



Customer information packet

ECP4408T-5

250HP, 1785RPM, 3PH, 60HZ, 449T, TEFC, F1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
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	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	30-60
Current @ Voltage	219.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	219.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	NEMA

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5260
Layout	617427-243
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 (02 per group)
Proprietary	False
Created date	08-23-2017

Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.47 IN
Power Factor	89
Product Family	General Industrial
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	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

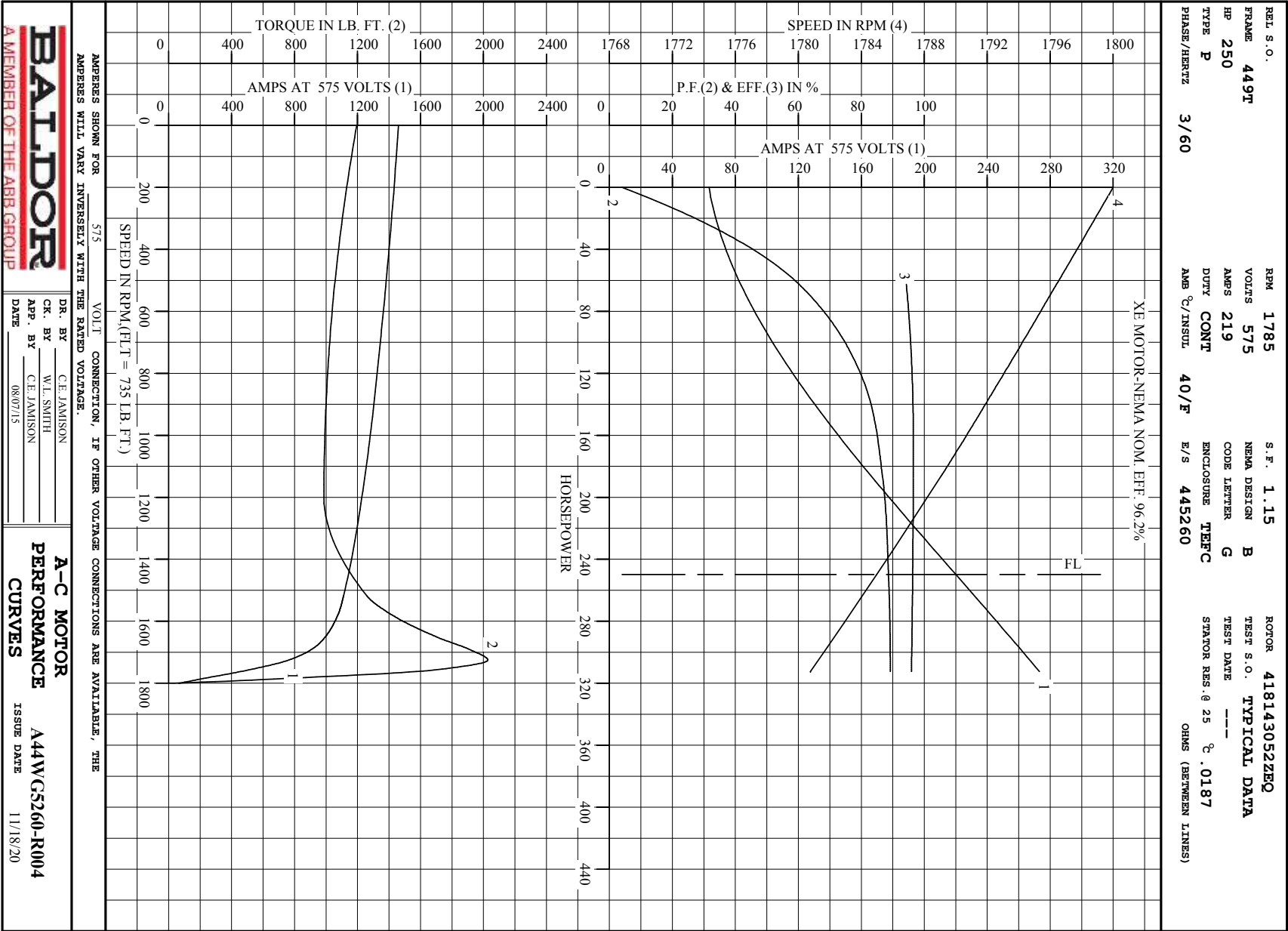
Nameplate

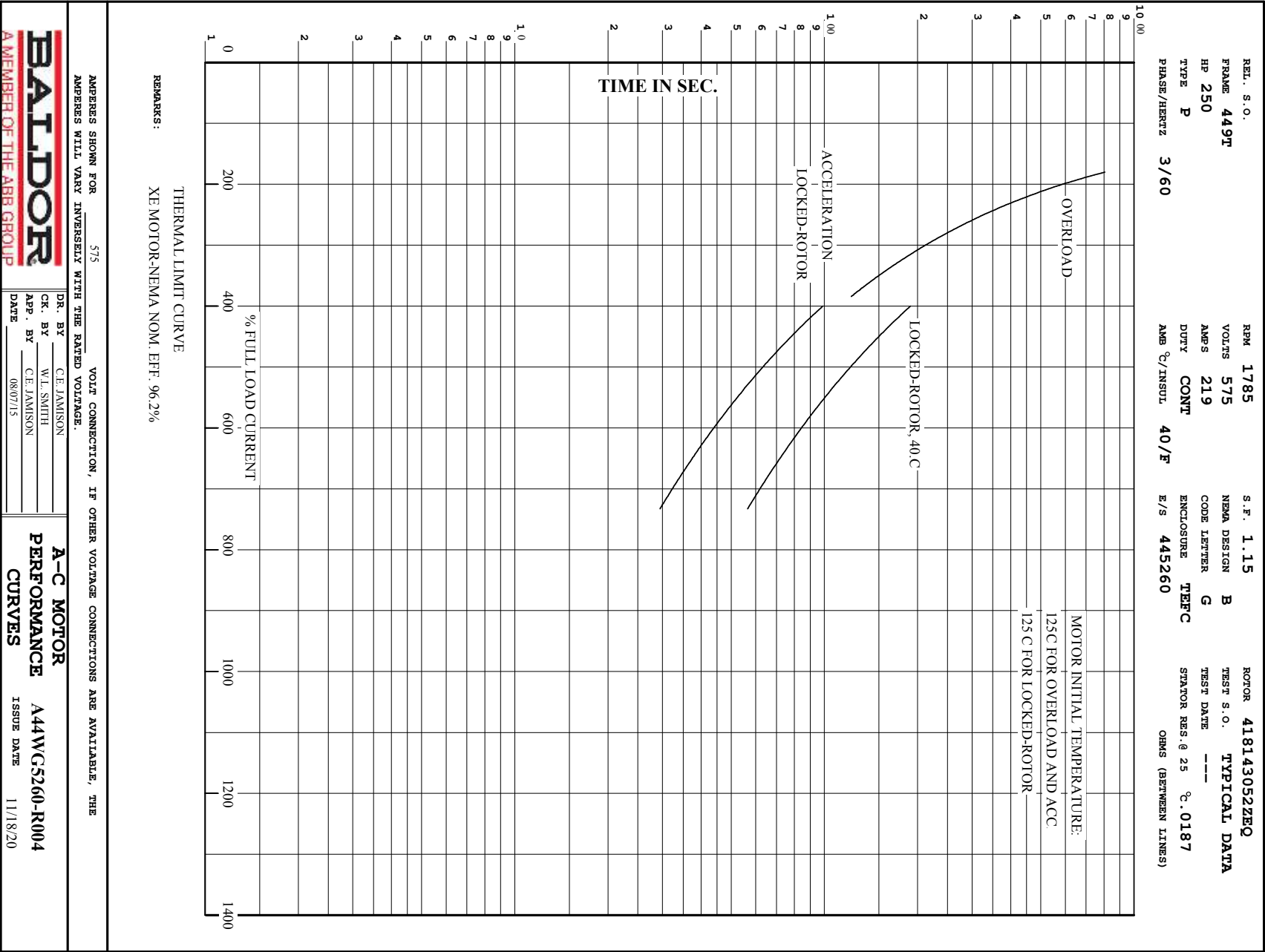
NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	ECP4408T-5				SPEC NO.		A44-8946-5260						
HP	250	AMPS	219		VOLTS		575		DESIGN	B			
FRAME	449T	RPM	1785	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
D.E. BRG.	90BC03J30X				TYPE	P	ENCL	TEFC	CODE	G			
