ABB BALDOR RELIANCE

Customer information packet

ECP44304T-5

300HP, 1785RPM, 3PH, 60HZ, 449T, TEFC, F1
Class - None
Division - Division II

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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	300.000 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	267.000 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	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	267.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5582
Layout	617427-243
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (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	88
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	ECP44304T-5	**SPEC NO.**	A44-5000-5582									
HP	300	**AMPS**	267	**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**	88	**NEMA NOM EFFICIENCY**	96.2							
3/4 LOAD EFF.	96.4	**MAX CORR KVAR**	46	**GUARANTEED EFFICIENCY**	95.4							
TEMP CODE	T2C	**TEMP =**	230									
CHP HZ	60-90	**CT HZ**	30-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T2C											
SER.NO.		**MOTOR WEIGHT**										

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	300	P	3/60	1785	575

AMPS	DUTY	AMB°C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
267	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25°C OHMS (BETWEEN LINES)
---	418143052ZEQ	---	---	.0153

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	77.9	1800	4.36	0
1/4	75.0	101	1796	59.2	93.8
2/4	150	148	1792	79.4	96.0
3/4	225	205	1788	85.4	96.3
4/4	300	267	1783	87.5	96.2
5/4	375	332	1779	88.4	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	166	1469	1753
PULL UP	1200	139	1232	1401
BREAKDOWN	1723	277	2449	928
FULL LOAD	1783	100	884	267

AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

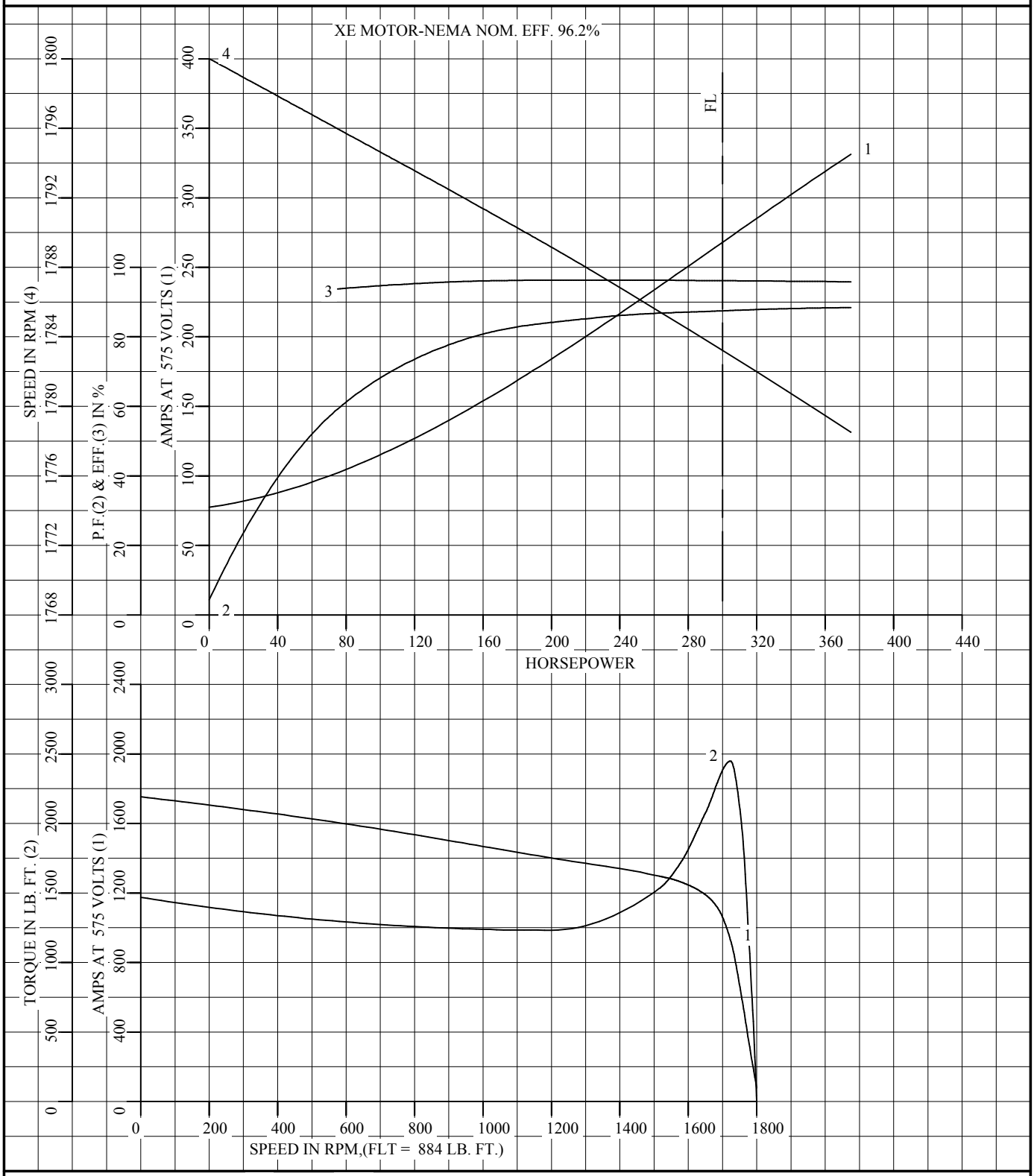
REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 96.2%

