

ABB BALDOR RELIANCE III

Customer information packet

ECTM4403T-5G

60HP, 1185RPM, 3PH, 60HZ, 405T, A40064M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405T
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	55.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	55.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0845
Layout	617433-750
Eff. date	06-17-2026
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	04-13-2022

Number of Poles	6
Overall Length	38.19 IN
Power Factor	86
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

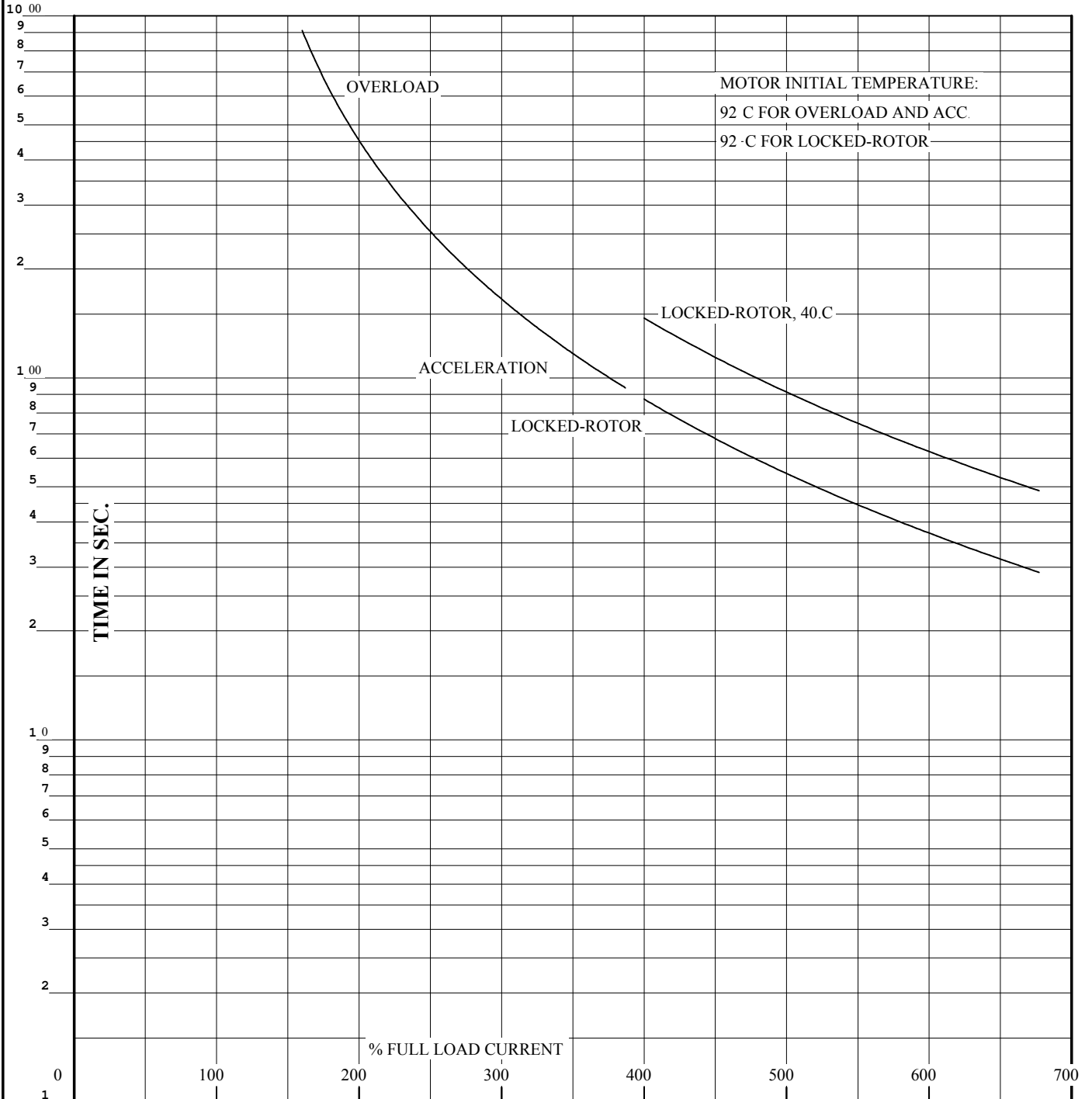
Nameplate

000613007EW														
CAT.NO.	ECTM4403T-5G				SPEC NO.		A40-7215-0845							
HP	60	AMPS		55.2		VOLTS		575		DESIGN		B		
FRAME	405T	RPM		1185		HZ		60	AMB		40	SF	1.15	
DRIVE END BEARING	80BC03J30X			PH	3	DUTY		CONT		INSUL.CLASS		F		
OPP D.E. BEARING	80BC03J30X			TYPE		P	ENCL		TEFC		CODE		G	
D.E.BRG.DATA	6316			POWER FACTOR				86		NEMA NOM EFFICIENCY				95
O.D.E.BRG.DATA	6316			MAX CORR KVAR						GUARANTEED EFFICIENCY				94.1
3/4 LOAD EFF.	95		NEMA NOM/CSA QUOTED EFF											
SER.NO.					MOTOR WEIGHT									

