

ABB BALDOR RELIANCE III

Customer information packet

ECP84916T-4

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

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	447TS
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	3600 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	213.000 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	T2D
Heater Indicator	No Heater
High Voltage Full Load Amps	213.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG

Part Detail

Revision	Y
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A44WG1504
Layout	617423-020
Eff. date	09-29-2026
CD Diagram	416820-036
Poles	02
Leads	3#1 (02 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A44104M
Mounting Arrangement	F1
No Load Current	37.9 a
Number of Poles	2
Overall Length	43.92 IN
Power Factor	91
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	Phase Seq-Std Rot (CCWODE)
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

000613007ET														
CAT NO	ECP84916T-4			SPEC NO.			P44G3767							
HP	200	AMPS		213			VOLTS		460		DESIGN		B	
FRAME SIZE	447TS	RPM		3570			HZ		60	AMB		40	SF	1.15
D.E. BRG.	65BC03J30X			PH		3	DUTY		CONT		INSUL.CLASS			F
O.D.E. BRG.	65BC03J30X			TYPE		P	ENCL		TEFC	CODE		G		
D.E.BRG.DATA	6313			POWER FACTOR				91			NEMA-NOM-EFFICIENCY			96.2
O.D.E.BRG.DATA	6313			MAX CORR KVAR				21.0			GUARANTEED EFFICIENCY			95.8
3/4 LOAD EFF.	96.2			NEMA NOM/CSA QUOTED EFF										
SER.NO.				MOTOR WEIGHT					2433					

000613007EX				
CAT NO	ECP84916T-4	SPEC NO.	P44G3767	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		37.9
5 YEAR WARRANTY		WINDING RES @25 C	.01446	OHMS
MFG. DATE		SER.NO		

000692000UJ					
TCODE	T2D	TEMP	215	CL I DIV 2 GR	ABCD
CL.1,ZONE 2,GR	IIAIIIBIIC	CL II DIV 2 GR		X X X	
MOTOR I.D. NO.					

ECP84916T-4 - 200HP, 3570RPM, 3PH, 60HZ, 447TS, A44104M, TEF						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET 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
213	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833199	418143005AE	---	---	.0144		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	46.4	3600	5.92	0	
1/4	50.0	78.6	3593	63.5	93.9	
2/4	100	118	3586	82.6	96.0	
3/4	150	164	3578	88.7	96.3	
4/4	200	213	3571	91.1	96.2	
5/4	250	265	3562	92.0	95.9	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	151	444	1446	
PULL UP		288	124	363	1331	
BREAKDOWN		3462	281	825	730	
FULL LOAD		3571	100	294	213	
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>		AC MOTOR PERFORMANCE DATA	A44WG1504-R001 DATE ISSUED 12/18/10	
		CHECKED BY: <u>J.J.HARRISON</u>				
		APPROVED BY: <u>W. L. SMITH</u>				
		DATE: <u>08/04/10</u>				

