

ABB BALDOR RELIANCE III

Customer information packet

AEM4403-4

60HP, 1185RPM, 3PH, 60HZ, 444U, A44046M, TEFC

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444U
Frame Material	Iron
Frequency	60.00 Hz
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	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	70.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	70.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	Other
Motor Type	A44046M
Mounting Arrangement	F1
Number of Poles	6

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A44WG1563
Layout	617427-067
Eff. date	03-04-2016
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	08-22-2012

Overall Length	44.75 IN
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2436L												
SPEC NO.	P44G4004			CAT.NO.						FRAME	444U	
HP	60	VOLTS	460	PHASE		3	DESIGN		B	TYPE	P	
RPM	1185	AMPS	70.2	HZ		60	AMB	40	SF	1.15		
DRIVE END BEARING	90BC03JPP30A		BLANK				DUTY	CONT		INSUL.CLASS		F
OPP D.E. BEARING	90BC03JPP30A				ENCL	TEFC	CODE	G				
NEMA-NOM-EFF	94.1											
GUARANTEED EFFICIENCY	93.0											
SER.NO.												
MOTOR WEIGHT	1415											

NP2496L	
MOBIL POLYREX EM	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	444U	60	P	3/60	1185	460			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
70.2	CONT	40/F	1.15	B	G	TEFC			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
497197	418143-80-AE	---	---	.101					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	26.5	1200	5.47	0				
1/4	15.0	31.3	1197	49.9	89.9				
2/4	30.0	41.9	1194	71.7	93.5				
3/4	45.0	55.2	1191	81.0	94.2				
4/4	60.0	70.2	1187	85.0	94.1				
5/4	75.0	86.6	1184	86.6	93.7				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	169	449	435				
PULL UP		608	149	395	385				
BREAKDOWN		1138	253	672	253				
FULL LOAD		1187	100	265	70.2				
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA									
		DR. BY P.B. GREENE		A-C MOTOR PERFORMANCE A44WG1563-R001 DATA					
		CK. BY K.W. KANOUFF							
		APP. BY K.W. KANOUFF							
		DATE 03/24/93							
				ISSUE DATE 12/18/10					

