ABB BALDOR RELIANCE

Customer information packet

ECP4407T-5

200HP, 1785RPM, 3PH, 60HZ, 447T, A44120M, TEFC
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.
11/17/2026 5:34:43 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	200.000 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	178.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	178.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0891
Layout	617427-002
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 (02 per group) Y
Proprietary	False
Created date	08-15-2012

Motor Standards	NEMA
Motor Type	A44120M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.24 IN
Power Factor	88
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

NP3238												
CAT NO	ECP4407T-5		**SPEC NO.**	P44G3933								
HP	200	**AMPS**	178		**VOLTS**	575		**DESIGN**	B			
FRAME	447T	**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.	96.5		**MAX CORR KVAR**		32.0		**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
	447TZ	200	P	3/60	1785	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
---	418143052CE	---	---	.0265

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	49.6	1800	4.07	0
1/4	50.0	70.7	1796	56.3	94.3
2/4	100	101	1793	77.4	96.2
3/4	150	137	1789	84.8	96.4
4/4	200	178	1785	87.6	96.2
5/4	250	221	1781	88.4	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	147	865	1143
PULL UP	540	123	726	1065
BREAKDOWN	1730	268	1579	616
FULL LOAD	1785	100	588	178

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-CALCULATED DATA-NEMA NOM. EFF. 96.2 PCT.

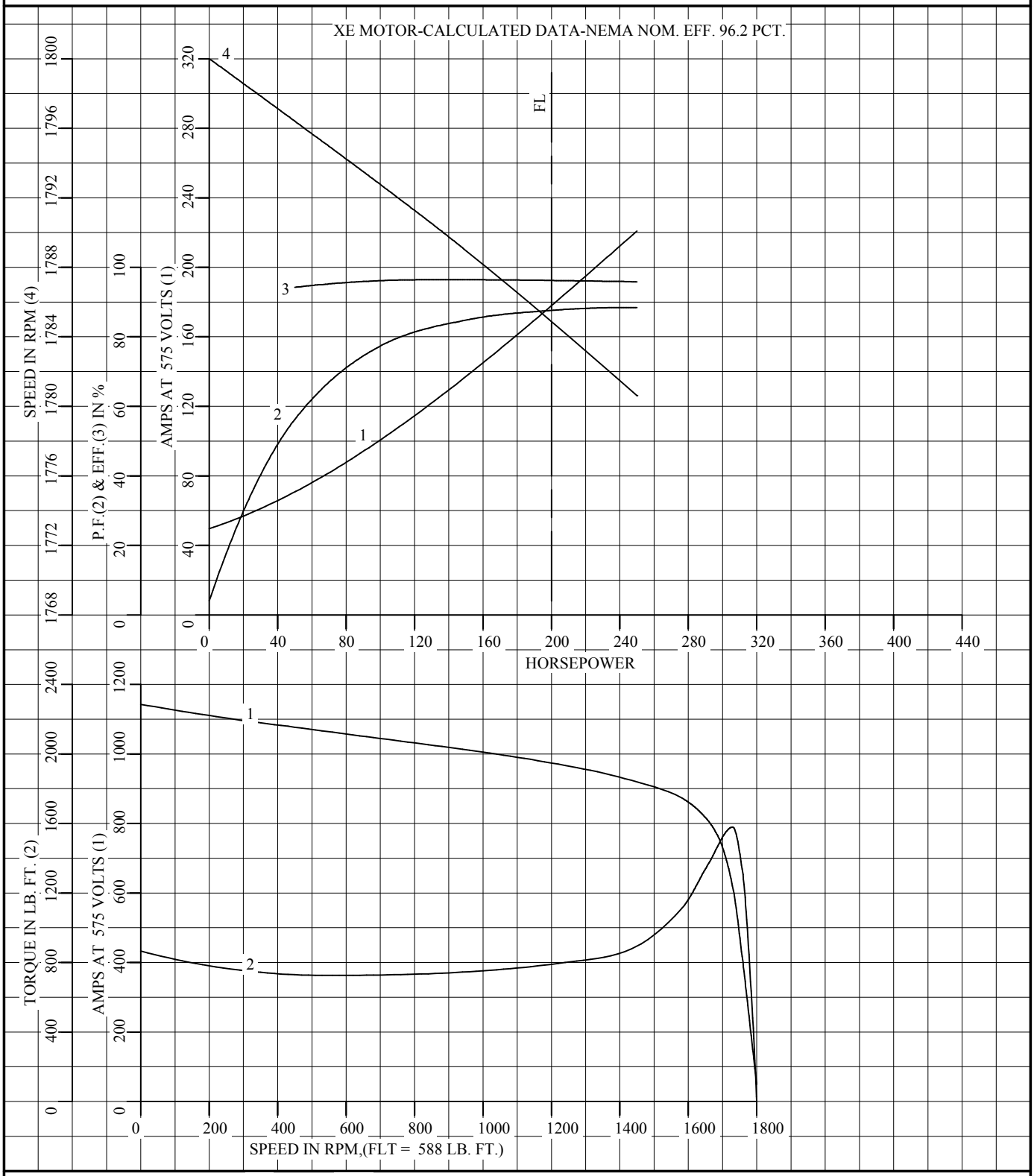
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C.E. JAMISON
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 06/12/18