FRAME 447TS

RPM 3570

S.F. 1.15

ROTOR 418143005AE

HP 200

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 213

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

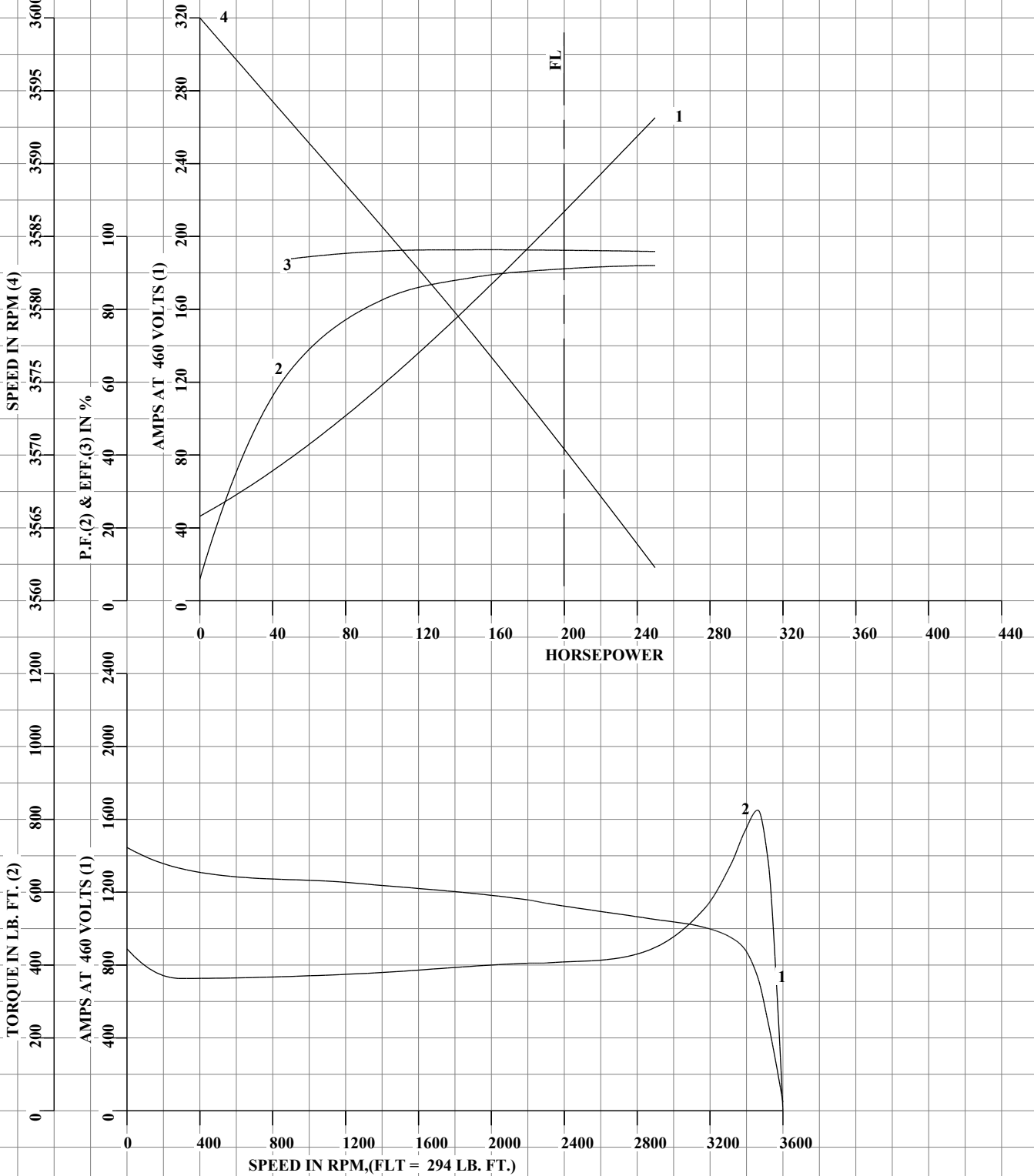
ENCLOSURE TEFC

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.



DRAWN BY: W. L. SMITH
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 DATE: 08/04/10

