

ABB BALDOR RELIANCE III

Customer information packet

ECR91006TR-4

100HP, 1190RPM, 3PH, 60HZ, 444T, A44084M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	6-60
Current @ Voltage	119.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	No Lifting Lugs
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1491
Layout	617427-315
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	01-30-2015

Motor Standards	NEMA
Motor Type	A44084M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	83
Product Family	Crusher / Chipper
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.25
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007PV														
CAT NO	ECR91006TR-4				SPEC NO.		P44G1805							
HP	100	AMPS	119			VOLTS		460		DESIGN		A		
RPM	1190	RPM MAX		3000		HZ	60	AMB	40	SF		1.25		
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA				6318		PH	3	DUTY	CONT	INSUL.CLASS	F
FRAME	444T		I.P.	55	TYPE	P	ENCL	TEFC	CODE	H				
POWER FACTOR	83	3/4 LOAD EFF.				95.0			NEMA NOM EFFICIENCY				95	
CHP HZ	60-90	CT HZ		6-60		VT HZ		6-60						
SER.NO.					MOTOR WEIGHT									
	1.25SF AMPS= 146													

NP2496L	
MOBIL SHC -220 GREASE	

REL. S.O.

 RPM **1190**

 S.F. **1.25**

 ROTOR **418143098RE**

 FRAME **444T**

 VOLTS **460**

 NEMA DESIGN **A**

 TEST S.O. **TYPICAL DATA**

 HP **100**

 AMPS **119**

 CODE LETTER **H**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

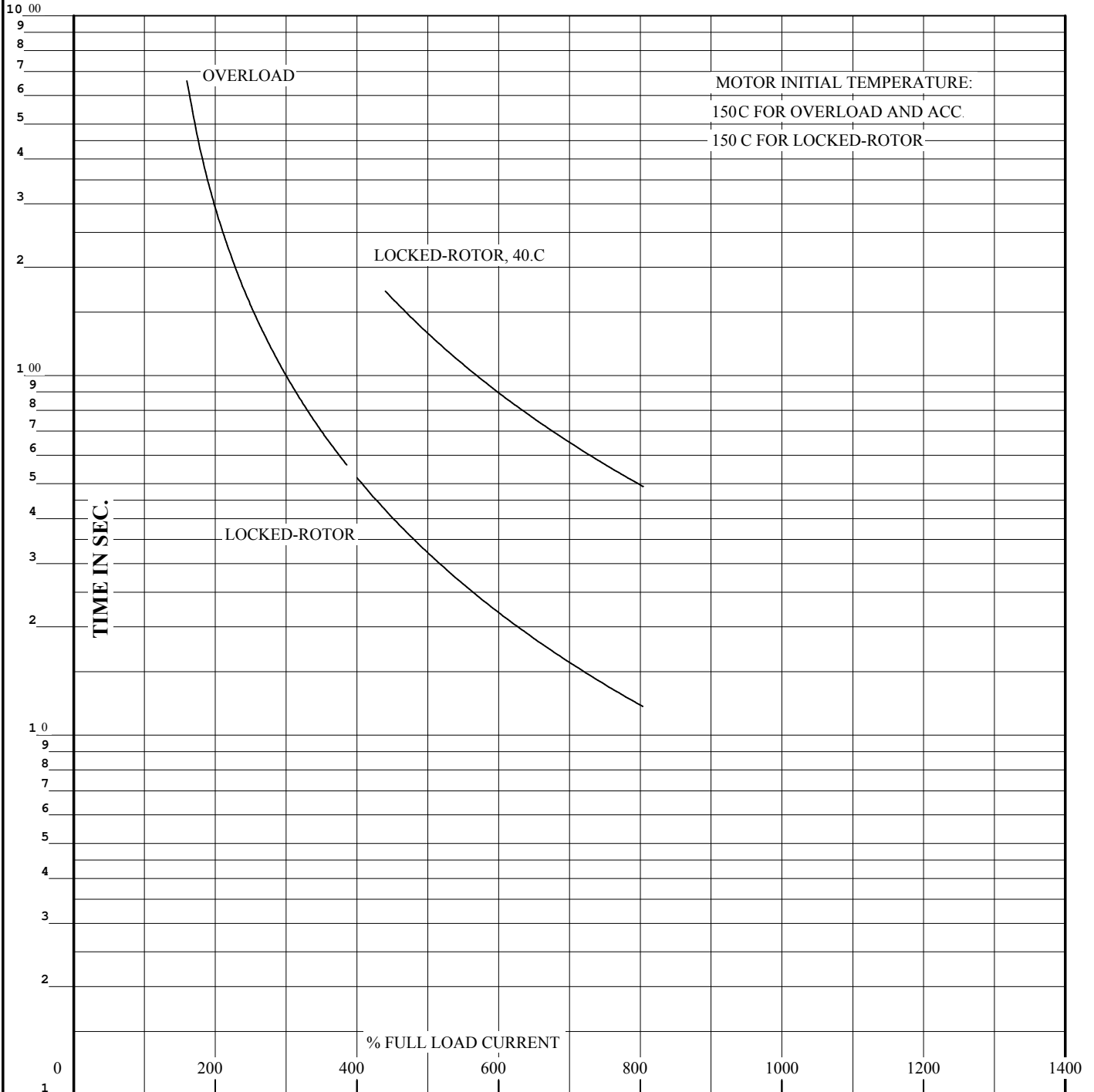
 STATOR RES. @ 25 °C **.0434**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **497773**