000901002AAA

INV DUTY 20:1 VT

REL. S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71EE
FRAME 404LP	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 60	AMPS 55.2	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC-841	STATOR RES. @ 25 °C .171
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 595763	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 95.0 %

GUARANTEED MIN. EFF. 94.5%

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 CD
CK. BY CD
APP. BY T. KELATI
DATE 10/06/2014

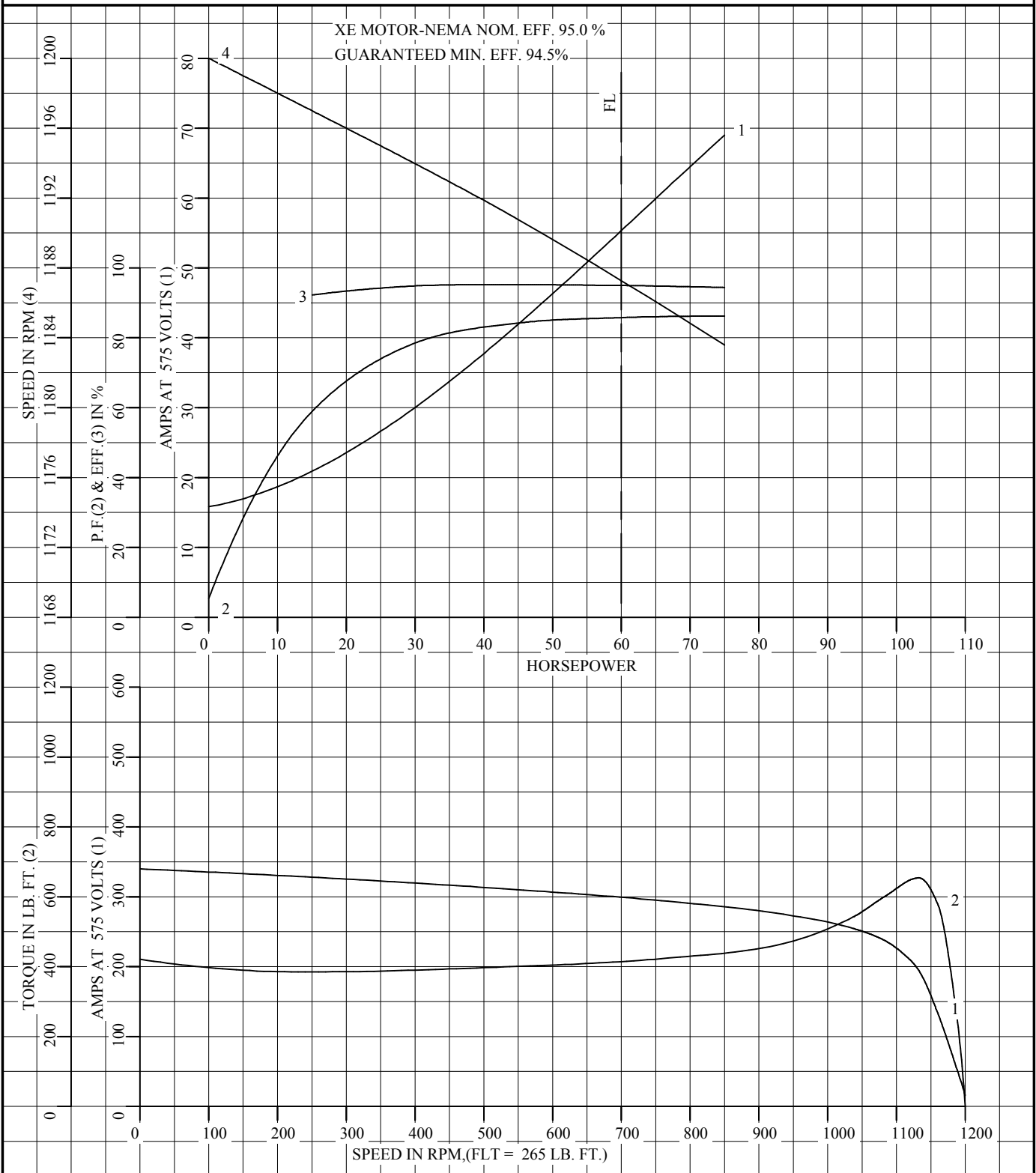
**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0845-R006

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REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	404LP	60	P	3/60	1185	575		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
55.2	CONT	40/F	1.15	B	G	TEFC-841		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
595763	418142-71EE	---	---	.171				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	15.9	1200	5.37	0			
1/4	15.0	20.7	1197	58.9	92.3			
2/4	30.0	30.2	1194	78.5	94.8			
3/4	45.0	42.0	1191	84.2	95.2			
4/4	60.0	55.2	1187	85.8	95.0			
5/4	75.0	69.0	1184	86.2	94.4			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	159	421	340			
PULL UP		240	145	385	329			
BREAKDOWN		1133	247	654	194			
FULL LOAD		1187	100	265	55.2			
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. 95.0 % GUARANTEED MIN. EFF. 94.5%								
		DR. BY	CD	A-C MOTOR PERFORMANCE DATA				
		CK. BY	CD					
		APP. BY	T. KELATI					
		DATE	10/06/2014					
				A40WG0845-R006 ISSUE DATE 10/06/20				

