

ABB BALDOR RELIANCE III

Customer information packet

ECP84308T-5

40HP, 1190RPM, 3PH, 60HZ, 364T, A36062M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	39.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3A
Heater Indicator	No Heater
High Voltage Full Load Amps	39.5 a
Insulation Class	F

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0511
Layout	617428-603
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	06
Leads	3#6
Proprietary	False
Created date	11-27-2018

Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G
Lifting Lugs	No Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
No Load Current	14.2 a
Number of Poles	6
Overall Length	33.49 IN
Power Factor	80
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388																	
CAT #	ECP84308T-5						FR	364T			IP56						
SPEC	A36-6000-0511						ENCL		TEFC		DES	B					
HZ	60	PH	3	CL	F	HP	40	SF	1.15	PF	80	%	CODE	G			
VOLTS	575					AMPS		39.5									
RPM	1190		MAX RPM			1800		SER									
NEMA NOM. EFF	94.1		%		RATING		40C AMB-CONT										
GUAR MIN. EFF	93		%		BRG DE		6313			BRG ODE		6313					
CL I DIV 2 GRPS A,B,C,D				CL I ZONE 2 GRPS						IIA,IIB,IIC			TEMP T		3-200		C
CT HZ	6-60			VT HZ		0-60											
CHP HZ	60-90			INV TEMP CL				200		C							
								MTR WT		922		LBS					

NP4333									
CAT #		ECP84308T-5		ROTOR BARS		55			
SPEC		A36-6000-0511		STATOR SLOTS		72			
SER				MAX CORR KVAR		12			
GREASE		POLYREX EM							
ABMA DE BRG		65BC03J30X		ODE		65BC03J30X			
SPACE HEATER LEADS H1-H2:		TIE LIKE NUMBERS		TOGETHER					
MAX. SPACE HEATER TEMP.		C		V		A		W	

Parts List

Part number	Description	Quantity
SA363391	SA A36-6000-0511	1.000 ea
RA352667	RA A36-6000-0511	1.000 ea
NP4388	SS SUPER E INVERTER DUTY IEEE 841 MAIN N	1.000 ea
NP4333	SS SUPER-E SD IEEE 841 CLI DIV2 UR CSA C	1.000 ea
000692000JP	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000692000VH	N/P (RELEASE 1000 PCS)	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. 032018012DR	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 Zinc	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
078550001M	FAN KB 60/30 (30) 360	1.000 ea
078559034A	+F/C A 078559001A - 360	1.000 ea
085922083BH	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
412118006A	DRAIN	1.000 ea
415028079E	INPRO SEAL,.625 WIDE,313 BRG	1.000 ea
415028079E	INPRO SEAL,.625 WIDE,313 BRG	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011C	WASHER	3.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 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
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
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
423709011C	WASHER	3.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	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	CONDUIT BOX-360	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
415039016A	TERBD, 360-400	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 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
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

