

ABB BALDOR RELIANCE III

Customer information packet

ECTM4404T-5G

75HP, 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	75.000 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	69.500 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	69.5 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	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0771
Layout	617433-750
Eff. date	06-06-2023
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	85
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

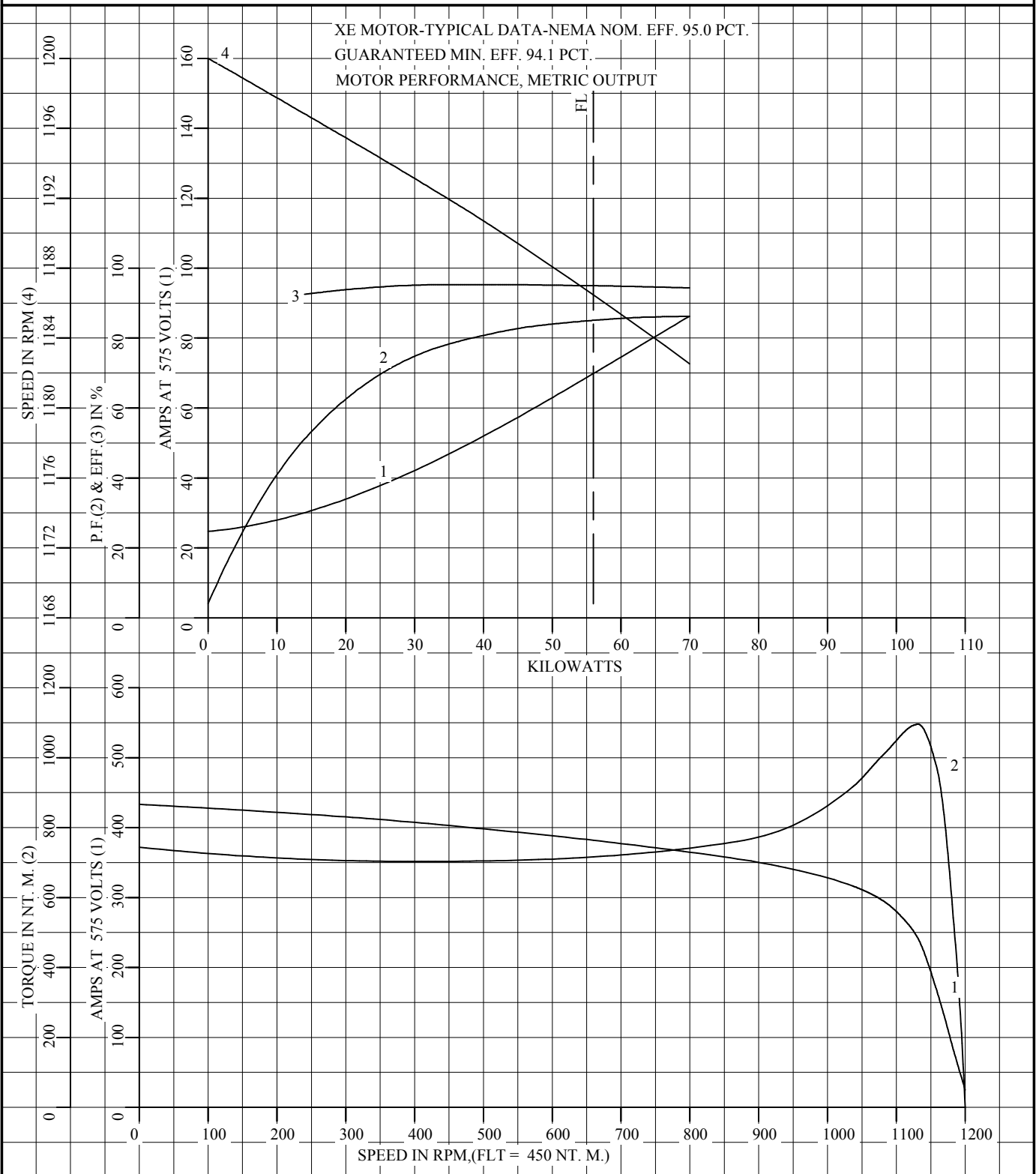
Nameplate

000613007EW													
CAT.NO.	ECTM4404T-5G				SPEC NO.	A40-7198-0771							
HP	75HP	AMPS	69.5		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			85	NEMA NOM EFFICIENCY			95			
O.D.E.BRG.DATA	6316		MAX CORR KVAR			15.00	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.	FRAME	KW	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	405HP	55.9	P	3/60	1185	575		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
69.5	CONT	40/F	1.15	B	G	TEFC-841		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
496235	418142-71-EE	---	---	.134				
PERFORMANCE								
LOAD	KW	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	24.8	1200	4.11	0			
1/4	14.0	29.7	1197	51.1	92.5			
2/4	28.0	40.6	1194	73.0	95.0			
3/4	41.9	54.2	1190	81.6	95.3			
4/4	56.0	69.5	1187	85.1	95.0			