AC MOTOR
 PERFORMANCE
 DATA

A44WG1504-R001

ISSUE DATE 12/18/10

FRAME 447TS

RPM 3570

S.F. 1.15

ROTOR 418143005AE

HP 200

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 213

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

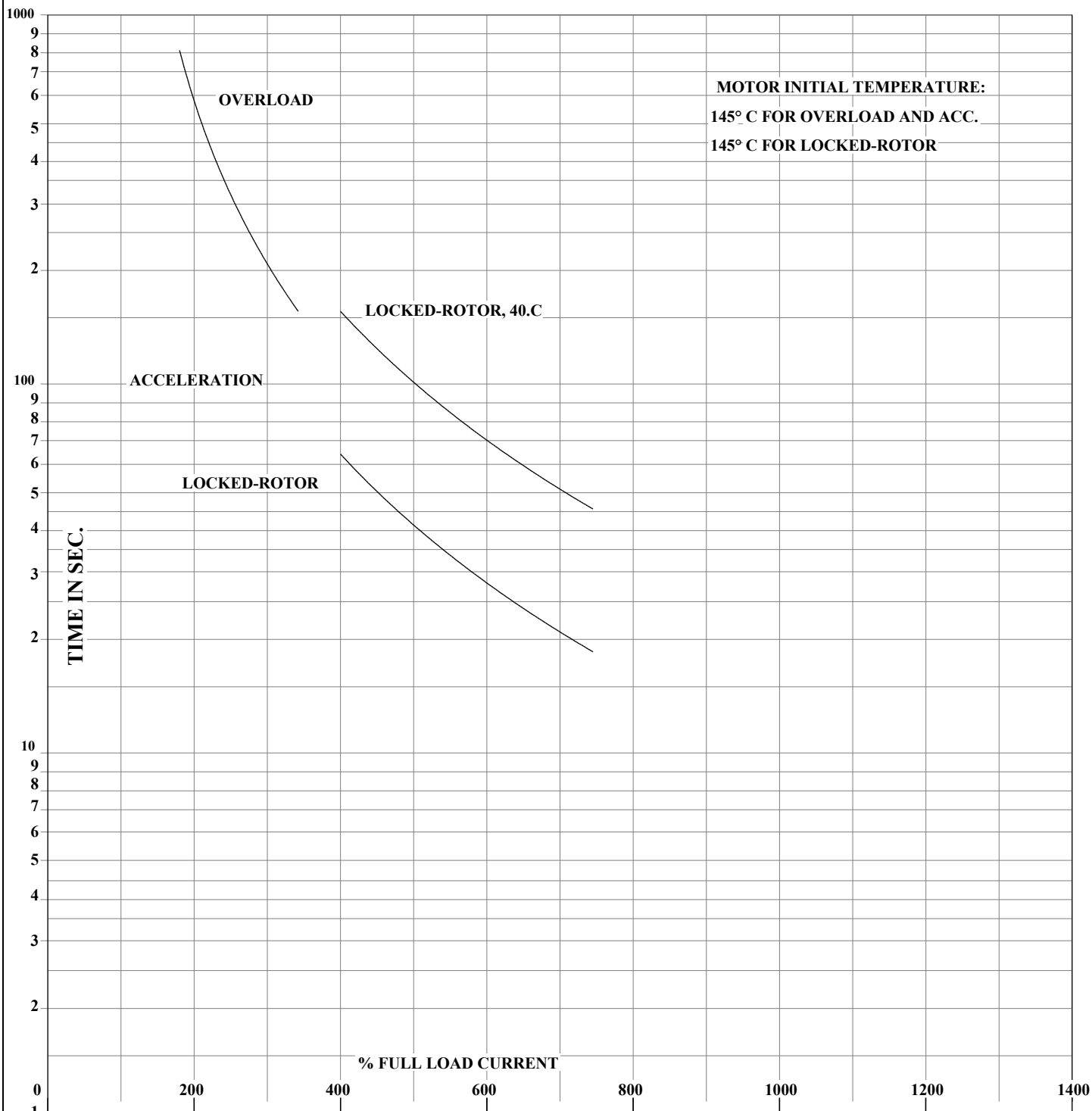
ENCLOSURE TEFC

STATOR RES. @ 25°C .0144

AMB °C / INSUL 40/F

E/S 833199

OHMS (BETWEEN LINES)



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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DATE: 08/04/10

AC MOTOR
PERFORMANCE
DATA

A44WG1504-R001

ISSUE DATE 12/18/10

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

617423-020

ENCLOSURE: TOTALLY ENCLOSED

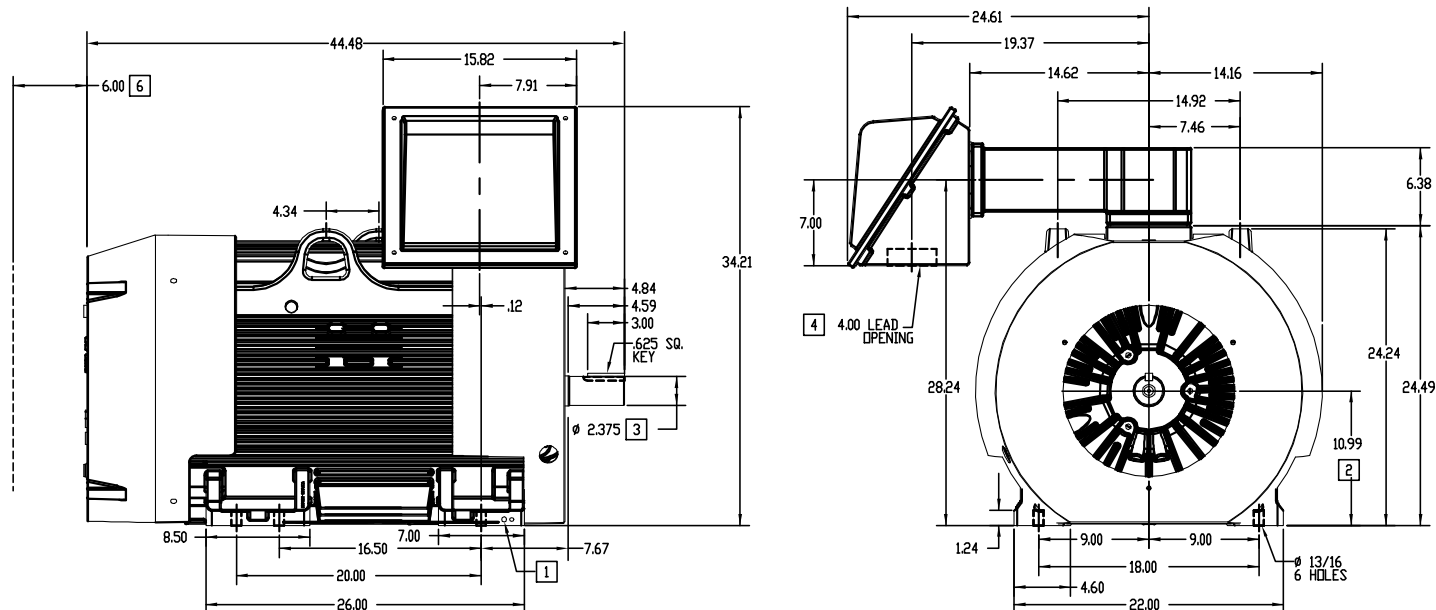
FRAME G447 ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS 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 +.00, -.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 5 INCH DIA.

WEIGHT (LBS): 2495

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

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

REV. DESC: REVISE DIMENSIONS

REV. LTR: A

VERSION: 01

TDR: 000000578889

FILE: \RAG\00009\331

REVISED: 08:45:04 01/31/2011

MTL: -

BY: RAGEC

BALDOR

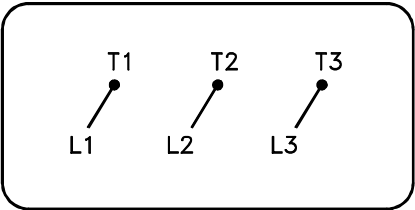
DIM SHEET G445/447TS TEFC HORZ FT MTG 841-XL

SH 1 of 1

617423-020

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