FRAME 444U

RPM 1185

VOLTS 460

NEMA DESIGN B

HP 60

AMPS 70.2

CODE LETTER G

TEST S.O. TYPICAL DATA

TYPE P

DUTY CONT

ENCLOSURE TEFC

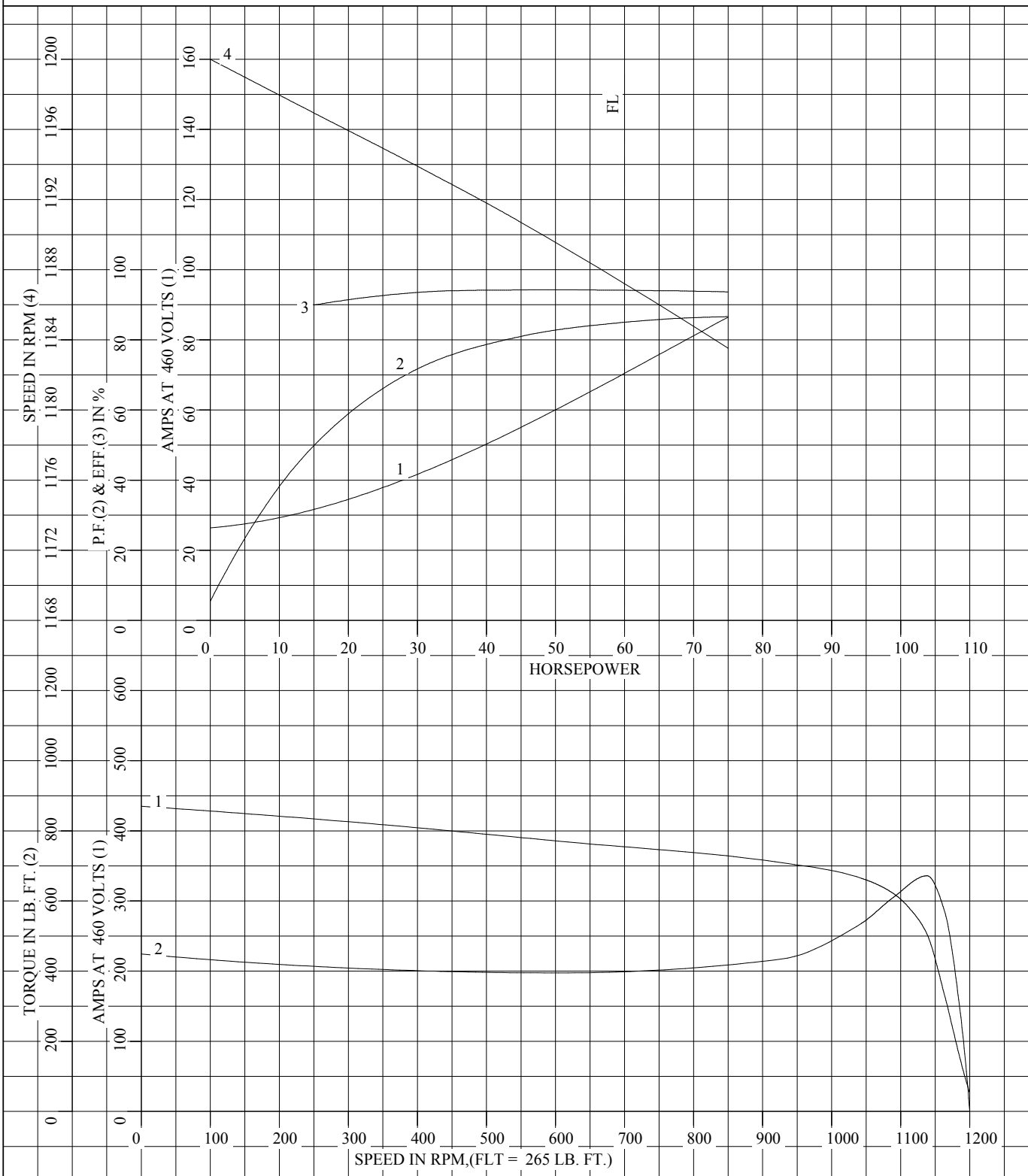
TEST DATE ---

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497197

STATOR RES. @ 25 °C .101
OHMS (BETWEEN LINES)



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

BALDOR

DR. BY P.B. GREENE
CK. BY K.W. KANOUFF
APP. BY K.W. KANOUFF
DATE 03/24/93

**A-C MOTOR
PERFORMANCE CURVES** A44WG1563-R001
ISSUE DATE 12/18/10

REL. S.O.