5/4	69.9	86.3	1183	86.2	94.4			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE NT.-M.	AMPERES			
LOCKED ROTOR		0	165	744	433			
PULL UP		400	156	703	408			
BREAKDOWN		1132	243	1096	241			
FULL LOAD		1187	100	450	69.5			
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE TYPICAL DATA REMARKS: MOTOR PERFORMANCE, METRIC OUTPUT XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT. GUARANTEED MIN. EFF. 94.1 PCT.								
		DR. BY	G. R. WEBB	A-C MOTOR PERFORMANCE DATA A40WG0771-R008 ISSUE DATE 11/04/14 Page 6 of 10				
		CK. BY	W. L. SMITH					
		APP. BY	W. L. SMITH					
		DATE	10/15/14					

REL S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
FRAME 405HP	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
KW 55.9	AMPS 69.5	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC-841	STATOR RES. @ 25 °C .134
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 496235	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE
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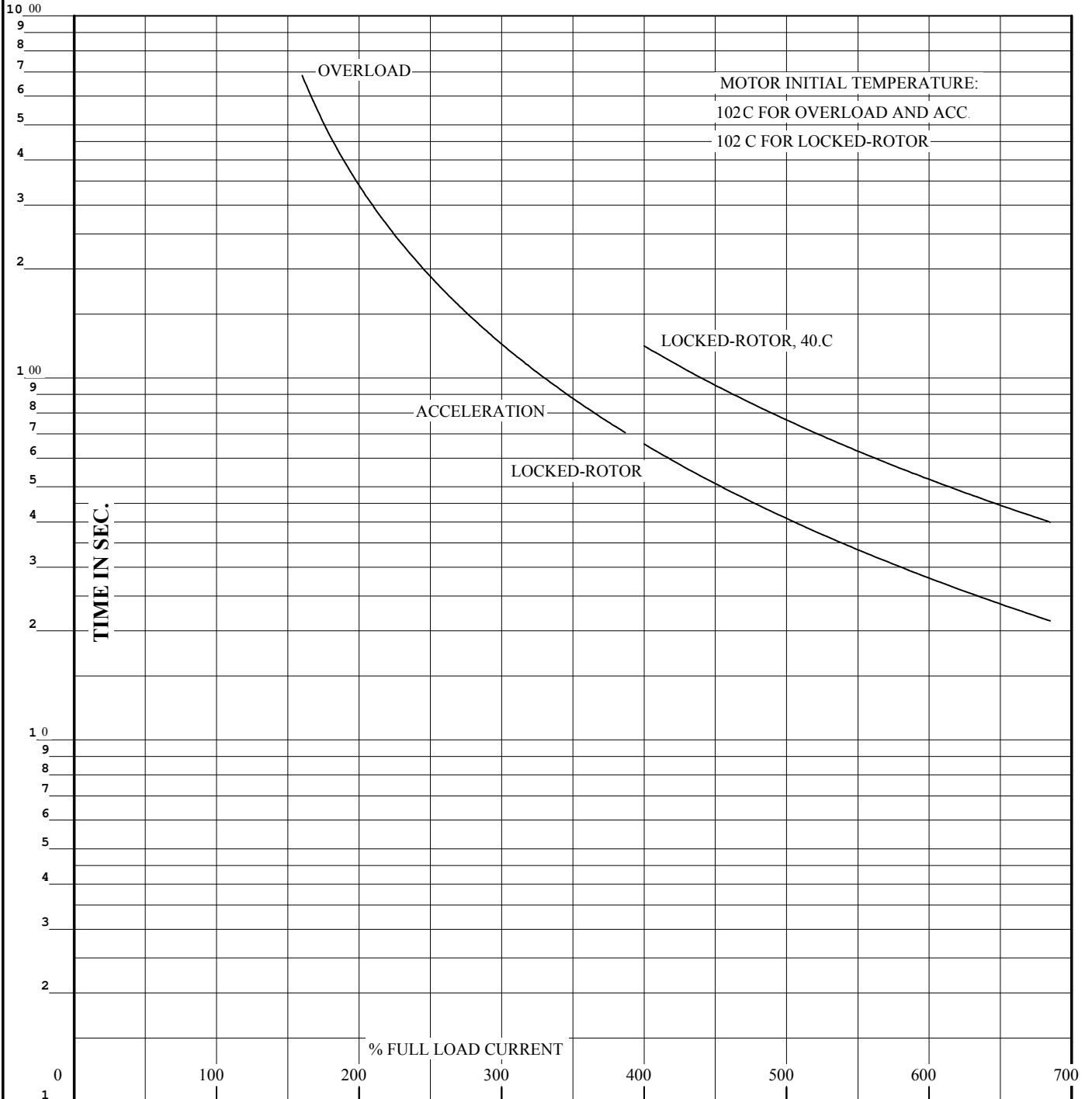
BALDOR
 A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
 CK. BY W. L. SMITH
 APP. BY W. L. SMITH
 DATE 10/15/14

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0771-R008
 ISSUE DATE 11/04/14

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THERMAL LIMIT CURVE

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.
GUARANTEED MIN. EFF. 94.1 PCT.