O.D.E. BRG.	90BC03J30X				POWER FACTOR			89		NEMA NOM EFFICIENCY			96.2
3/4 LOAD EFF.	96.5		MAX CORR KVAR			37		GUARANTEED EFFICIENCY			95.4		
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-90		CT HZ	30-60		VT HZ	0-60						
INVERTER-TEMP-CODE	T3												
SER.NO.					MOTOR WEIGHT								

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	449T	250	P	3/60	1785	575
AMPS	DUTY	AMB °C/INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
219	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
445260	418143052ZEQ	---	---	.0187		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %	
NO LOAD	0	63.6	1800	4.01	0	
1/4	62.5	82.5	1796	60.2	94.3	
2/4	125	121	1793	80.7	96.2	
3/4	187	168	1789	86.8	96.5	
4/4	250	219	1785	88.6	96.3	
5/4	313	273	1781	89.2	95.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	163	1195	1460		
PULL UP	1200	134	987	1228		
BREAKDOWN	1726	276	2027	761		
FULL LOAD	1785	100	735	219		
AMPERES SHOWN FOR 575. 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. 96.2%						
BALDOR			A-C MOTOR PERFORMANCE DATA			
DR. BY C. E. JAMISON CR. BY W. I. SMITH APP. BY C. E. JAMISON DATE 08/07/15			A44WG5260-R004 ISSUE DATE 11/18/20			
A MEMBER OF THE ABB GROUP						





DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

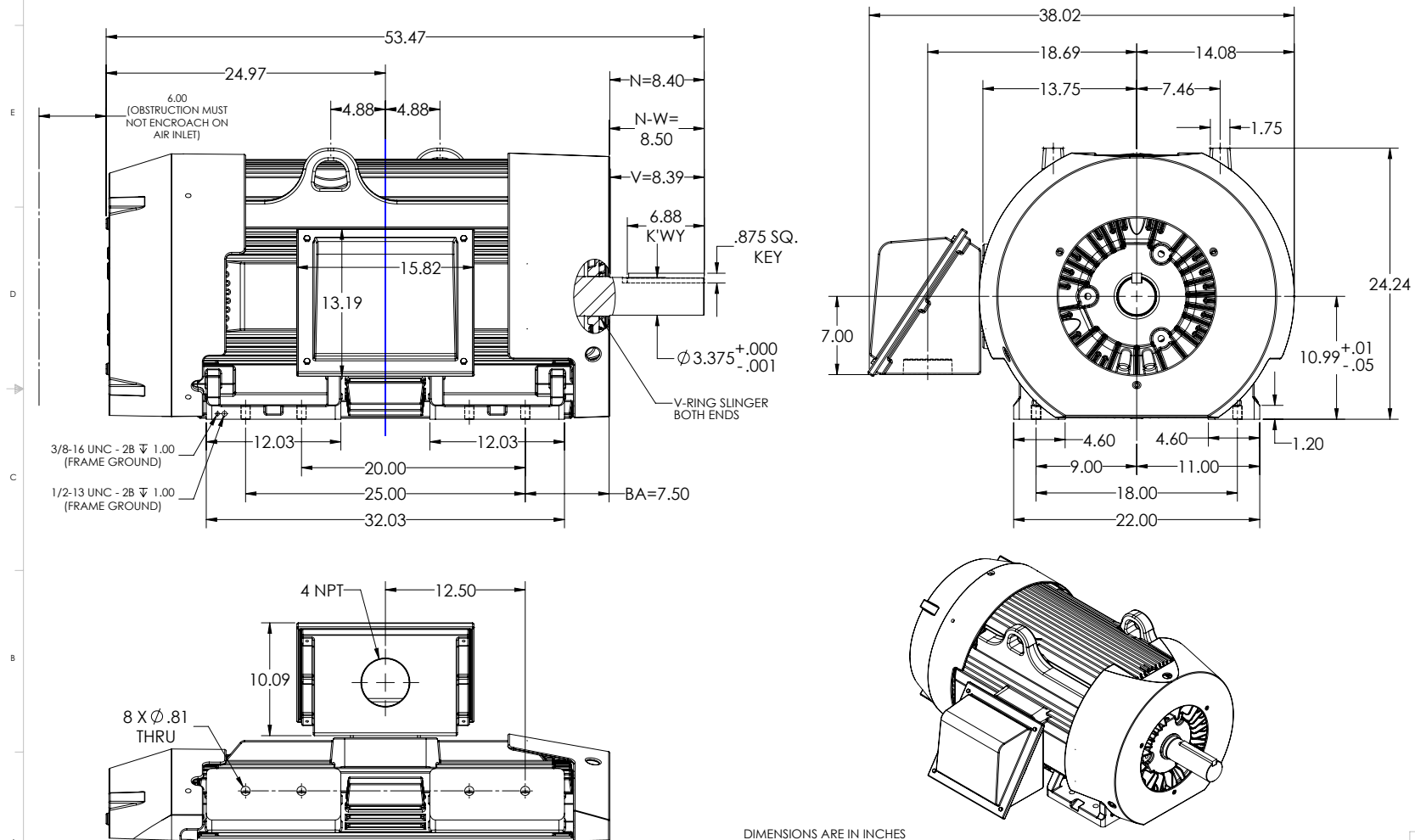
COOLING: FAN COOLED

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

FRAME G449T
INCLUDES G447T FRAME MOUNTING HOLES

V-RING SLINGER BOTH ENDS



DIMENSIONS ARE IN INCHES

WEIGHT (LBS.) 3045, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING

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

SHEET NUMBER
1 OF 1

617427-243

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: NEW DRAWING

REV: - VERSION: 00

REVISED: 11/33/27 02/03/2016

TDR: 000000961397

MODEL NO. 617427-243

BY: RAGRA

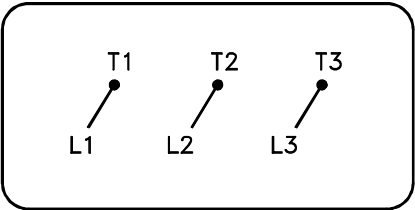
BALDOR

G449/447T TEFC F1 FT - V-RING SLINGERS - STD CI C/BOX

617427-243

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