

ABB BALDOR RELIANCE III

Customer information packet

ECR91254T-4

125HP, 1785RPM, 3PH, 60HZ, 444T, A44078M, 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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	149.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	149.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1492
Layout	617427-315
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	01-30-2015

Motor Type	A44078M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	81
Product Family	Other
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	Reversible
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

000613007PV															
CAT NO	ECR91254T-4			SPEC NO.		P44G1806									
HP	125	AMPS		149		VOLTS		460		DESIGN		A			
RPM	1785	RPM MAX		3600		HZ		60	AMB		40	SF	1.15		
D.E. BRG.DATA	6318		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	81		3/4 LOAD EFF.				95.4		NEMA NOM EFFICIENCY				95.4		
CHP HZ	60-90		CT HZ		6-60		VT HZ		6-60						
SER.NO.				MOTOR WEIGHT											
	VPWM INVERTER DUTY														

NP2496L	
MOBIL POLYREX EM	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	125	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
149	CONT	40/F	1.15	A	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
497776	418143052HE	---	---	.0315		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	53.5	1800	3.75	0	
1/4	31.3	73.9	1797	42.8	92.6	
2/4	62.5	93.9	1793	65.5	95.2	
3/4	93.7	120	1790	76.3	95.6	
4/4	125	151	1786	81.4	95.5	
5/4	156	184	1782	83.8	95.1	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	235	865	1005	
PULL UP		1440	181	665	700	
BREAKDOWN		1733	286	1051	524	
FULL LOAD		1786	100	368	151	
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 07/13/10		A-C MOTOR PERFORMANCE A44WG1492-R001 DATA ISSUE DATE 12/18/10		