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**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0771-R008
ISSUE DATE 11/04/14 Page 8 of 10

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

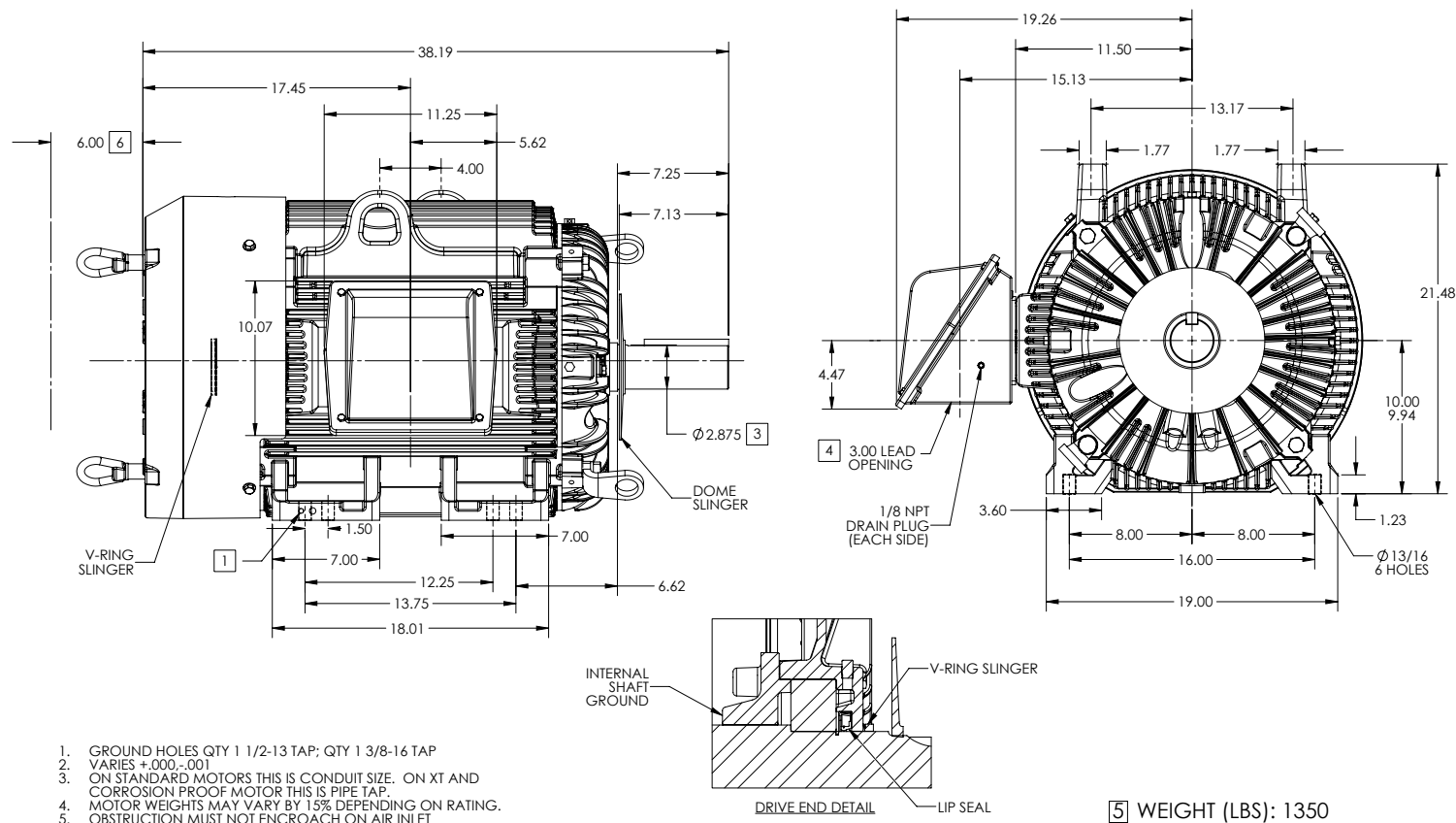
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

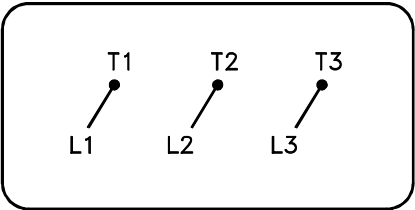
INCLUDES 404T FRAME MOUNTING HOLES

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