ABB BALDOR RELIANCE

Customer information packet

ECP4421T-4

125HP, 885RPM, 3PH, 60HZ, 447T, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
9/7/2026 10:48:16 AM

Specifications

Enclosure	TEFC
Frame	447T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	Polyrex EM (-20F +300F)
Constant Torque Speed Range	30-60
Current @ Voltage	149.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	149.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2397
Layout	617427-002
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#1/0
Proprietary	False
Created date	01-09-2014

Motor Type	A44104M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	48.24 IN
Power Factor	83
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	885 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238											
CAT NO	ECP4421T-4		**SPEC NO.**	A44-5310-2397							
HP	125	**AMPS**	149	**VOLTS**	460		**DESIGN**	B			
FRAME	447T	**RPM**	885	**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**	F			
O.D.E. BRG.	90BC03J30X		**POWER FACTOR**	83			**NEMA NOM EFFICIENCY**	95			
3/4 LOAD EFF.	95.4		**MAX CORR KVAR**	30.0			**GUARANTEED EFFICIENCY**	94.1			
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
	447T	125	P	3/60	885	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
401871	418143-86-GE	---	---	.0388

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	46.0	900	4.14	0
1/4	31.3	58.5	897	53.8	93.1
2/4	62.6	83.1	894	74.0	95.2
3/4	93.7	114	890	80.6	95.4
4/4	125	149	886	82.7	95.0
5/4	156	186	882	83.6	94.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	157	1160	870
PULL UP	270	148	1095	824
BREAKDOWN	841	242	1795	472
FULL LOAD	886	100	740	149

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.
GUARANTEED MIN. EFF. 94.5 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY D. M. BYRD
CK. BY J. T. PARKER
APP. BY D. M. BYRD
DATE 07/30/96