FRAME 444T

RPM 1785 VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

HP 125

AMPS 149

CODE LETTER H

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

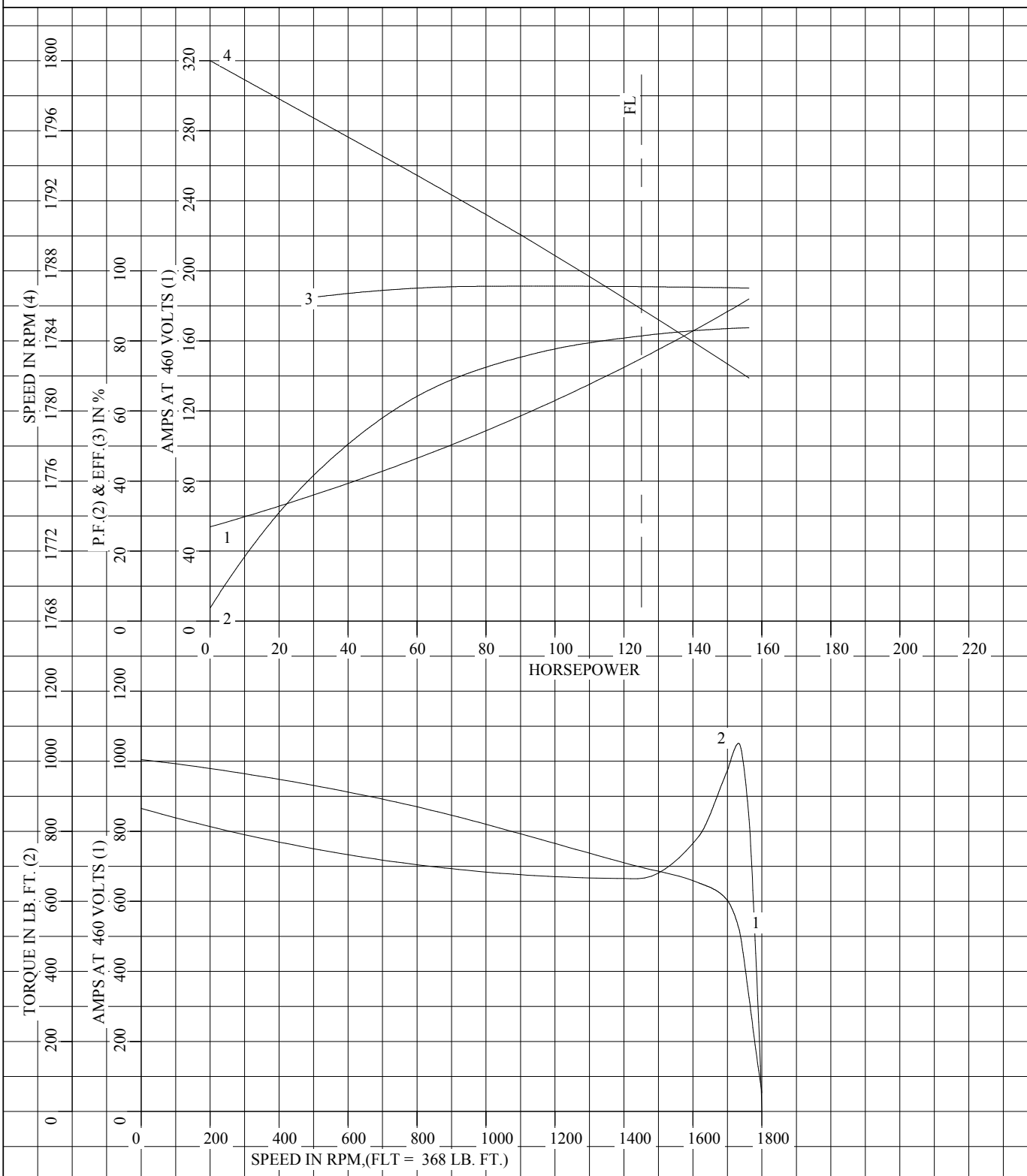
STATOR RES. @ 25 °C .0315

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497776

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 W. L. SMITH
CK. BY J.J. HARRISON
APP. BY W. L. SMITH
DATE 07/13/10

**A-C MOTOR
PERFORMANCE CURVES** A44WG1492-R001
ISSUE DATE 12/18/10

REL. S.O.

RPM 1785

S.F. 1.15

ROTOR 418143052HE

FRAME 444T

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

HP 125

AMPS 149

CODE LETTER H

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

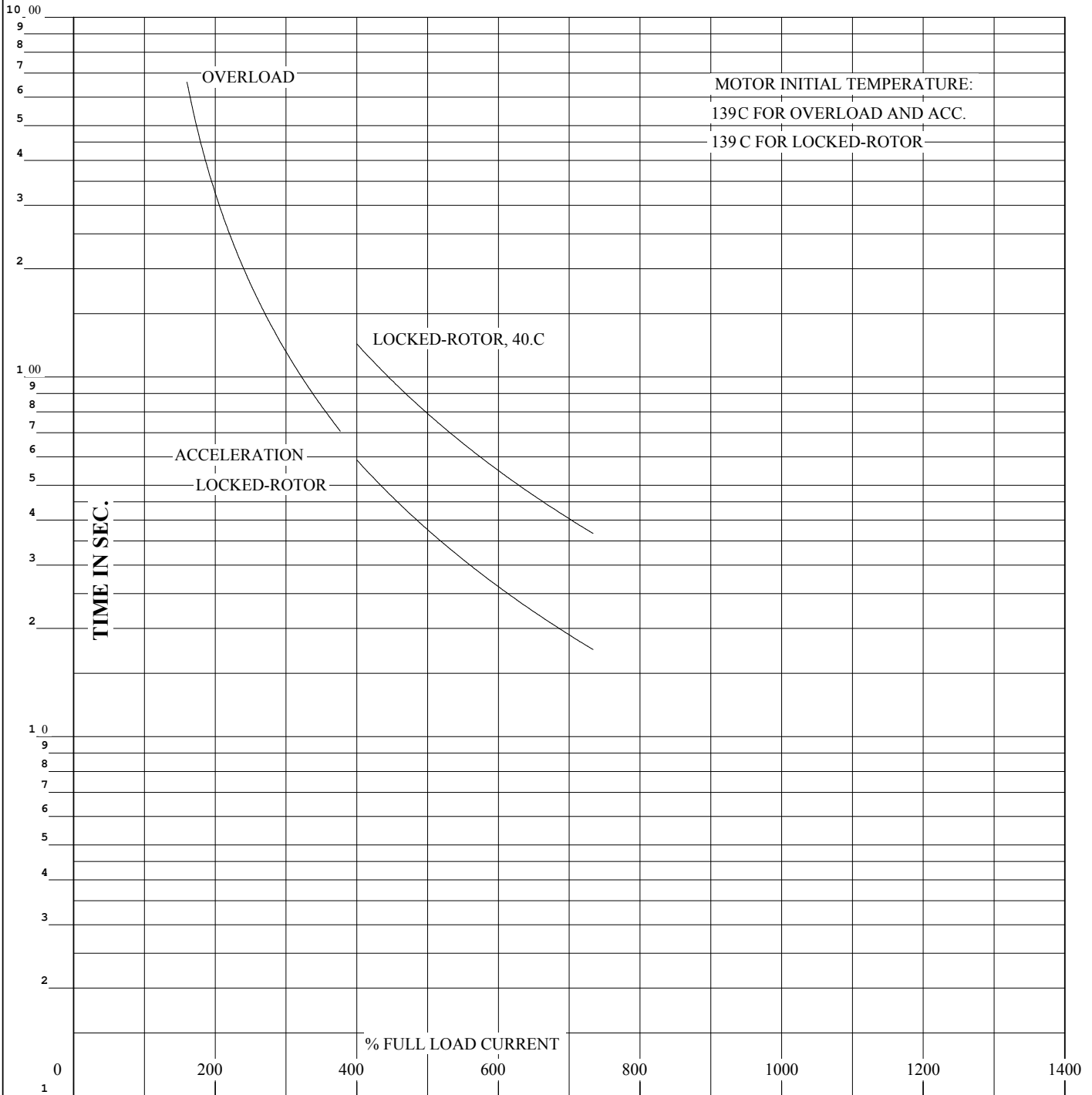
STATOR RES. @ 25 °C .0315

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 497776

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.