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C.E. JAMISON
CK. BY W.L. SMITH
APP. BY C.E.JAMISON
DATE 08/22/17

A-C MOTOR PERFORMANCE DATA A44WG5582-R001
ISSUE DATE 06/19/18

REL S.O.		RPM	1785	S.F.	1.15	ROTOR	418143052ZEQ
FRAME	449T	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	300	AMPS	267	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 ℃	.0153
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	E/S	---		OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

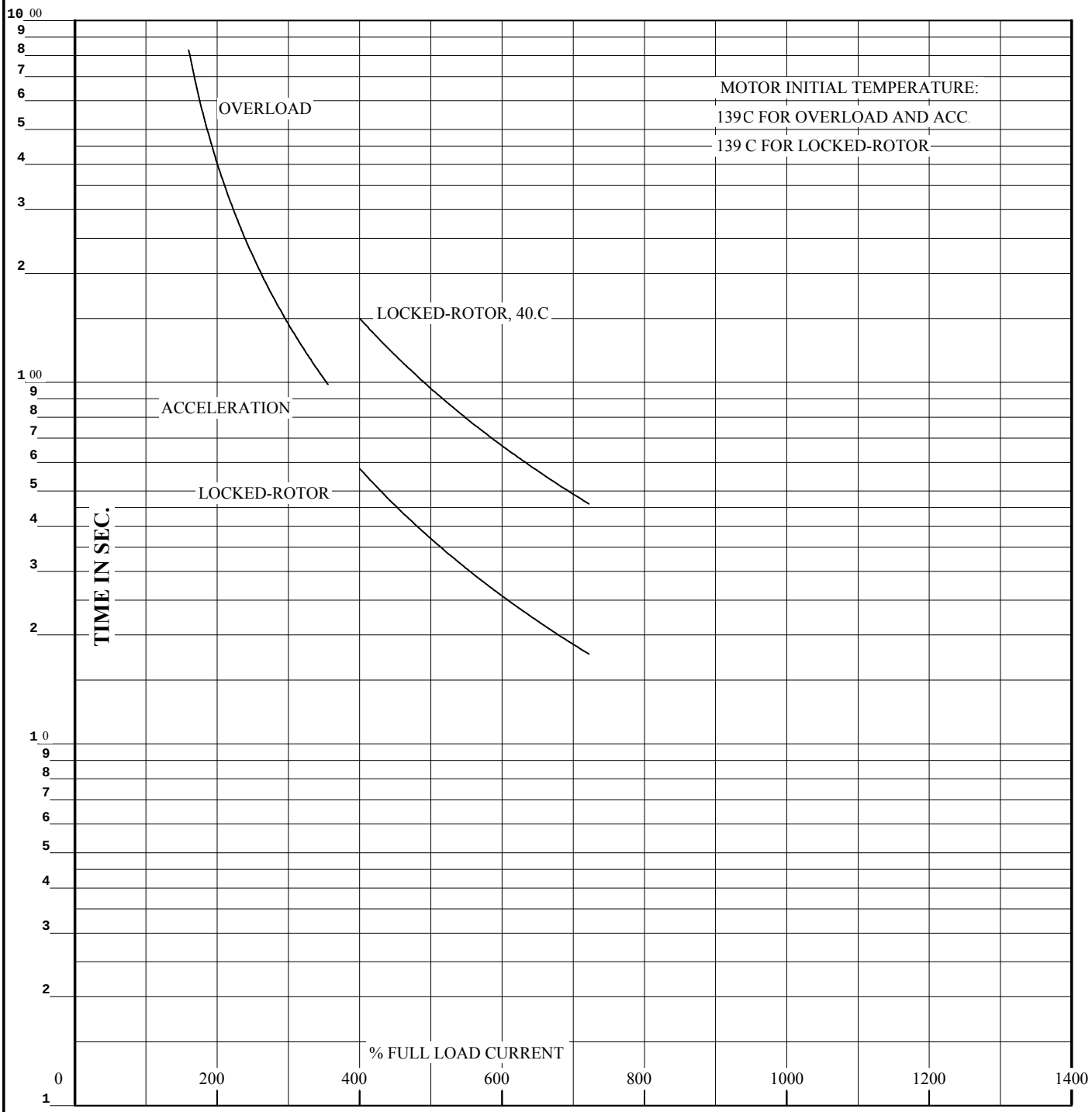
DR. BY	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	C.E.JAMISON
DATE	08/22/17

A-C MOTOR PERFORMANCE CURVES

A44WG5582-R001

ISSUE DATE 06/19/18

REL. S.O.		RPM	1785	S.F.	1.15	ROTOR	418143052ZEQ
FRAME	449T	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	300	AMPS	267	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 ℃	.0153
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	E/S	---		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 96.2%

