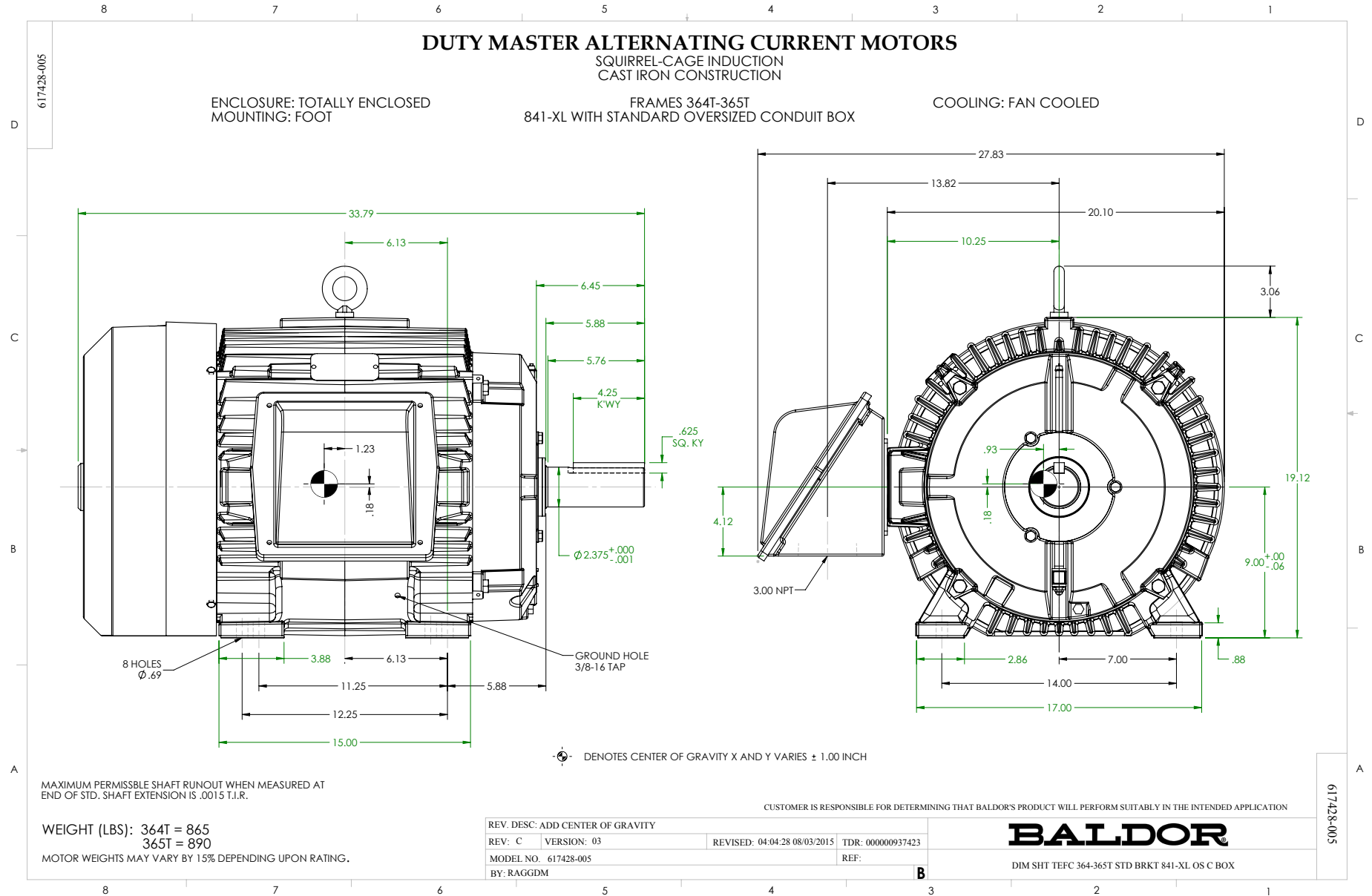
REMARKS: THERMAL LIMIT CURVE  
 XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.  
 GUARANTEED MIN. EFF. 94.5 PCT.

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



DR. BY J.P. McGILL  
 CK. BY K.W. KANDLER  
 App. BY K.W. KANDLER  
 DATE 12/16/91

**A-C MOTOR**  
**PERFORMANCE**  
**CURVES**  
 A36WG0722-R001  
 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

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>