A-C MOTOR PERFORMANCE DATA

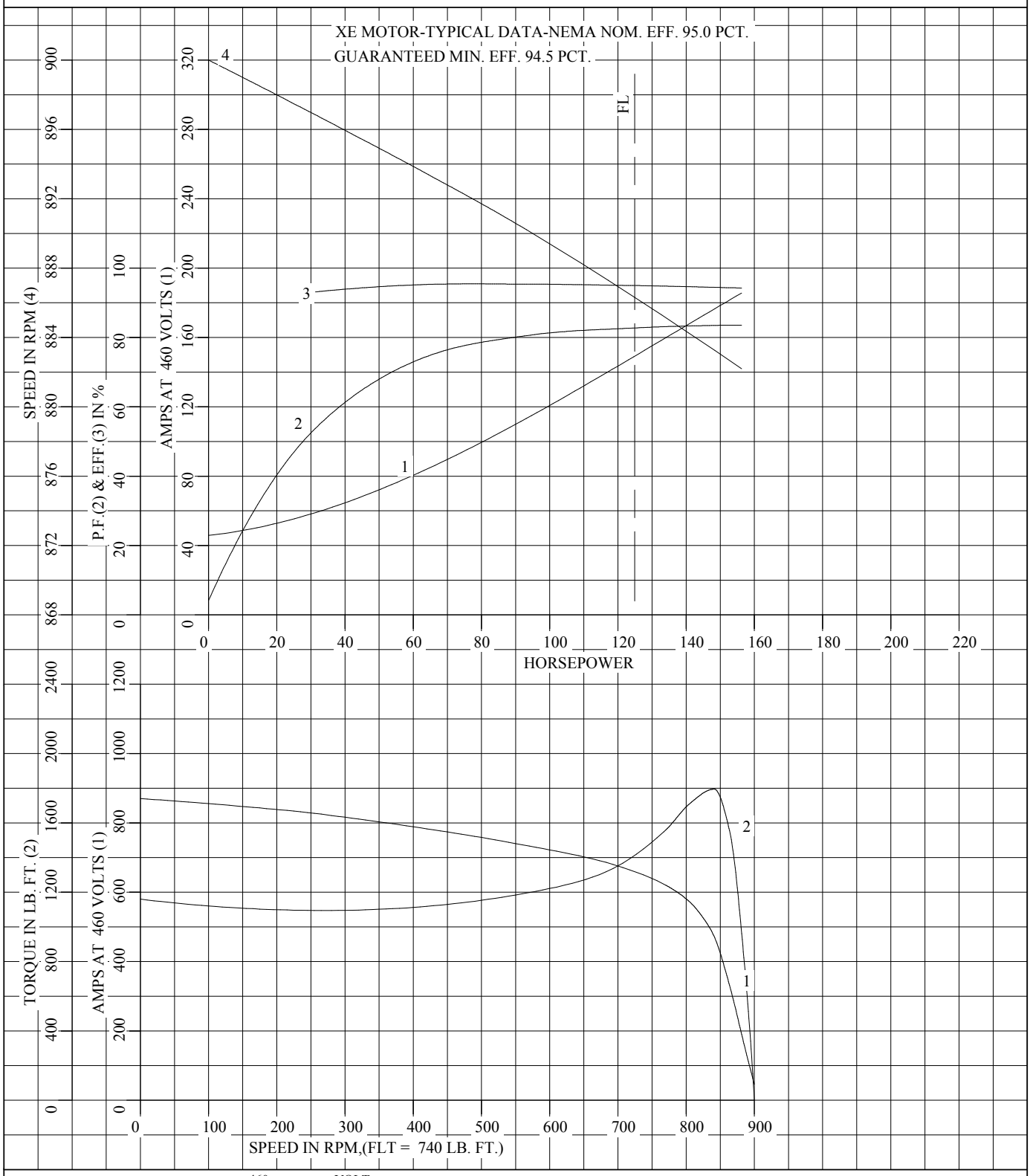
A44WG2397-R001
ISSUE DATE 02/22/12

Printed on 2/22/12 14:19 @ psecs-motorer

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET ECP4421T-4 - 125HP, 885RPM, 3PH, 60HZ, 447T, TEFC, F1

FRAME 447T	RPM 885	S.F. 1.15	ROTOR 418143-86-GE
HP 125	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 149	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC-XEX	STATOR RES.@ 25 ℃ .0388
	AMB ℃/INSUL 40/B	E/S 401871	OHMS (BETWEEN LINES)



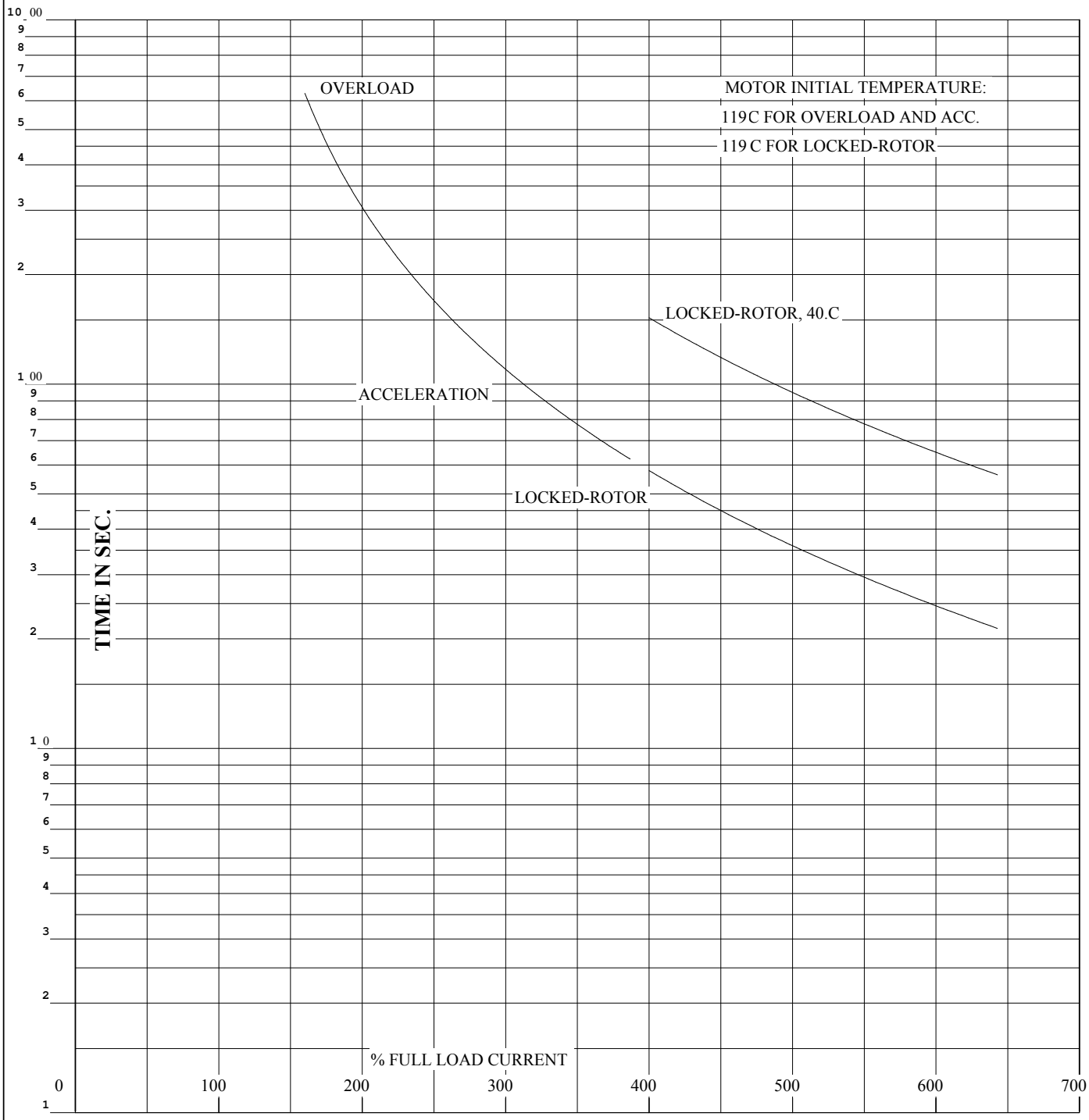
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	D. M. BYRD
CK. BY	J. T. PARKER
APP. BY	D. M. BYRD
DATE	07/30/96

