

ABB BALDOR RELIANCE III

Customer information packet

ECP849206T-4

200HP, 1190RPM, 3PH, 60HZ, 449T, A44160M, 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	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	225.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	225.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG

Part Detail

Revision	X
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A44WG1497
Layout	617423-016
Eff. date	09-29-2026
CD Diagram	416820-036
Poles	06
Leads	3#1 (02 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	62.1 a
Number of Poles	6
Overall Length	53.24 IN
Power Factor	87
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	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

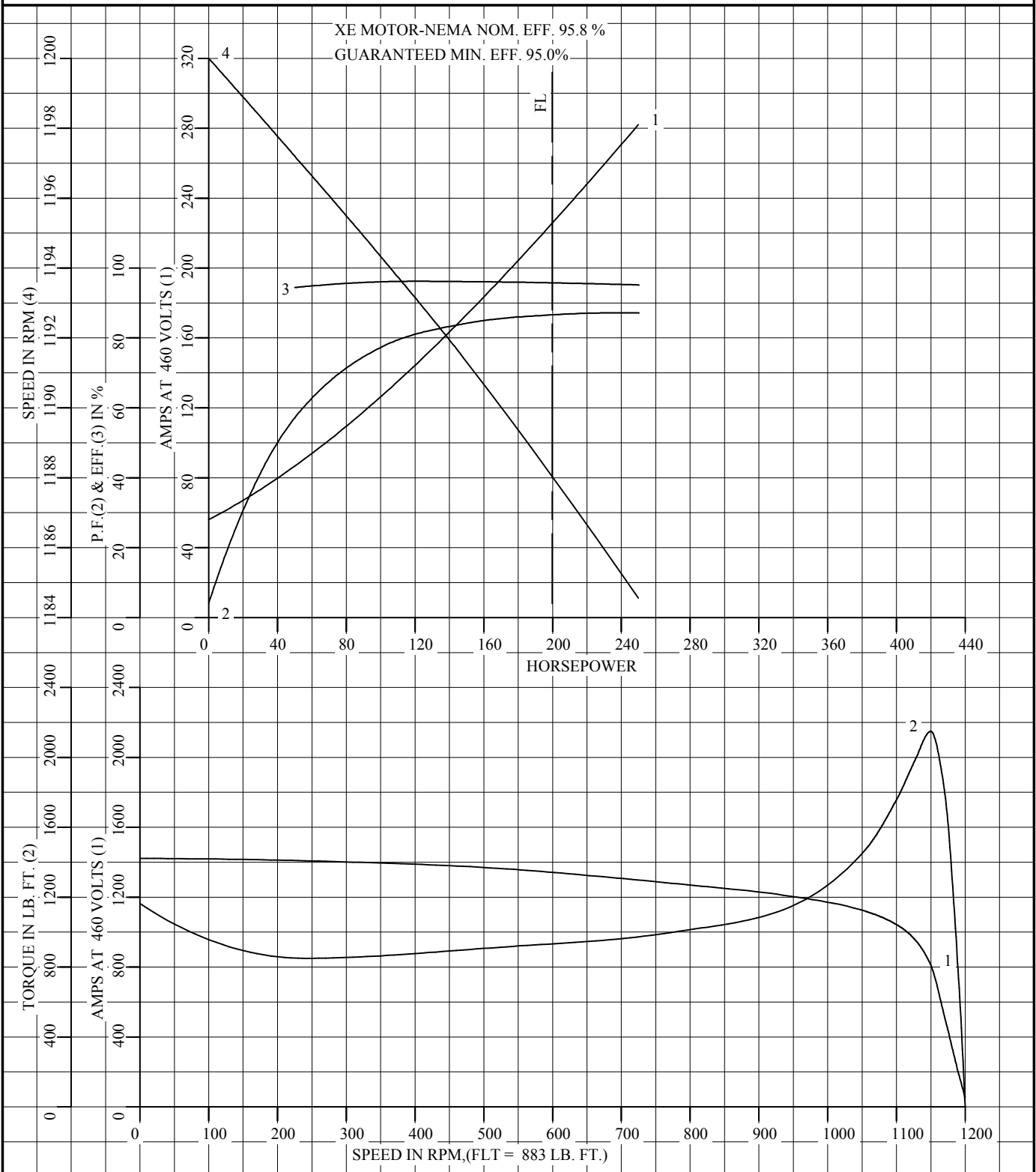
000613007ET												
CAT NO	ECP849206T-4			SPEC NO.			P44G3753					
HP	200	AMPS	225			VOLTS	460			DESIGN	B	
FRAME SIZE	449T	RPM	1190			HZ	60	AMB	40	SF	1.15	
D.E. BRG.	90BC03J30X			PH	3	DUTY	CONT			INSUL.CLASS F		
O.D.E. BRG.	90BC03J30X			TYPE	P	ENCL	TEFC	CODE	G			
D.E.BRG.DATA	6318			POWER FACTOR			87			NEMA-NOM-EFFICIENCY 95.8		
O.D.E.BRG.DATA	6318			MAX CORR KVAR			35.0			GUARANTEED EFFICIENCY 95.0		
3/4 LOAD EFF.	95.8			NEMA NOM/CSA QUOTED EFF								
SER.NO.				MOTOR WEIGHT				3085				

