

ABB BALDOR RELIANCE III

Customer information packet

EM4416T-4

200HP, 3570RPM, 3PH, 60HZ, 447TS, A44104M, TEF

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	447TS
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	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	216.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	216.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG

Part Detail

Revision	T
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3376
Layout	617427-087
Eff. date	10-06-2025
CD Diagram	416820-036
Poles	02
Leads	3#1 (02 per group)
Proprietary	False
Created date	08-14-2012

Motor Standards	NEMA
Motor Type	A44104M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	44.48 IN
Power Factor	91
Product Family	Other
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	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L														
SPEC NO.	P44G3911			CAT.NO.		EM4416T-4				FRAME	447TS			
HP	200	VOLTS	460	PHASE		3	DESIGN	B	TYPE	P				
RPM	3570	AMPS	213	HZ		60	AMB	40	SF	1.15				
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F						
OPP D.E. BEARING	65BC03J30X			ENCL	TEFC	CODE	G							
SER.NO.				POWER FACTOR		91	NEMA-NOM-EFFICIENCY				95.4			
					MAX CORR KVAR		21.0	GUARANTEED EFFICIENCY		94.5				
					NEMA NOM/CSA QUOTED EFF									
					MOTOR WEIGHT									

Accessories

Part number	Description	Multiplier
089490104B	BRKT,DE 089490103WCA, C-Face	P1
089490108A	D-FLANGE EP MACHINING, G28 W/6313 BRG	P1

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					EM4416T-4 - 200HP, 3570RPM, 3PH, 60HZ, 447TS, A44104M, TEF				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		447TS	200	P	3/60	3570	460				
AMPS	DUTY	AMB °C/ INSUL		S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
216	CONT	40/F		1.15	B	G	TEFC				
E/S	ROTOR	TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)					
833199	418143006LE	---		---		.0144					
PERFORMANCE											
LOAD	HP	AMPERES		RPM		% POWER FACTOR		% EFFICIENCY			
NO LOAD	0	46.4		3600		7.62		0			
1/4	50.0	79.5		3593		63.7		92.4			
2/4	100	119		3586		82.4		95.1			
3/4	150	166		3578		88.4		95.7			
4/4	200	216		3570		90.6		95.7			
5/4	250	269		3562		91.3		95.4			
SPEED TORQUE											
		RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.		AMPERES			
LOCKED ROTOR		0		151		444		1446			
PULL UP		1350		123		362		1331			
BREAKDOWN		3462		279		821		730			
FULL LOAD		3570		100		294		216			
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.											
TYPICAL DATA											
		DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>E.J.CHRISTIAN</u> DATE: <u>08/04/10</u>			AC MOTOR PERFORMANCE DATA		A44WG3376-R001 DATE ISSUED 06/19/19				