RPM 1185

S.F. 1.15

ROTOR 418143-80-AE

FRAME 444U

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 70.2

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

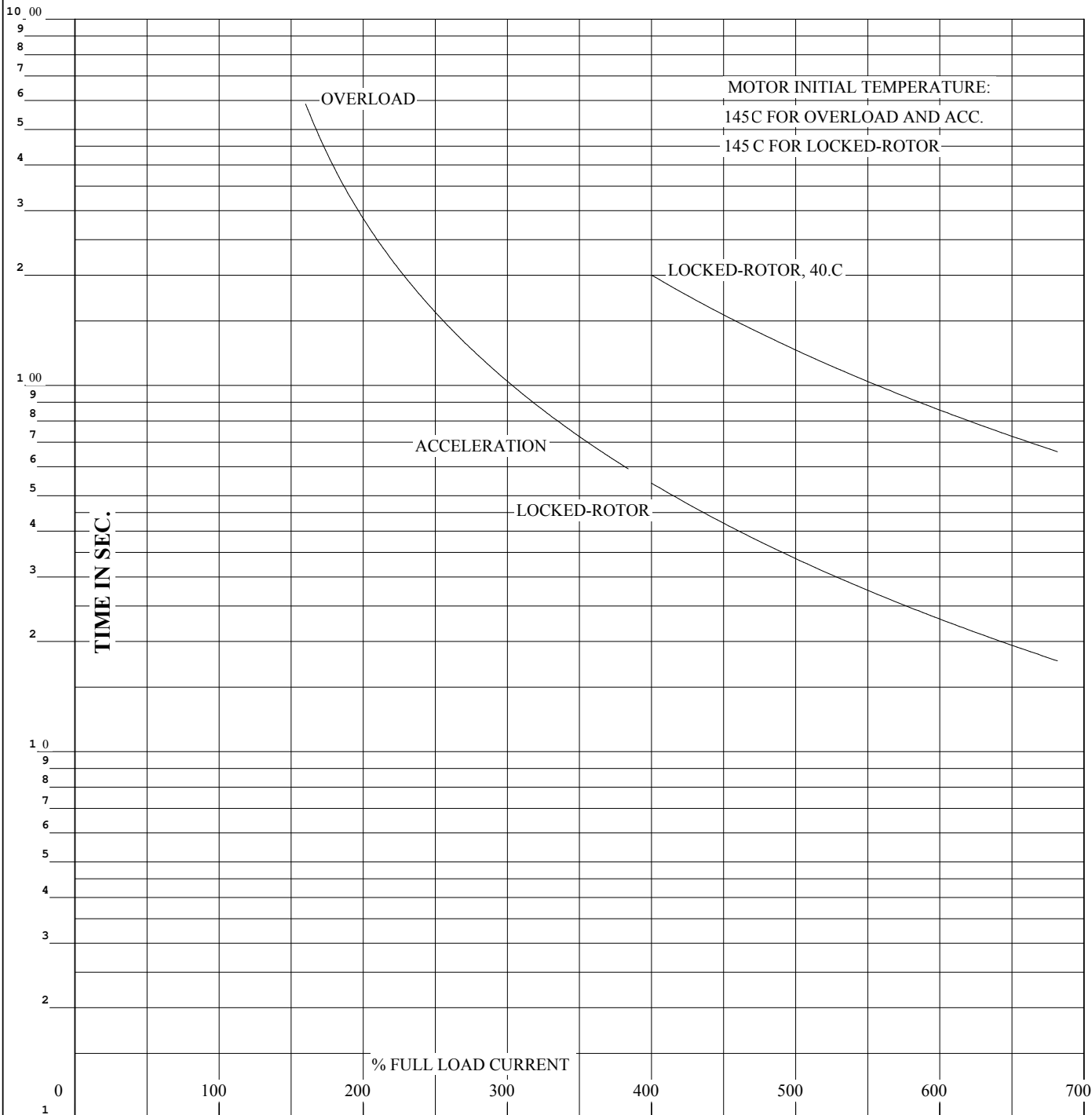
STATOR RES. @ 25 °C .101

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497197

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

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

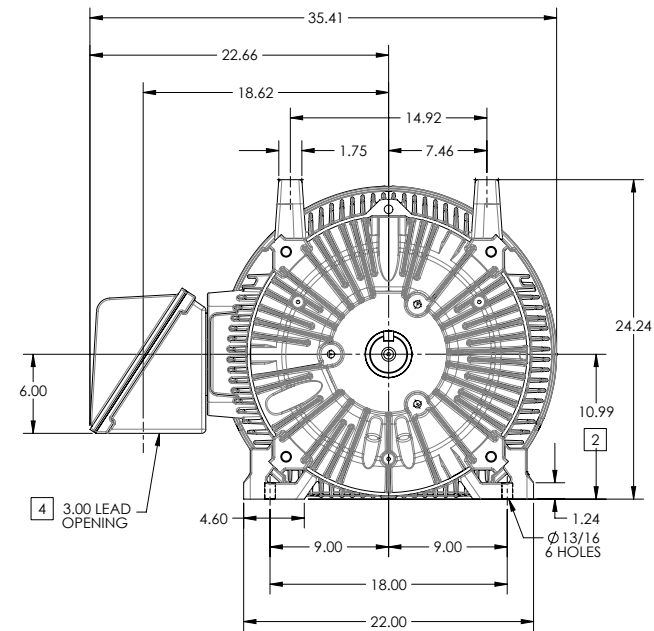
BALDOR

DR. BY P.B. GREENE
CK. BY K.W. KANOUFF
APP. BY K.W. KANOUFF
DATE 03/24/93

**A-C MOTOR
PERFORMANCE CURVES** A44WG1563-R001
ISSUE DATE 12/18/10

SQUIRREL-CAGE INDUCTION

INCLUDES 444U FRAME MOUNTING HOLES



- 5 WEIGHT (LBS): 2130

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

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

