

ABB BALDOR RELIANCE III

Customer information packet

P44G3763

250HP, 1785RPM, 3PH, 60HZ, 449T, A44140M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	276.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2A
Heater Indicator	No Heater
High Voltage Full Load Amps	276.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A44WG1502
Layout	617423-016
Eff. date	09-30-2015
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	None
Motor Type	A44140M
Mounting Arrangement	F1
No Load Current	72.5 a
Number of Poles	4
Overall Length	53.24 IN
Power Factor	88
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007ET											
CAT NO				SPEC NO.		P44G3763					
HP	250	AMPS	276		VOLTS		460		DESIGN	B	
FRAME SIZE	449T	RPM	1785		HZ	60	AMB	40	SF	1.15	
D.E. BRG.	90BC03J30X		PH	3	DUTY	CONT		INSUL.CLASS		F	
O.D.E. BRG.	90BC03J30X		TYPE	P	ENCL	TEFC	CODE	G			
D.E.BRG.DATA	6318		POWER FACTOR			88		NEMA-NOM-EFFICIENCY			96.2
O.D.E.BRG.DATA	6318		MAX CORR KVAR			43.0		GUARANTEED EFFICIENCY			95.4
3/4 LOAD EFF.	96.6		NEMA NOM/CSA QUOTED EFF								
SER.NO.				MOTOR WEIGHT			2971				

000613007EX				
CAT NO		SPEC NO.	P44G3763	
NO. ROTOR BARS	58	GREASE TYPE	POLYREX EM	
NO. SLOTS	72	NL AMPS AT RATED VOLTAGE		72.5
5 YEAR WARRANTY		WINDING RES @25 C	.01546	OHMS
MFG. DATE		SER.NO		

000692000UJ					
TCODE	T2A	TEMP	280	CL I DIV 2 GR	ABCD
CL.1,ZONE 2,GR	IIAIIIBIIC	CL II DIV 2 GR		X X X	
MOTOR I.D. NO.					

Accessories

Part number	Description	Multiplier
089490106C	G28 C-FACE BRKT MACH-6318 B 089490105WCA	
089490110C	D-FLANGE EP MACHINING, G28 W/6318 BRG	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
276	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
833162	418143050YE	---	---	.0154		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	72.4	1800	3.23	0	
1/4	62.6	106	1796	58.0	95.4	
2/4	125	154	1792	78.4	96.7	
3/4	187	213	1788	85.2	96.6	
4/4	250	278	1784	87.6	96.2	
5/4	313	346	1779	88.3	95.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	146	1077	1765	
PULL UP		550	127	932	1676	
BREAKDOWN		1727	281	2071	971	
FULL LOAD		1784	100	736	278	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA NOM. EFF. - 96.2% GUAR. MIN. EFF. - 95.4%						
		DR. BY J.J.HARRISON		A-C MOTOR PERFORMANCE DATA A44WG1502-R001 ISSUE DATE 01/03/17		
		CK. BY T.KELATI				
		APP. BY T.KELATI				
		DATE 05/14/10				

REL S.O.