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HP 60	AMPS 55.2	CODE LETTER G	TEST DATE ---
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PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 595763	OHMS (BETWEEN LINES)



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**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0845-R006
ISSUE DATE 10/06/2014

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

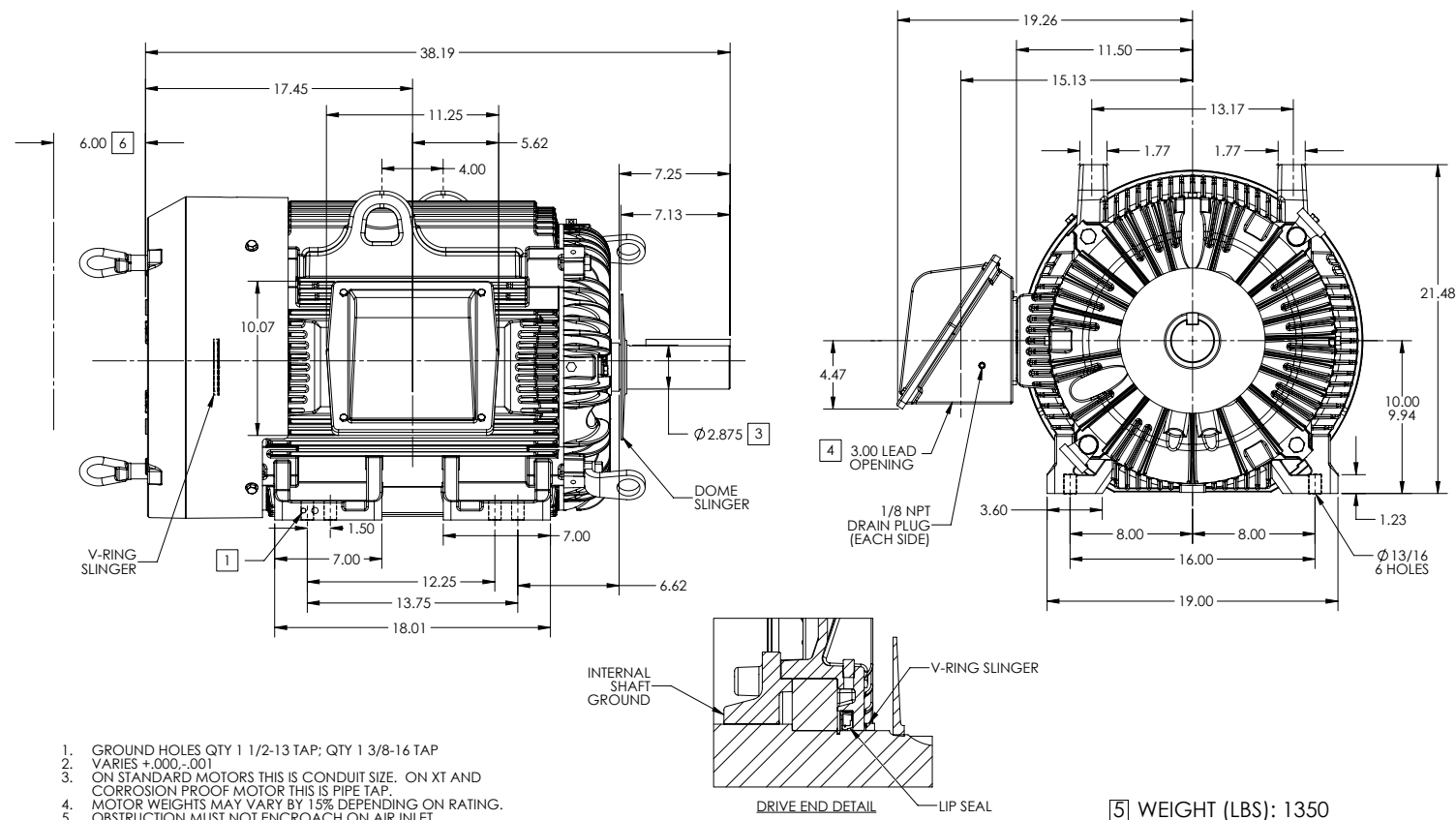
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

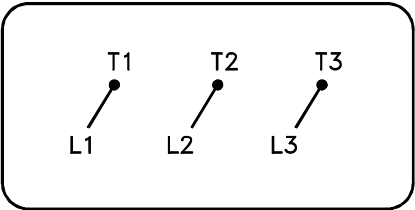
INCLUDES 404T FRAME MOUNTING HOLES

STANDARD INDUSTRIAL ENCLOSURE



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