A-C MOTOR PERFORMANCE CURVES A44WG2397-R001 ISSUE DATE 02/22/12

REL. S.O.	RPM 885	S.F. 1.15	ROTOR 418143-86-GE
FRAME 447T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 149	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC-XEX	STATOR RES.@ 25 °C.0388
PHASE/HERTZ 3/60	AMB °C/INSUL 40/B	E/S 401871	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.

GUARANTEED MIN. EFF. 94.5 PCT.

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	D. M. BYRD
CK. BY	J. T. PARKER
APP. BY	D. M. BYRD
DATE	07/30/96

A-C MOTOR PERFORMANCE CURVES A44WG2397-R001 ISSUE DATE 02/22/12

617427-002

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

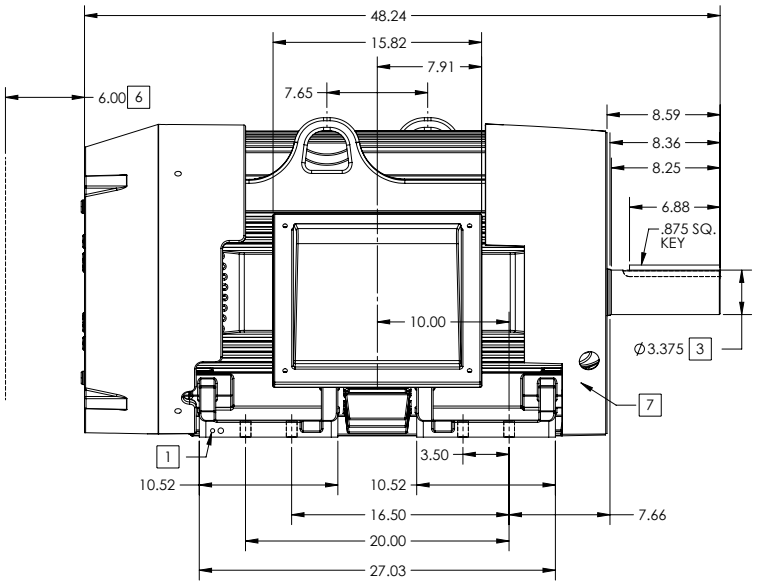
ENCLOSURE: TOTALLY ENCLOSED

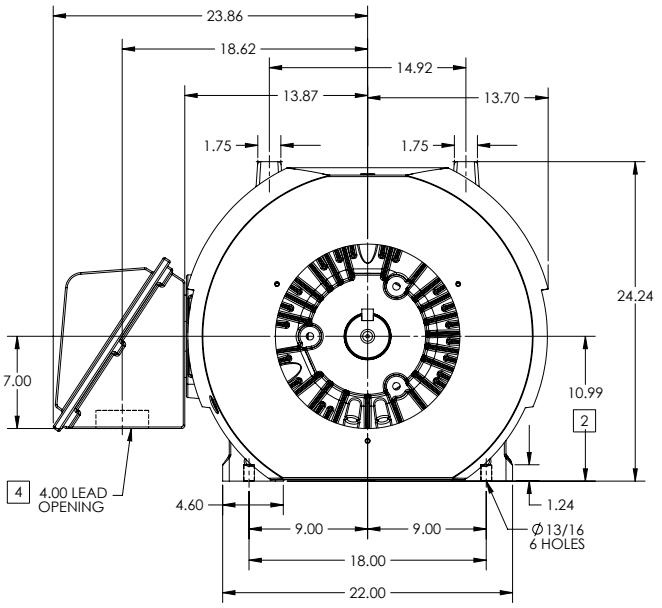
FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.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 NO ENCROACH ON AIR INLET.
7. AIR DEFLECTOR INSTALLED WHEN REQUIRED.