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
A MEMBER OF THE ABB GROUP

 DR. BY W.L. SMITH
 CK. BY J.J. HARRISON
 APP. BY W.L. SMITH
 DATE 06/29/10
**A-C MOTOR
PERFORMANCE
CURVES**
A44WG1491-R002

 ISSUE DATE 12/18/10 Page 6 of 11

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
119	CONT	40/F	1.25	A	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
497773	418143098RE	---	---	.0434		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	34.5	1200	5.37	0	
1/4	25.0	54.7	1197	46.7	91.7	
2/4	50.0	71.9	1194	68.8	94.6	
3/4	75.0	93.8	1191	78.6	95.2	
4/4	100	119	1188	82.9	95.1	
5/4	125	146	1185	84.8	94.6	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	226	998	868		
PULL UP	840	223	988	625		
BREAKDOWN	1143	273	1207	458		
FULL LOAD	1188	100	442	119		
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 W. L. SMITH CK. BY J. J. HARRISON APP. BY W. L. SMITH DATE 06/29/10		A-C MOTOR PERFORMANCE DATA A44WG1491-R002 ISSUE DATE 12/18/10		

REL S.O.

RPM 1190

S.F. 1.25

ROTOR 418143098RE

FRAME 444T

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

HP 100

AMPS 119

CODE LETTER H

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

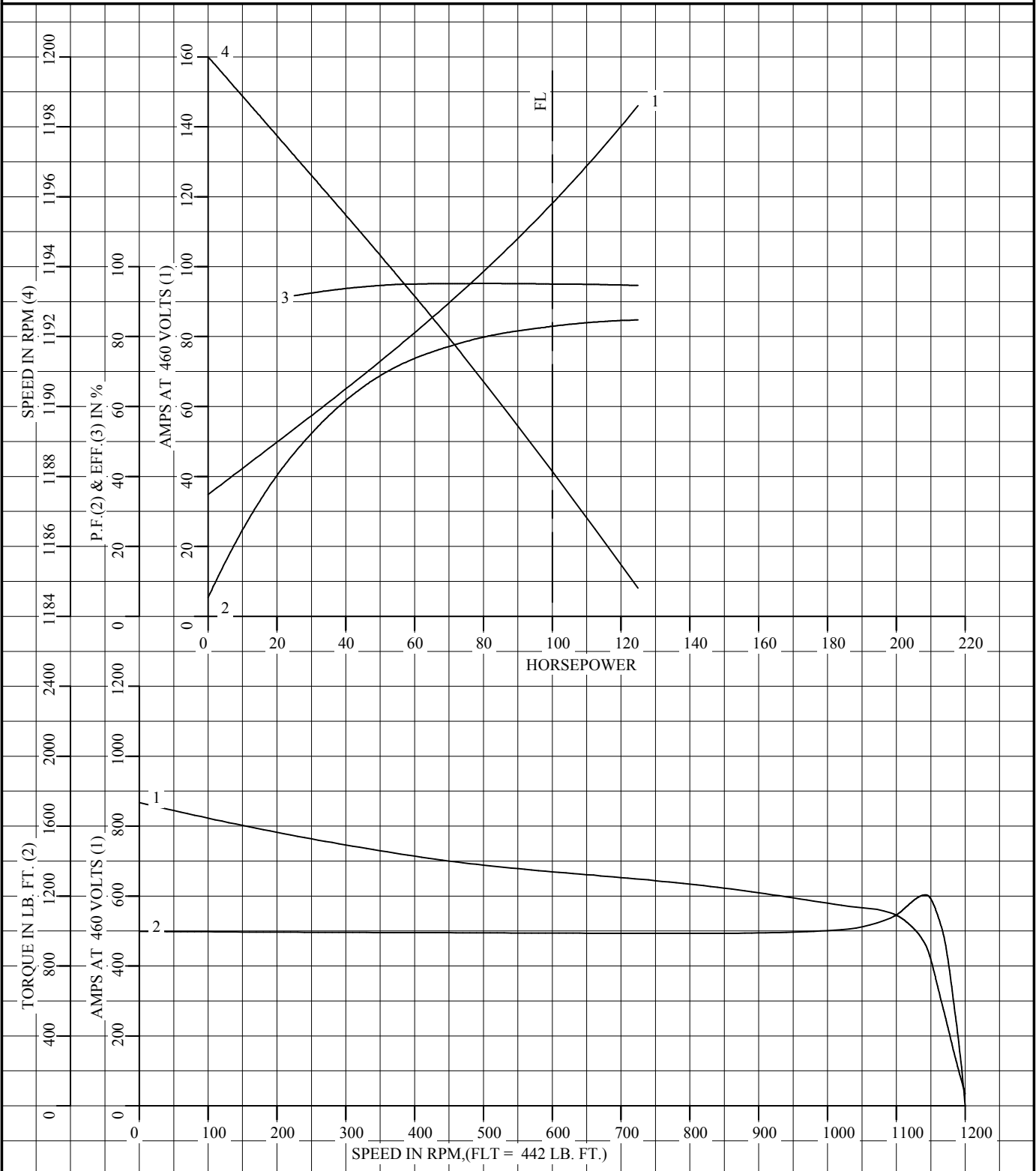
STATOR RES. @ 25 °C .0434

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497773

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

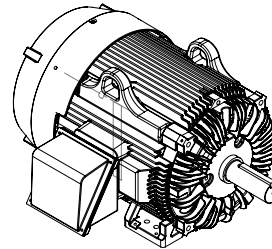
DR. BY W. L. SMITH
CK. BY J. J. HARRISON
APP. BY W. L. SMITH
DATE 06/29/10

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG1491-R002
ISSUE DATE 12/18/10