G445U/444U STD – FOOTED – SIDE/CENTER C/B

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

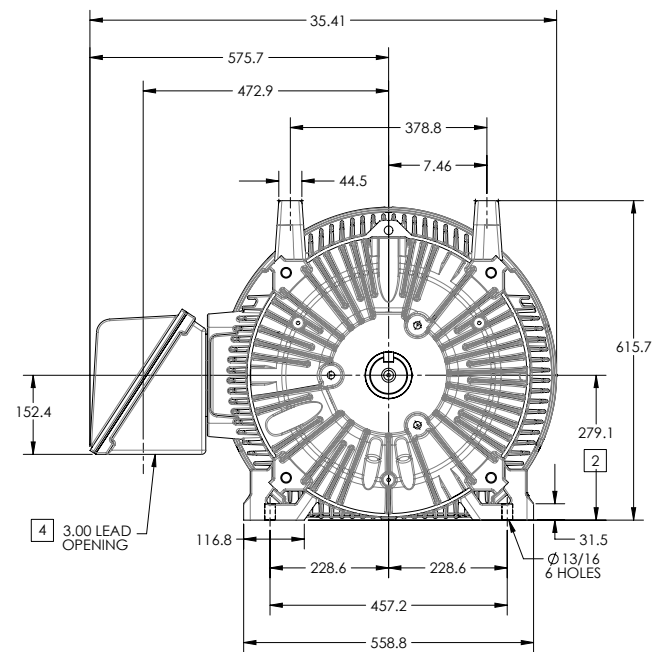
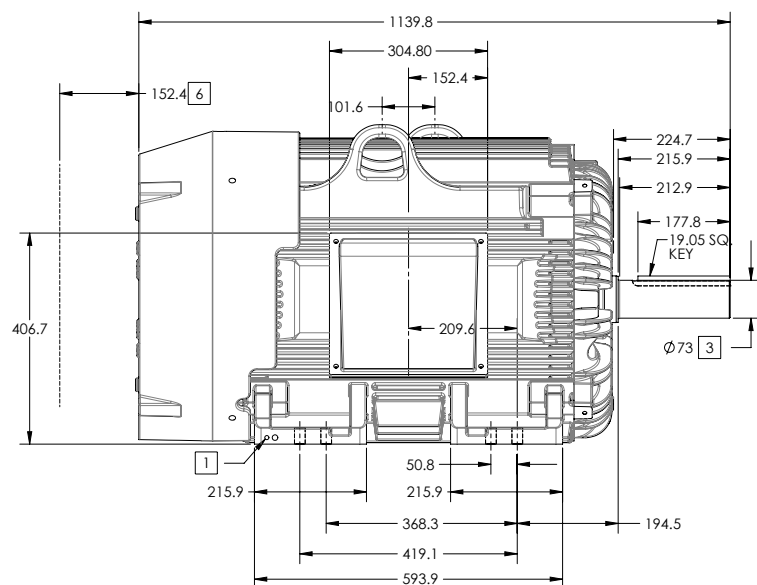
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445U ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444U FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

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 .08 MM T.I.R. TO 127 MM DIA.

[5] WEIGHT (KGS): 970

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

 SHEET NUMBER
2 OF 2

L907-27-067

REV. DESC: CORRECT C/BOX			
REV: B	VERSION: 02	REVISED: 12-48-26 07/29/2014	TDR: 000000864738
MODEL NO. 617427-067		REF:	
BY: RAGAHJ	Material:		

BALDOR

G445U/444U STD - FOOTED - SIDE/CENTER 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