000613007EX				
CAT NO	ECP849206T-4	SPEC NO.	P44G3753	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		62.1
5 YEAR WARRANTY		WINDING RES @25 C	.02210	OHMS
MFG. DATE		SER.NO		

000692000UJ					
TCODE	T3	TEMP	200	CL I DIV 2 GR	ABCD
CL.1,ZONE 2,GR	IIAIIIBIIC	CL II DIV 2 GR		X X X	
MOTOR I.D. NO.					

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	449T	200	P	3/60	1190	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
225	CONT	40/F	1.15	B	G	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
833245	418143-98-XE	---	---	.0220				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	56.0	1200	4.16	0			
1/4	50.1	86.8	1197	57.2	94.4			
2/4	100	126	1194	77.3	96.1			
3/4	150	173	1191	84.2	96.1			
4/4	200	226	1188	86.6	95.8			
5/4	250	282	1185	87.2	95.2			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	132	1163	1422			
PULL UP		240	96.3	850	1408			
BREAKDOWN		1150	243	2149	811			
FULL LOAD		1188	100	883	226			
AMPERES SHOWN FOR 460. 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. 95.8 % GUARANTEED MIN. EFF. 95.0%								
		DR. BY	G. R. WEBB	A-C MOTOR PERFORMANCE DATA				
		CK. BY	W. L. SMITH					
		APP. BY	W. L. SMITH					
		DATE	10/08/10					
				A44WG1497-R001 ISSUE DATE 01/06/21				

REL S.O.	RPM 1190	S.F. 1.15	ROTOR 418143-98-XE
FRAME 449T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 200	AMPS 225	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0220
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833245	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

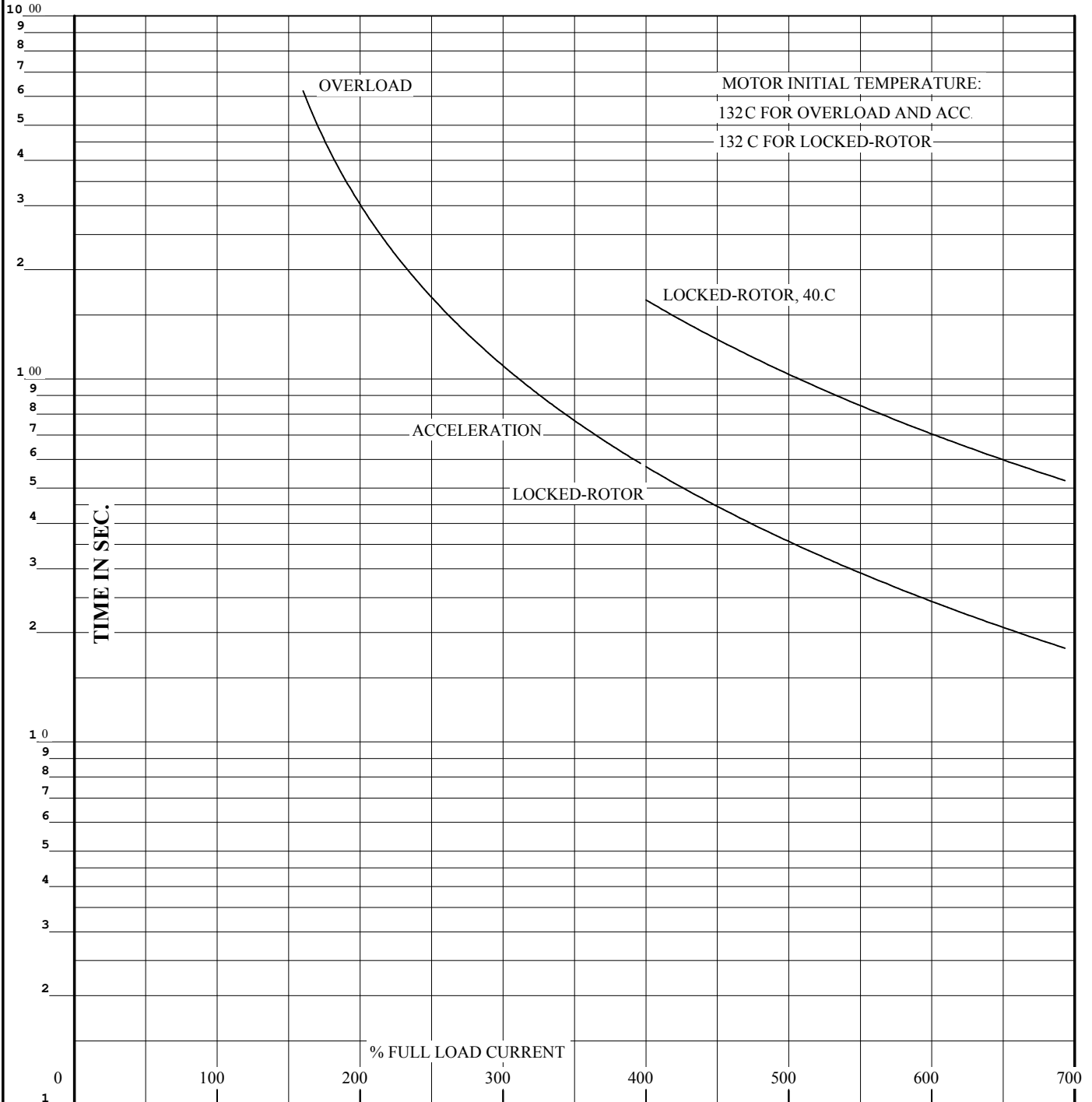
DR. BY G. R. WEBB
 CK. BY W. L. SMITH
 APP. BY W. L. SMITH
 DATE 10/08/10