RPM 1785

S.F. 1.15

ROTOR 418143050YE

FRAME 449T

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 250

AMPS 276

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

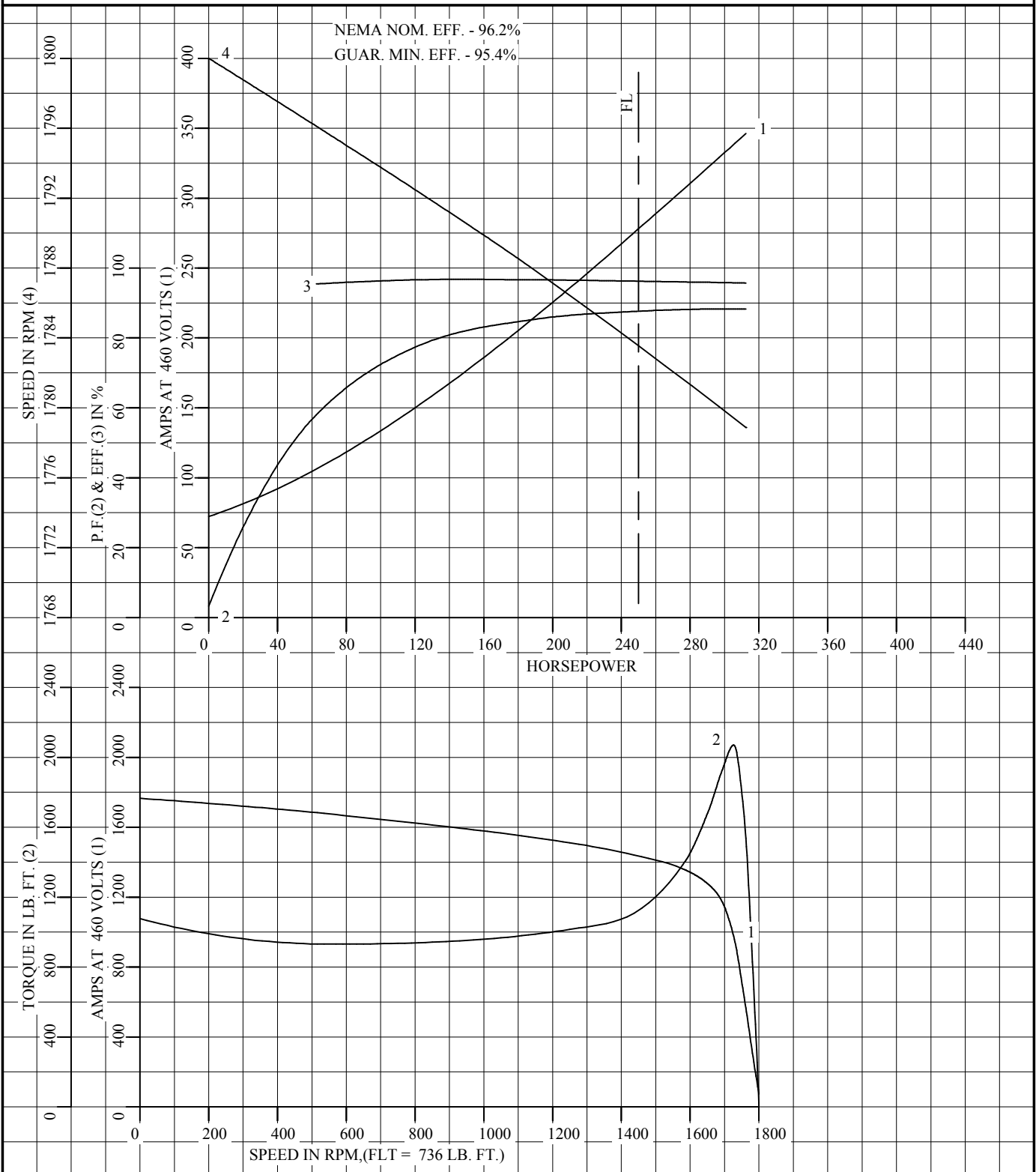
STATOR RES. @ 25 °C .0154

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 833162

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
A MEMBER OF THE ABB GROUP

DR. BY J.J.HARRISON
CK. BY T.KELATI
APP. BY T.KELATI
DATE 05/14/10

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG1502-R001

ISSUE DATE 01/03/17 Page 9 of 12

REL. S.O.