617427-315

FRAMES G445T/444T



G445T/444T STD - FOOTED - SIDE/CENTER C.I. C/B ROLLER BRG

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

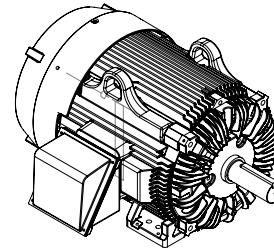
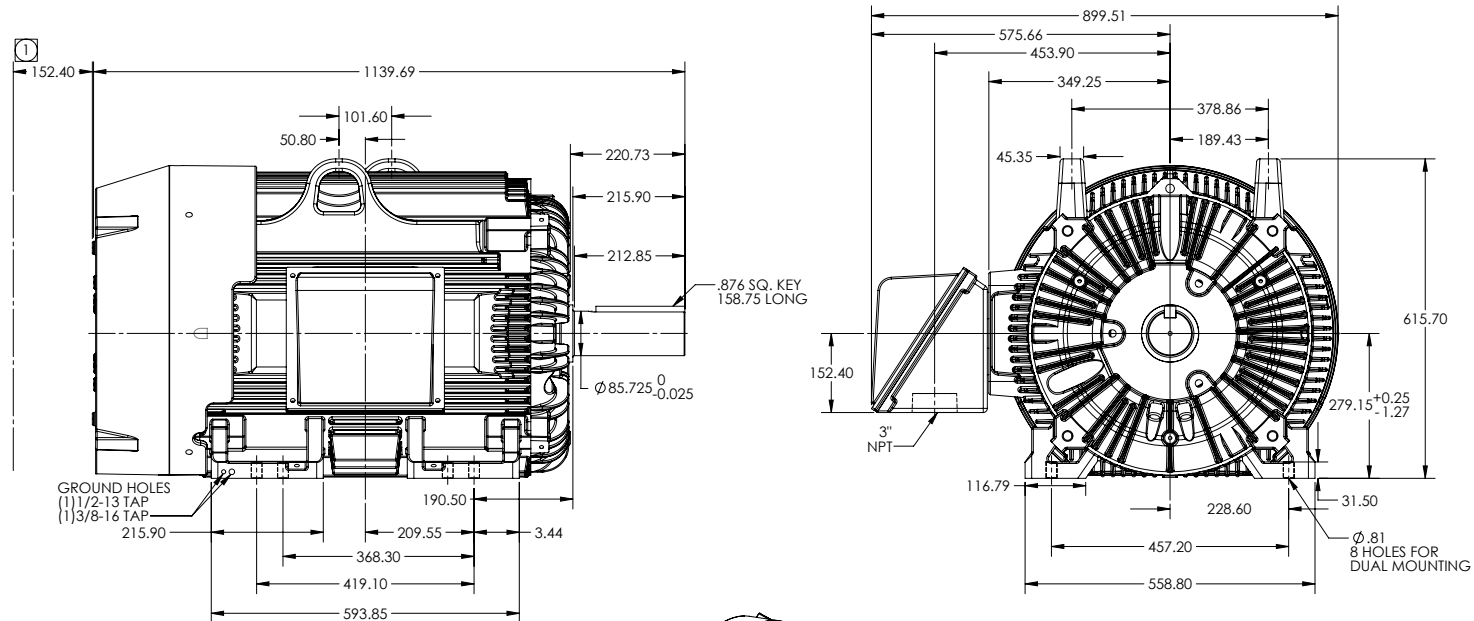
617427-315

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT

FRAMES G445T/444T

COOLING: FAN COOLED



① OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED

DIMENSIONS ARE IN MILLIMETERS FOR INCHES SEE SHEET 1

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

SHEET NUMBER
2 OF 2

51E-2727-119

REV. DESC: NEW
REV: - VERSION: 00
MODEL NO. 617427-315
BY: RAGAHJ

REVISED: 09/06/36 12/05/2014

TDR: 000000881952

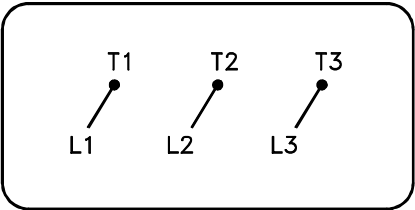
BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C.I. C/B ROLLER BRG

617427-315

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