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

617427-243

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

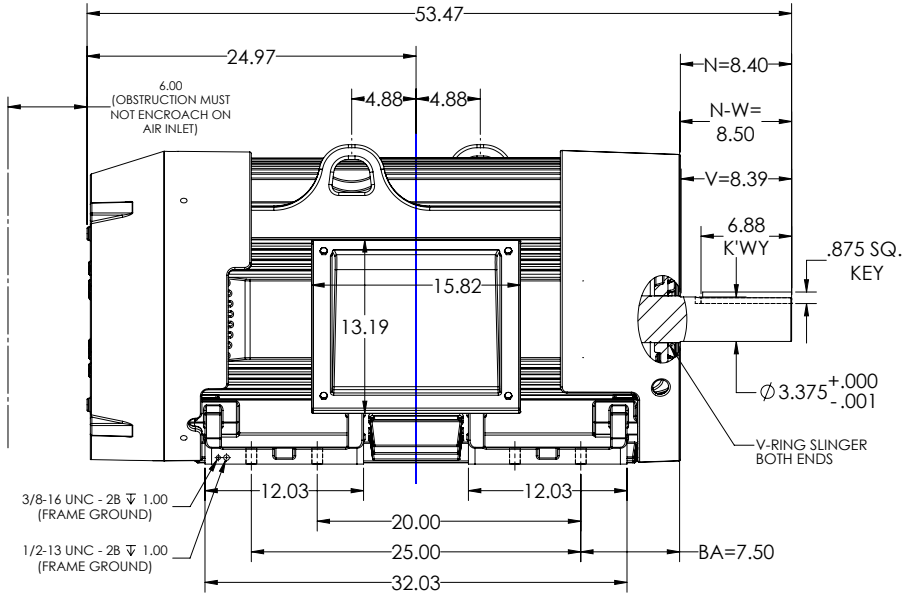
ENCLOSURE: TOTALLY ENCLOSED

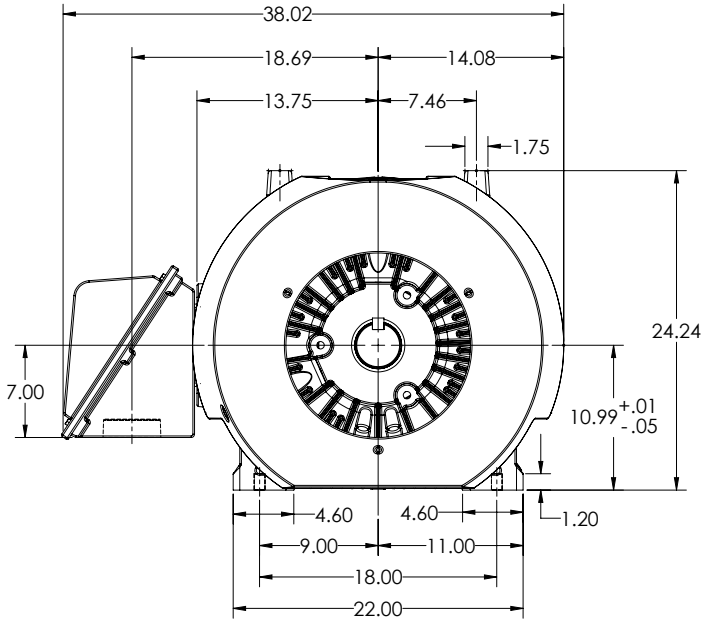
COOLING: FAN COOLED

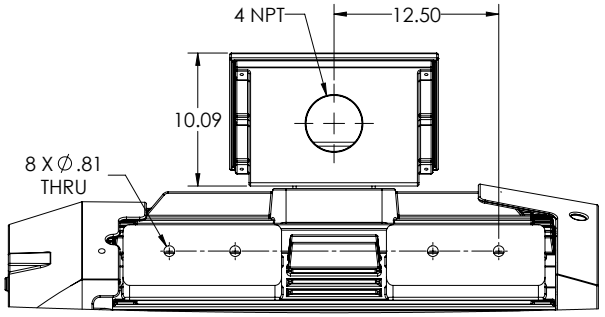
MOUNTING: FOOT, F-1 SIDE

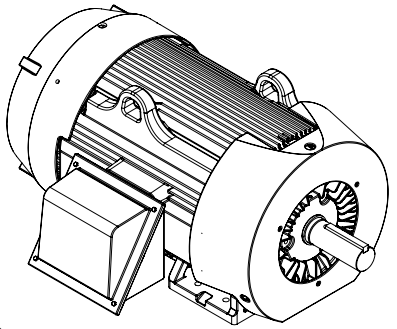
FRAME G449T
INCLUDES G447T FRAME MOUNTING HOLES

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			C

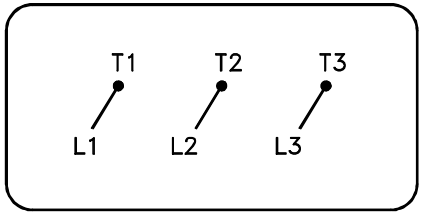
BALDOR

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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1