RPM **1785**

S.F. **1.15**

ROTOR **418143050YE**

FRAME **449T**

VOLTS **460**

NEMA DESIGN **B**

TEST S.O. **TYPICAL DATA**

HP **250**

AMPS **276**

CODE LETTER **G**

TEST DATE **---**

TYPE **P**

DUTY **CONT**

ENCLOSURE **TEFC**

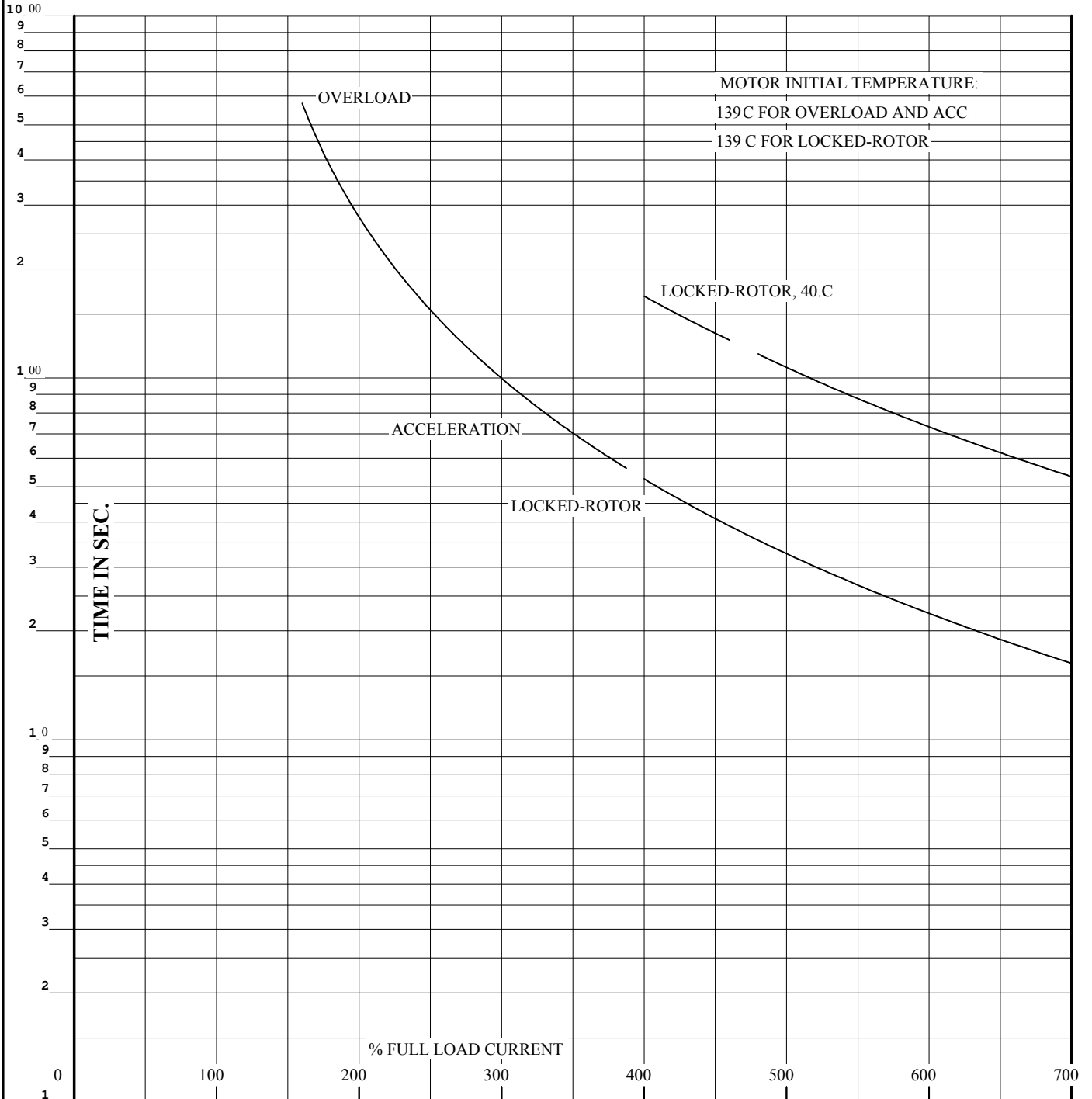
STATOR RES. @ 25 °C **.0154**

PHASE/HERTZ **3/60**

AMB °C/INSUL **40/F**

E/S **833162**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

NEMA NOM. EFF. - 96.2%

GUAR. MIN. EFF. - 95.4%

AMPERES SHOWN FOR 460 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 J.J.HARRISON
CK. BY T.KELATI
APP. BY T.KELATI
DATE 05/14/10