A-C MOTOR PERFORMANCE DATA

A44WG0891-R001
ISSUE DATE 10/23/20

REL S.O.	RPM 1785	S.F. 1.15	ROTOR 418143052CE
FRAME 447TZ	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 200	AMPS 178	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0265
PHASE/HERTZ 3/60	AMB °C/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

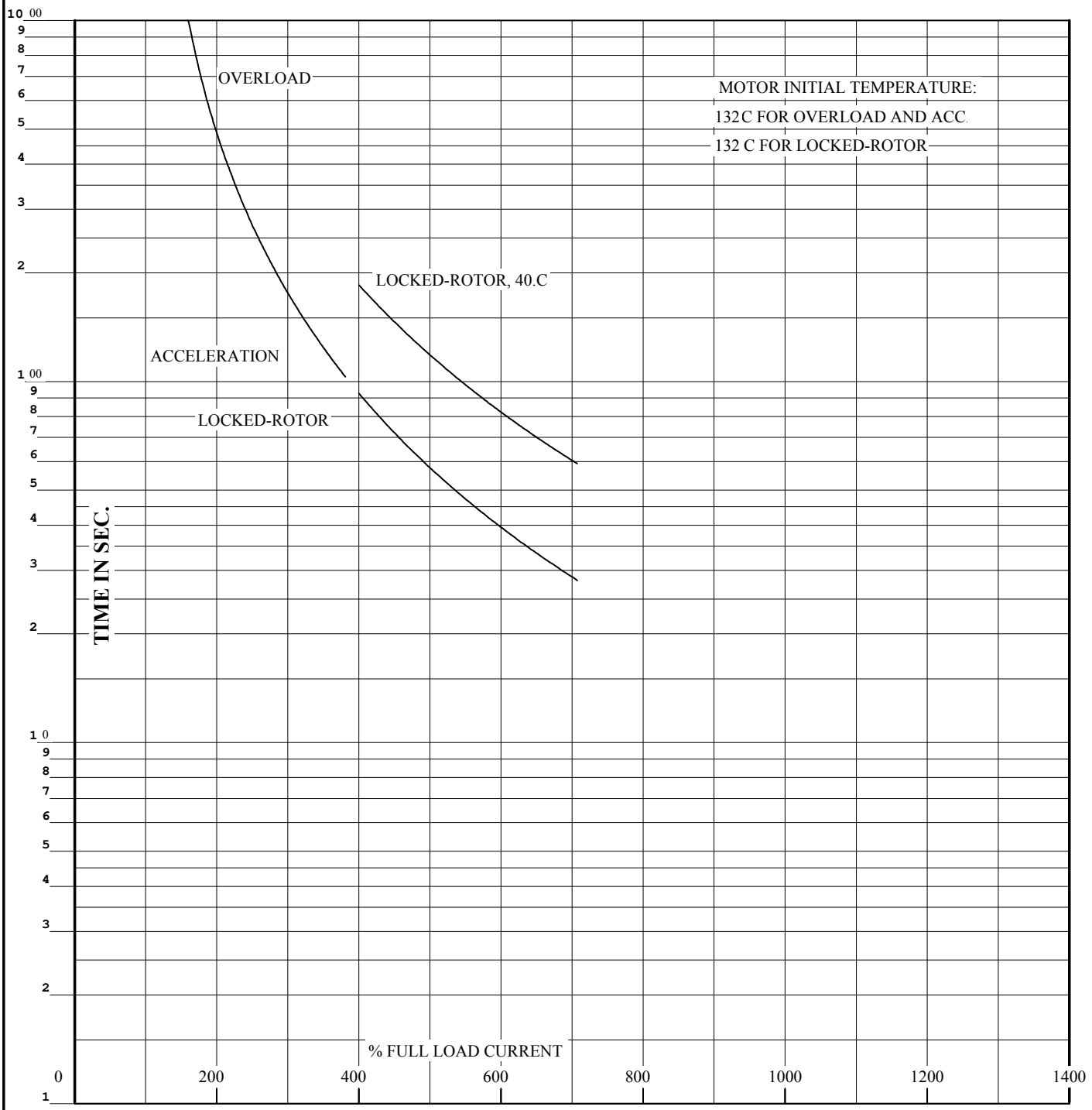
DR. BY	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	W.L. SMITH
DATE	06/12/18