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG1497-R001

ISSUE DATE **01/06/21** Page 8 of 11

REL. S.O.	RPM 1190	S.F. 1.15	ROTOR 418143-98-XE
FRAME 449T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 200	AMPS 225	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0220
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833245	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 %
GUARANTEED MIN. EFF. 95.0%

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



DR. BY	G. R. WEBB
CK. BY	W. L. SMITH
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**A-C MOTOR
PERFORMANCE
CURVES**

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ISSUE DATE 01/06/21 Page 9 of 11

617423-016

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

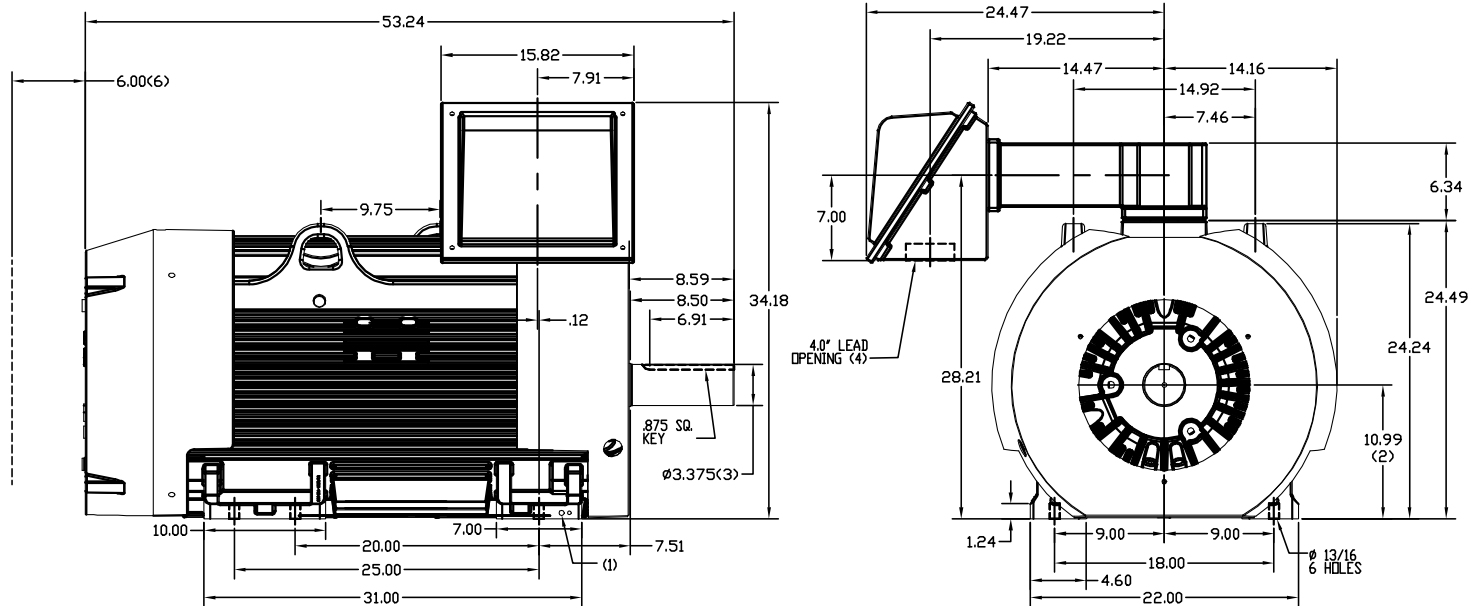
FRAME 449T ABOVE NEMA RATINGS

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

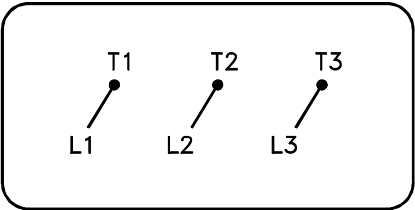
DIM SHEET G447/449T TEFC HORZ FT MTG 841-XL

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