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 .003" T.I.R. TO 5 INCH DIA.

5 WEIGHT (LBS): 2515

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

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

SHEET NUMBER 1 OF 2

617427-002

REV. DESC: CHANGING ENCLOSURE TO "TOTALLY ENCLOSED"WAS"UL..."			
REV: A	VERSION: 01	REVISED: 08:25:13 02/15/2013	TDR: 000000786306
MODEL NO. 617427-002			REF:
BY: MGHWCG	Material:	C	

BALDOR

G447T/445T STD – FOOTED – SIDE/CENTER C/B

617427-002

617427-002

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

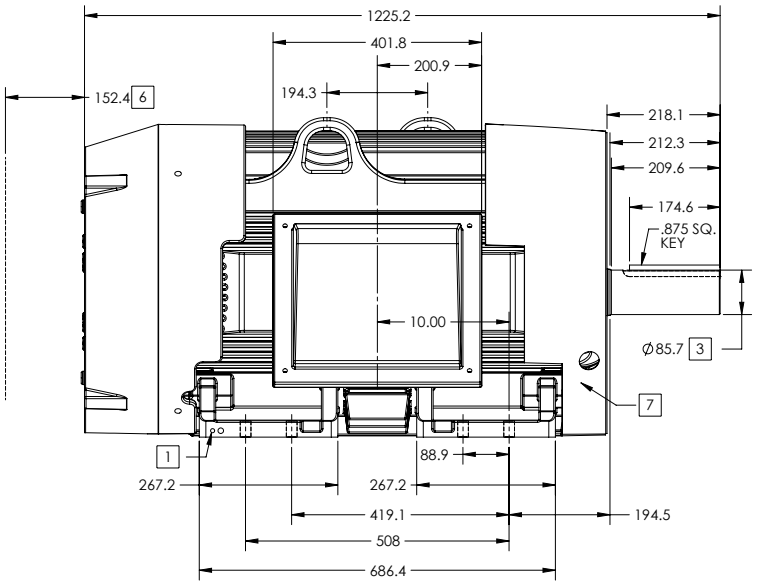
ENCLOSURE: TOTALLY ENCLOSED

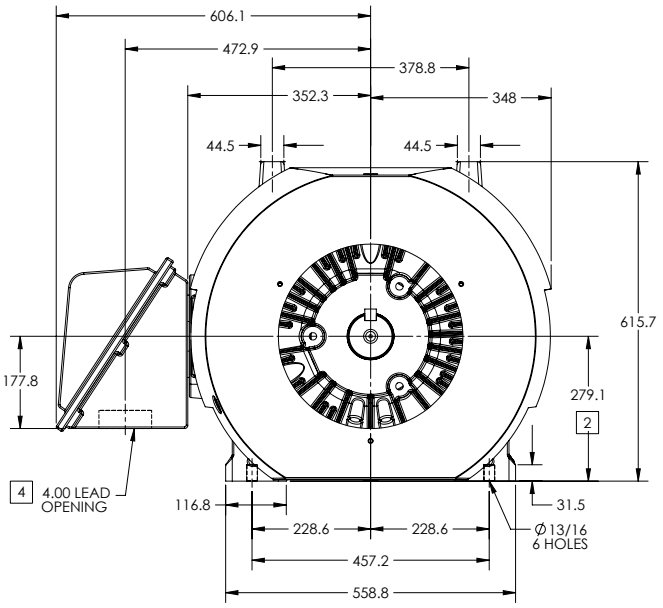
FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.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 NO ENCROACH ON AIR INLET.
7. AIR DEFLECTOR INSTALLED WHEN REQUIRED.

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 .08 MM T.I.R. TO 127 MM DIA.

5 WEIGHT (KGS): 1140

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

REV. DESC: CHANGING ENCLOSURE TO "TOTALLY ENCLOSED"WAS"UL..."			
REV: A	VERSION: 01	REVISED: 08:25:13 02/15/2013	TDR: 000000786306
MODEL NO. 617427-002			REF:
BY: MGHWCG	Material:		C

BALDOR

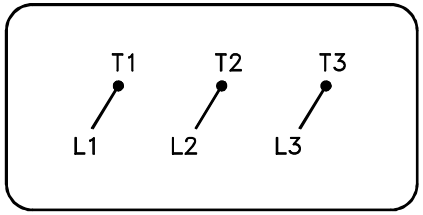
G447T/445T STD – FOOTED – SIDE/CENTER C/B

617427-002

617427-002

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