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG1502-R001

ISSUE DATE 01/03/17 Page 10 of 12

617423-016

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

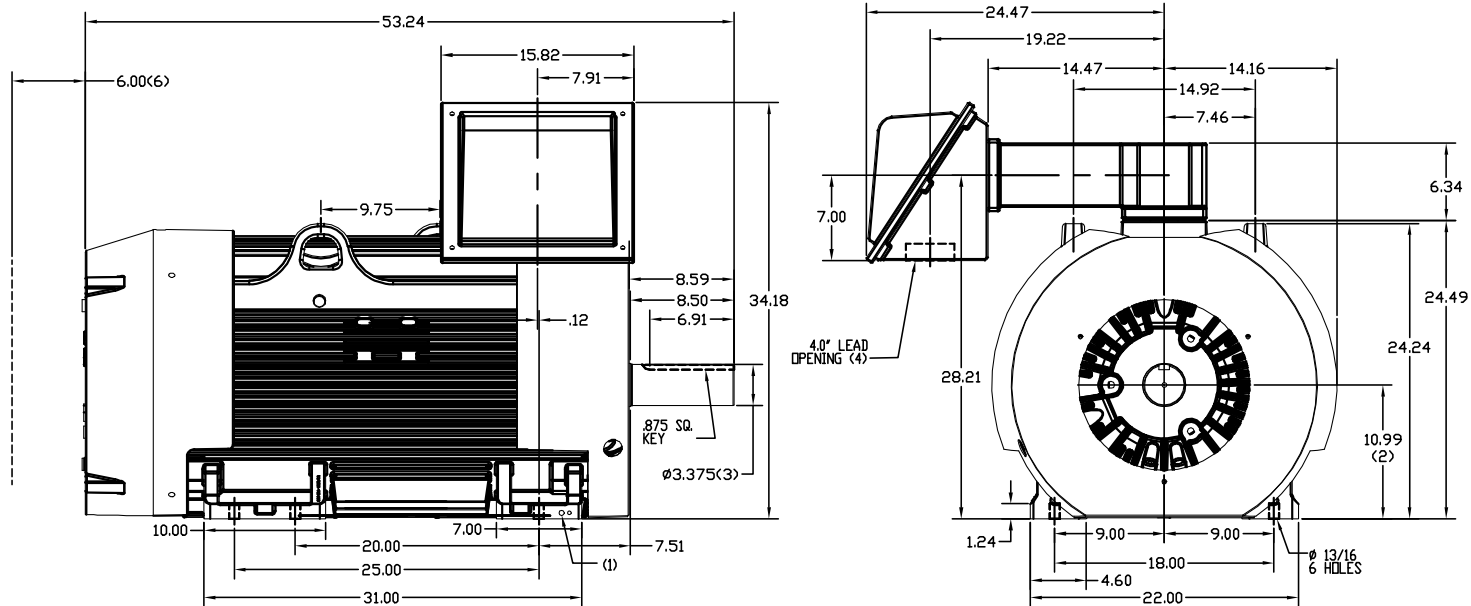
FRAME 449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447T FRAME MOUNTING HOLES

841-XL



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 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCRDACH 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 .0015" T.I.R. FOR BALL BEARING MOTORS
AND .002" T.I.R. FOR ROLLER BEARING MOTORS TO 6.5 INCH DIA.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: ADD DRIVE END AIR DEFLECTOR

REV. LTR: A

VERSION: 01

TDR: 000000543699

FILE: \RAG\00009\055

REVISED: 08:55:21 06/04/2010

MTL: -

BY: RAGEC

BALDOR

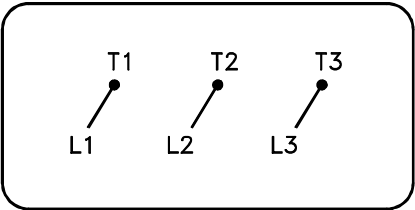
DIM SHEET G447/449T TEFC HORZ FT MTG 841-XL

SH 1 of 1

617423-016

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