FRAME 447TS

RPM 3570

S.F. 1.15

ROTOR 418143006LE

HP 200

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 216

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

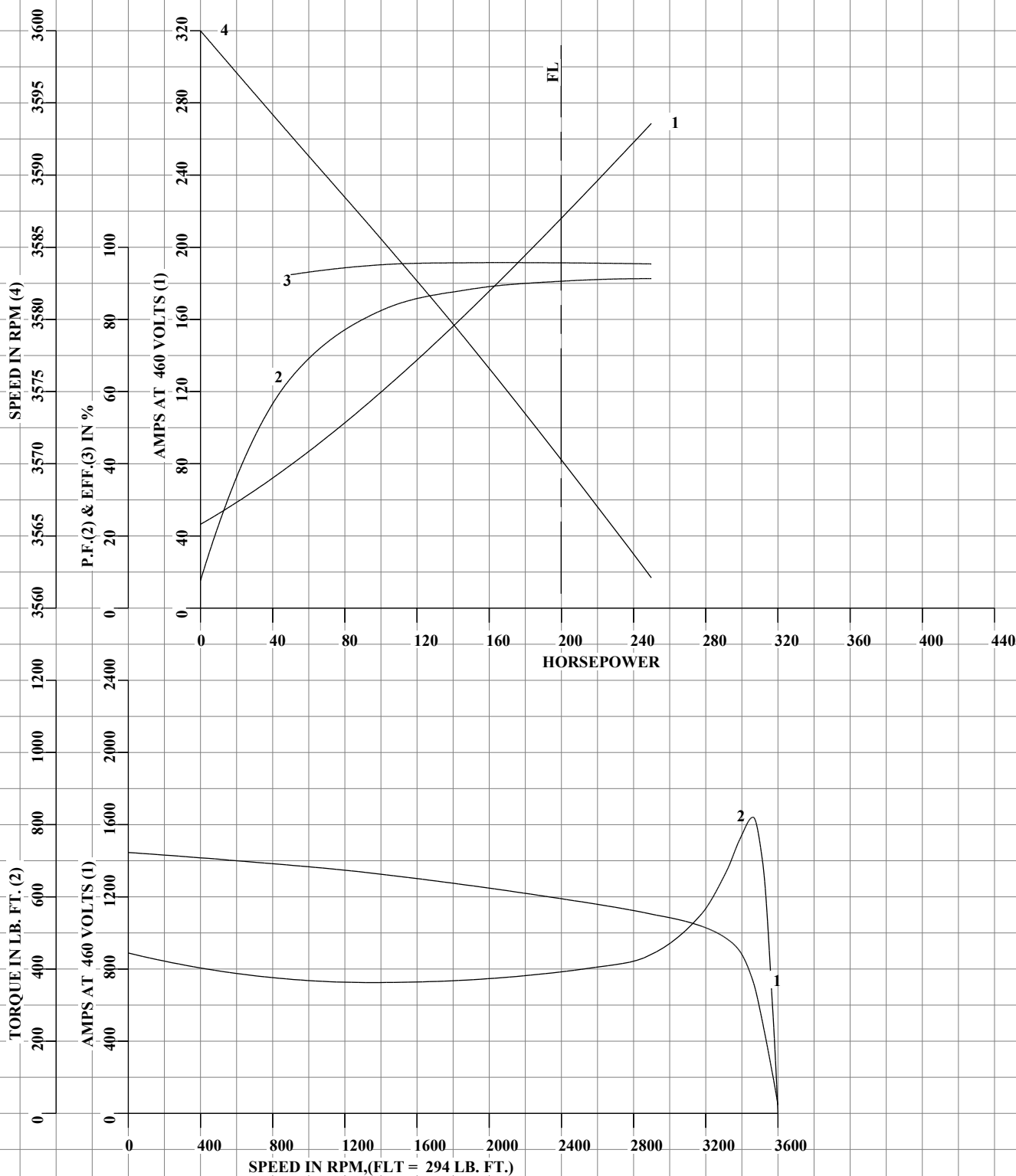
ENCLOSURE TEFC

STATOR RES. @ 25°C .0144

AMB °C / INSUL 40/F

E/S 833199

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR
PERFORMANCE
DATA

A44WG3376-R001

ISSUE DATE 06/19/19

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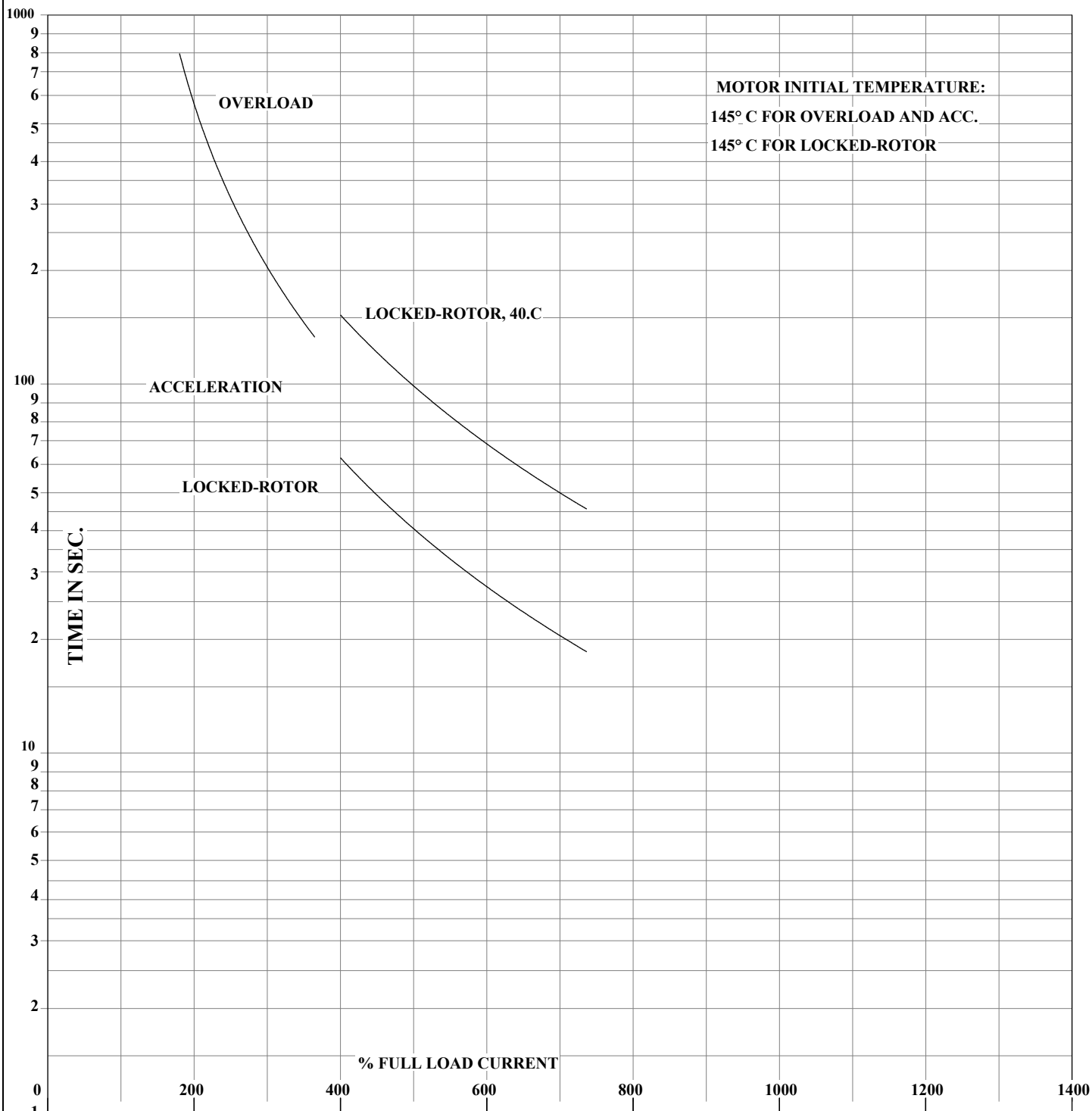
ENCLOSURE TEFC