FRAME 364T

RPM 1190

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

VOLTS 575

CODE LETTER G

TEST DATE ---

TYPE P

AMPS 39.5

DUTY CONT

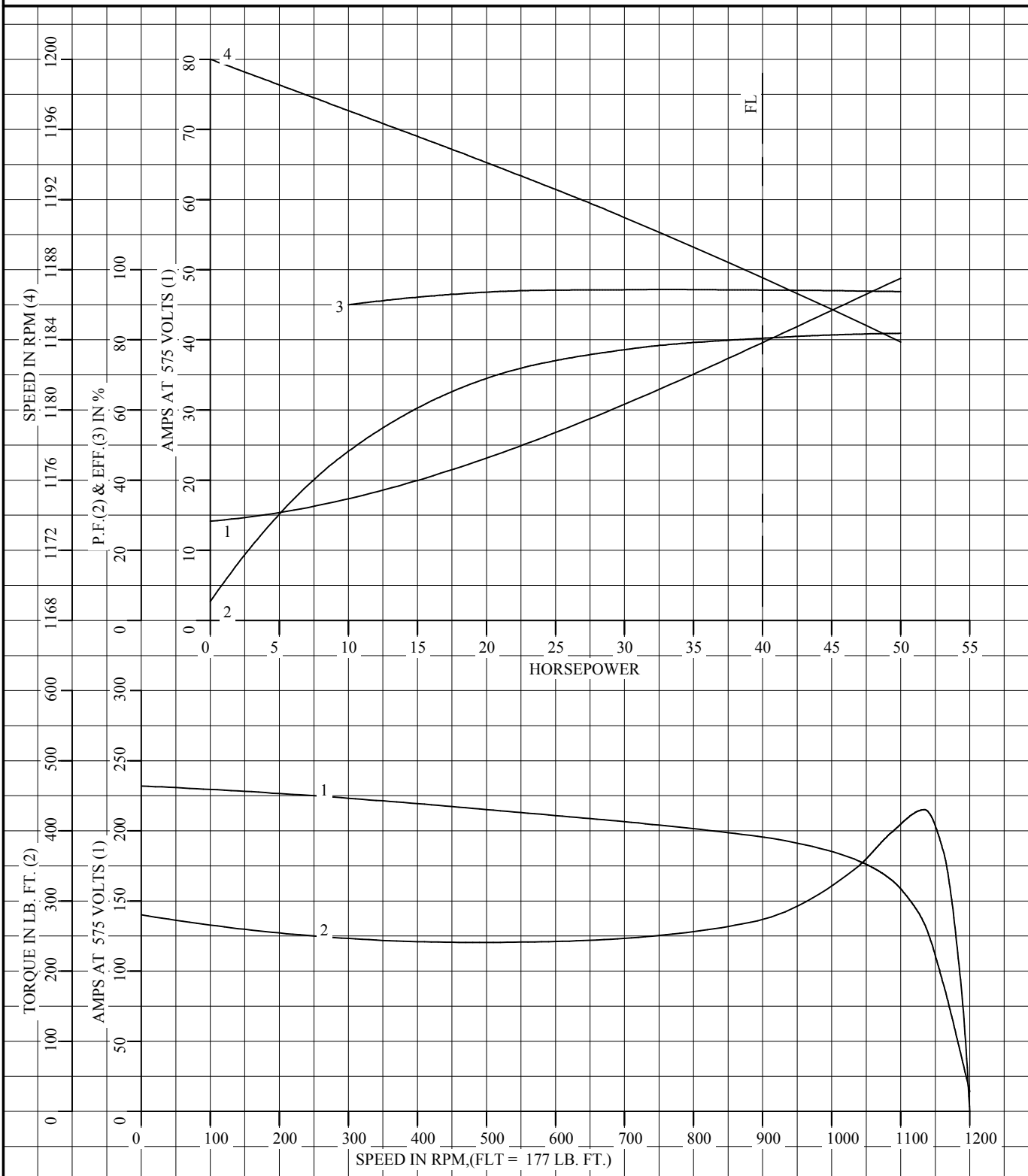
ENCLOSURE FCXE

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 491379

STATOR RES. @ 25 °C .237
OHMS (BETWEEN LINES)