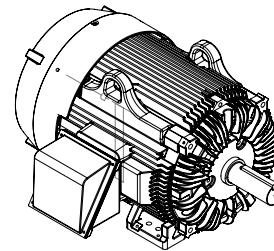
BALDOR

DR. BY W. L. SMITH
CK. BY J.J.HARRISON
APP. BY W. L. SMITH
DATE 07/13/10

**A-C MOTOR
PERFORMANCE A44WG1492-R001
CURVES** ISSUE DATE 12/18/10

617427-315

FRAMES G445T/444T



617427-319

DUTY MASTER ALTERNATING CURRENT MOTORS SQUIRREL-CAGE INDUCTION

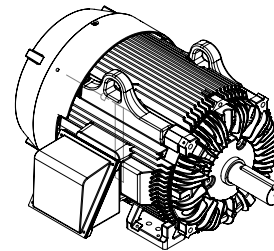
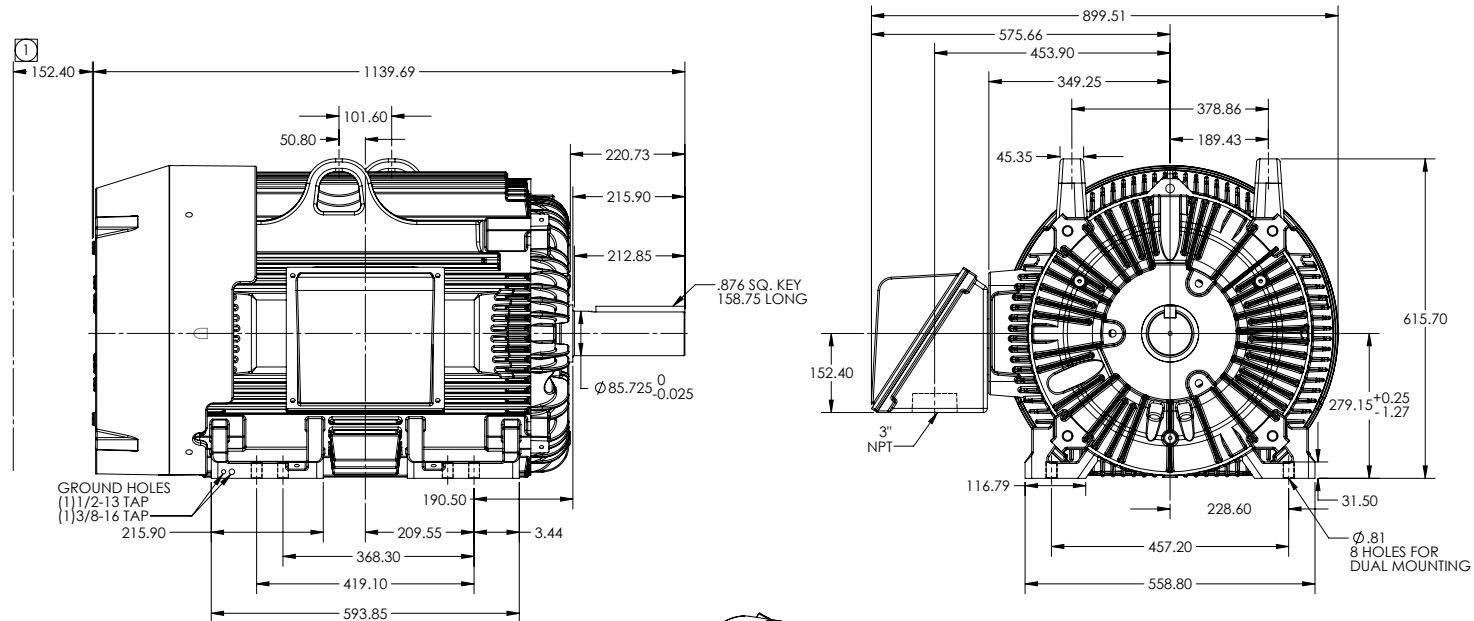
617427-315

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-27-119

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

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

TDR: 000000881952

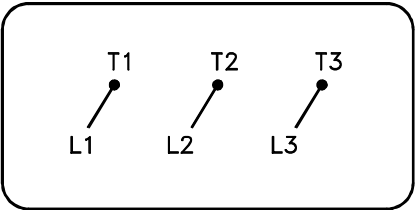
BALDOR

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