STATOR RES. @ 25°C .0144

AMB °C / INSUL 40/F

E/S 833199

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR
PERFORMANCE
DATA

A44WG3376-R001

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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

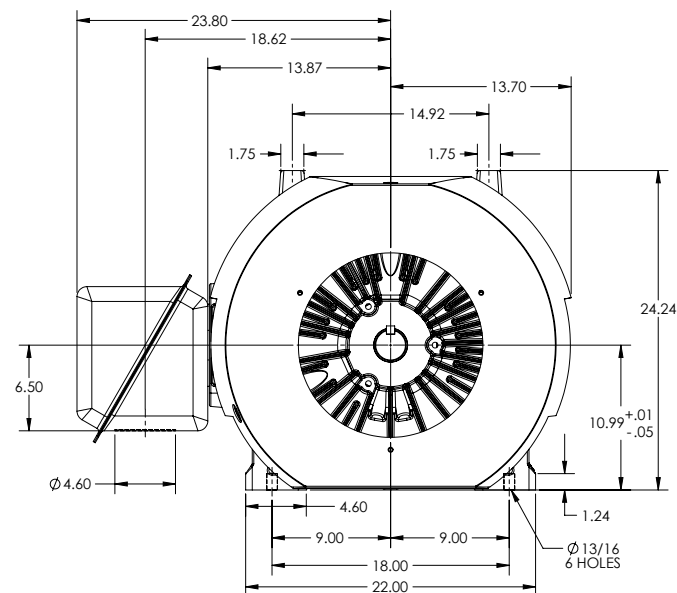
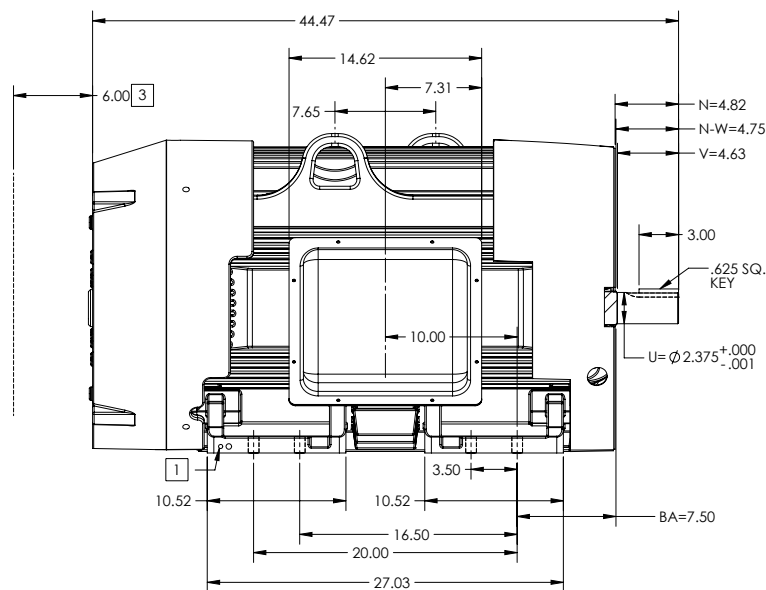
ENCLOSURE: TOTALLY ENCLOSED

FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
3. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

2 WEIGHT (LBS): 2480

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
1 OF 1

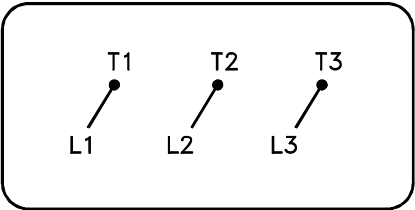
CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

REV.	DESC: UPDATE DIMENSION ON SHAFT EXT.	VERSION:	REVISED:	TDR:
B		02	08-03-29 02:19/2020	000001133045
MODEL NO.	617427-087	REF:		
BY: RAGRS1	Material:			

BALDOR
G447TS/445TS STD FOOTED SIDE/CENTER STEEL C/B

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