A-C MOTOR PERFORMANCE CURVES

A44WG0891-R001

ISSUE DATE 10/23/20

REL. S.O.		RPM	1785	S.F.	1.15	ROTOR	418143052CE
FRAME	447TZ	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	200	AMPS	178	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C.	.0265
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	---		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 96.2 PCT.

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	W.L. SMITH
DATE	06/12/18

A-C MOTOR PERFORMANCE CURVES

A44WG0891-R001

ISSUE DATE 10/23/20

617427-002

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

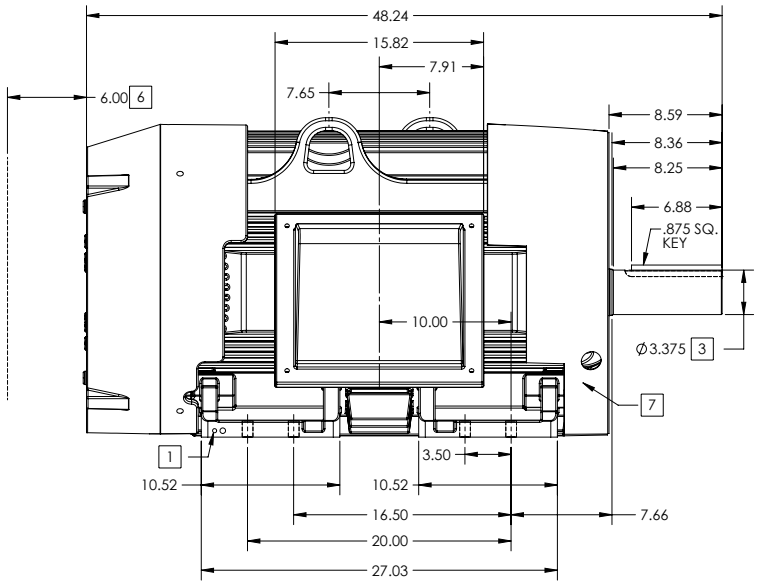
ENCLOSURE: TOTALLY ENCLOSED

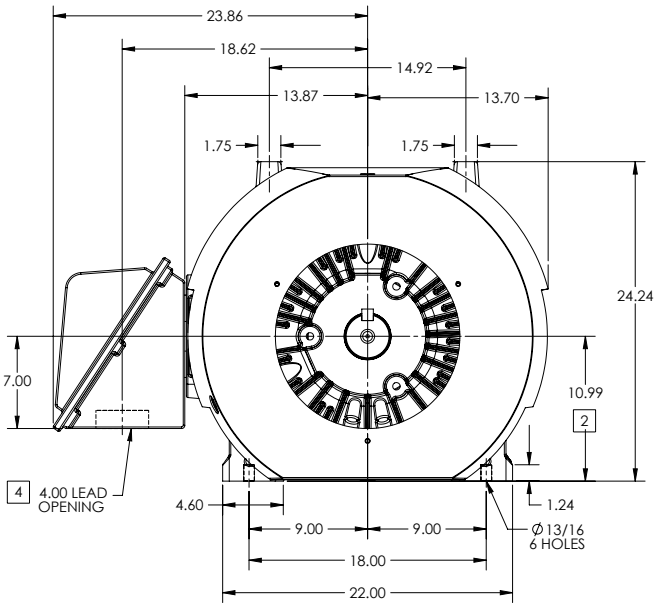
FRAME G447T ABOVE NEMA RATINGS

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

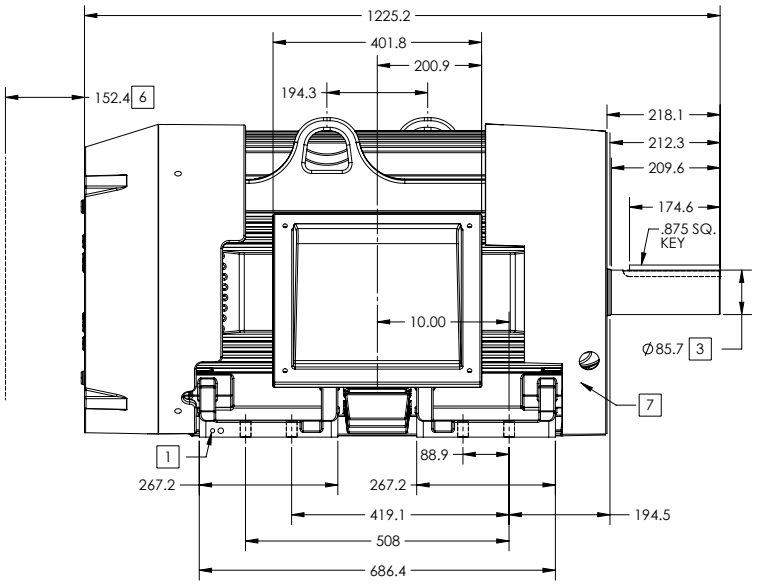
ENCLOSURE: TOTALLY ENCLOSED

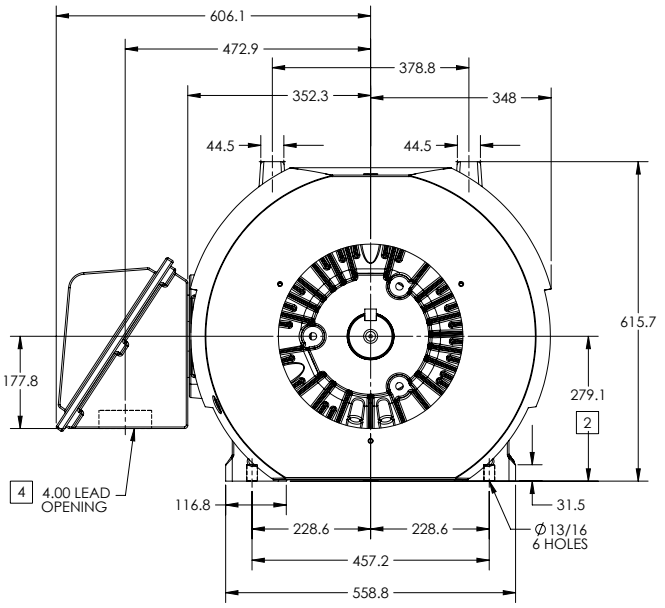
FRAME G447T ABOVE NEMA RATINGS

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

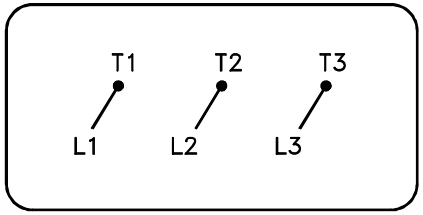
G447T/445T STD – FOOTED – SIDE/CENTER C/B

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