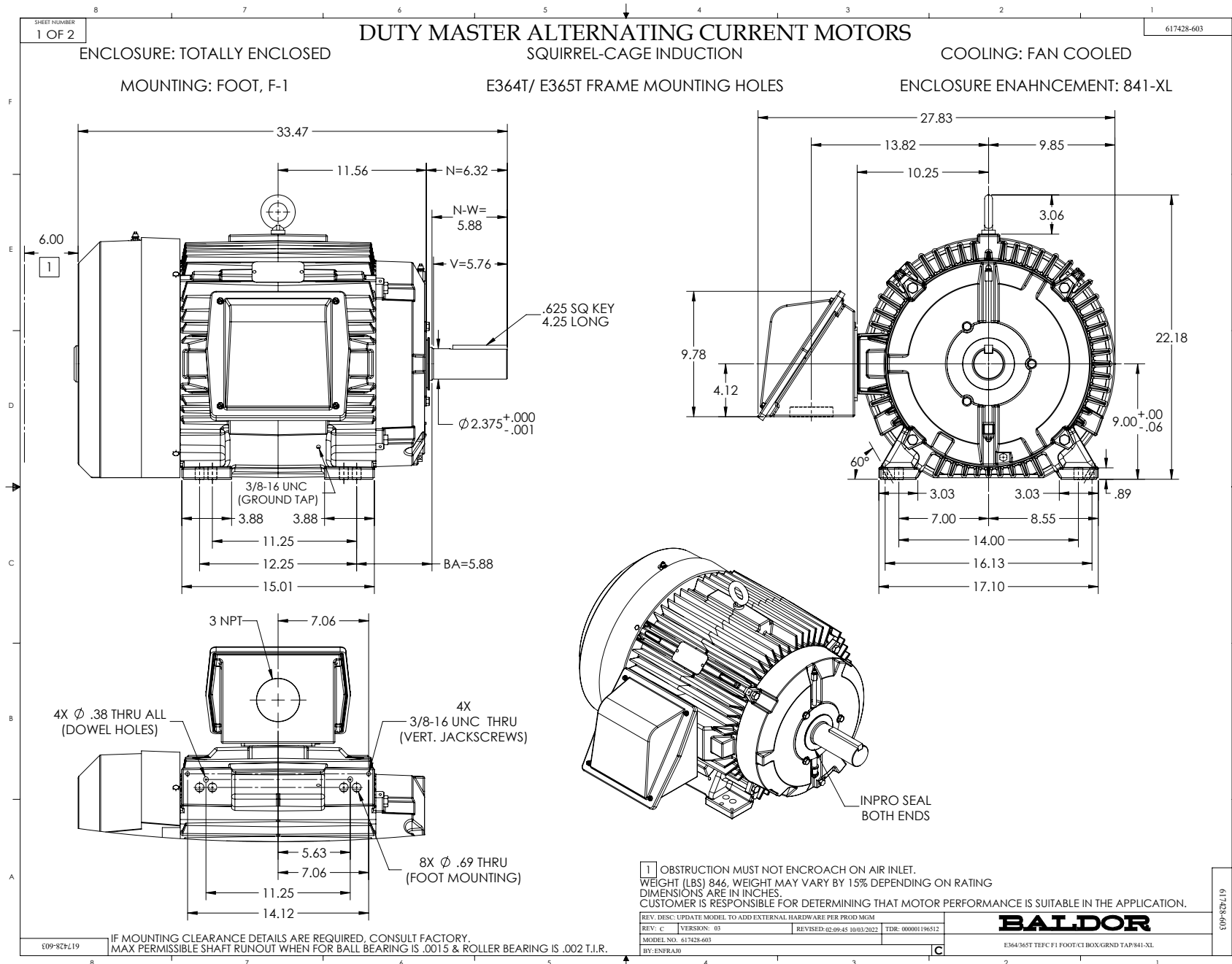
AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

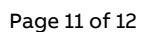
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY J. J. HARRISON
APP. BY W. L. SMITH
DATE 12/07/05

**A-C MOTOR
PERFORMANCE
CURVES** A36WG0511-R002
ISSUE DATE 12/07/05

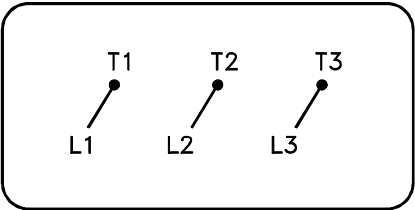
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	40	P	3/60	1190	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
39.5	CONT	40/F	1.15	B	G	FCXE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491379	418141-74EE	---	---	.237		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	14.2	1200	5.41	0	
1/4	10.0	17.3	1197	48.3	90.0	
2/4	20.0	23.2	1194	69.0	93.6	
3/4	30.0	30.8	1191	77.2	94.3	
4/4	40.0	39.5	1188	80.5	94.2	
5/4	50.0	48.8	1184	81.9	93.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	158	280	232	
PULL UP		480	136	241	216	
BREAKDOWN		1135	243	430	133	
FULL LOAD		1188	100	177	39.5	
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA A36WG0511-R002 ISSUE DATE 12/07/05		
		CK. BY	J. J. HARRISON			
		APP. BY	W. L. SMITH			
		DATE	12/07/05			





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