ABB BALDOR RELIANCE

Customer information packet

ECP4407TS-4

200HP, 1785RPM, 3PH, 60HZ, 447TS, A44120M, TEF
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	447TS
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	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	222.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	222.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0690
Layout	617435-836
Eff. date	11-04-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	08-15-2012

Motor Type	A44120M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.48 IN
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 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	ECP4407TS-4	**SPEC NO.**	P44G3935									
HP	200	**AMPS**	222	**VOLTS**	460	**DESIGN**	B					
FRAME	447TS	**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**	87	**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**										

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447TD	200	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	418143052CE	---	---	.0169

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	62.0	1800	4.07	0
1/4	50.0	88.3	1796	56.3	94.3
2/4	100	126	1793	77.4	96.2
3/4	150	172	1789	84.8	96.4
4/4	200	222	1785	87.6	96.2
5/4	250	276	1781	88.4	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	148	871	1428
PULL UP	540	123	726	1332
BREAKDOWN	1730	268	1579	770
FULL LOAD	1785	100	588	222

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

TYPICAL DATA
XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 96.2 PCT.

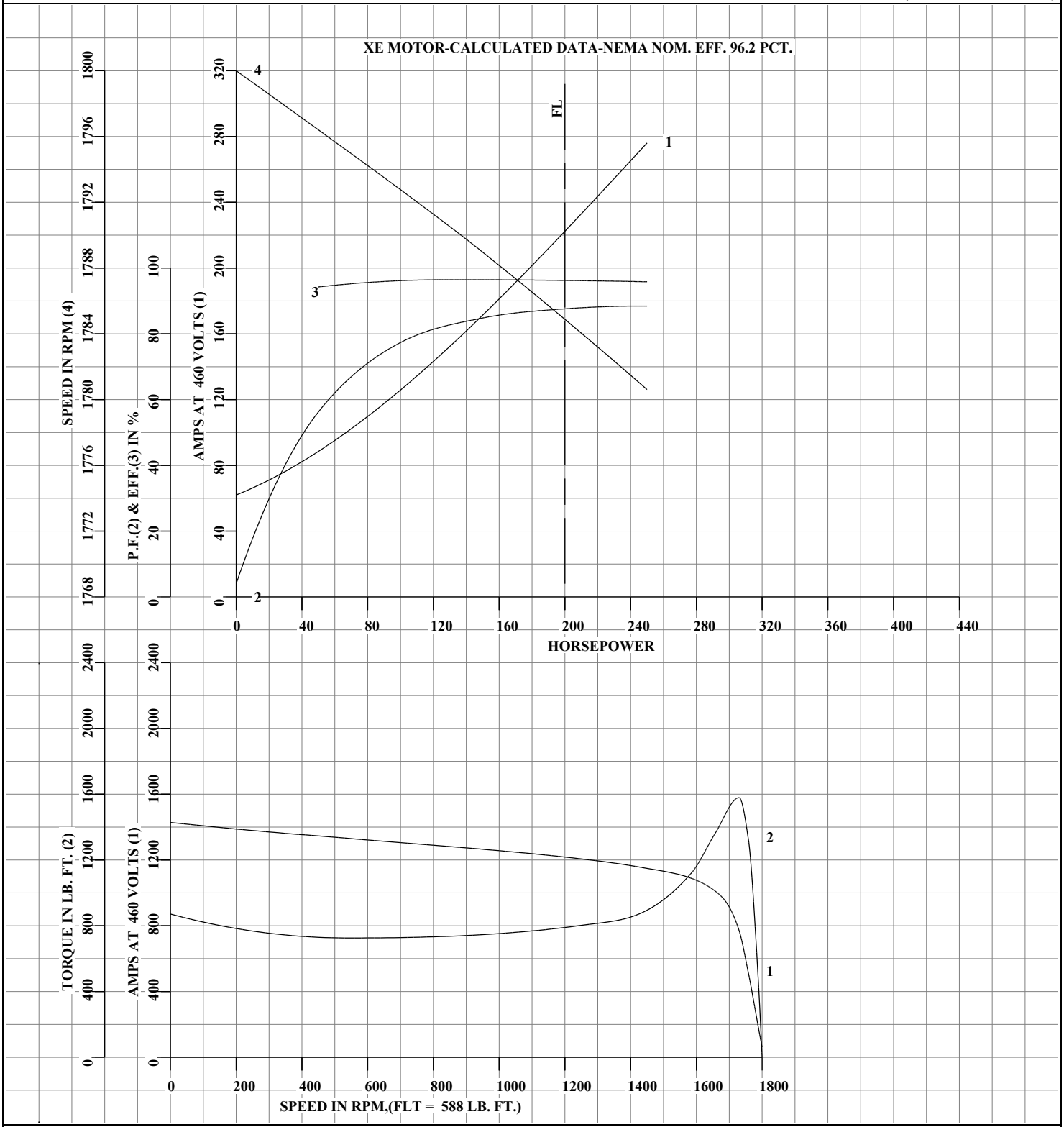
ABB	DRAWN BY: T.G.KELATI CHECKED BY: E.J.CHRISTIAN APPROVED BY: E.J.CHRISTIAN DATE: 07/06/17	AC MOTOR PERFORMANCE DATA	A44WG0690-R001 DATE ISSUED 05/03/21

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 447TD	**VOLTS** 460	**NEMA DESIGN** B	**TEST S.O.** TYPICAL DATA
HP 200	**AMPS** 222	**CODE LETTER** G	**TEST DATE** ---
TYPE P	**DUTY** CONT	**ENCLOSURE** TEFC	**STATOR RES. @ 25°C** .0169
PHASE / HERTZ 3/60	**AMB °C / INSUL** 40/F	**E/S** ---	**OHMS (BETWEEN LINES)**

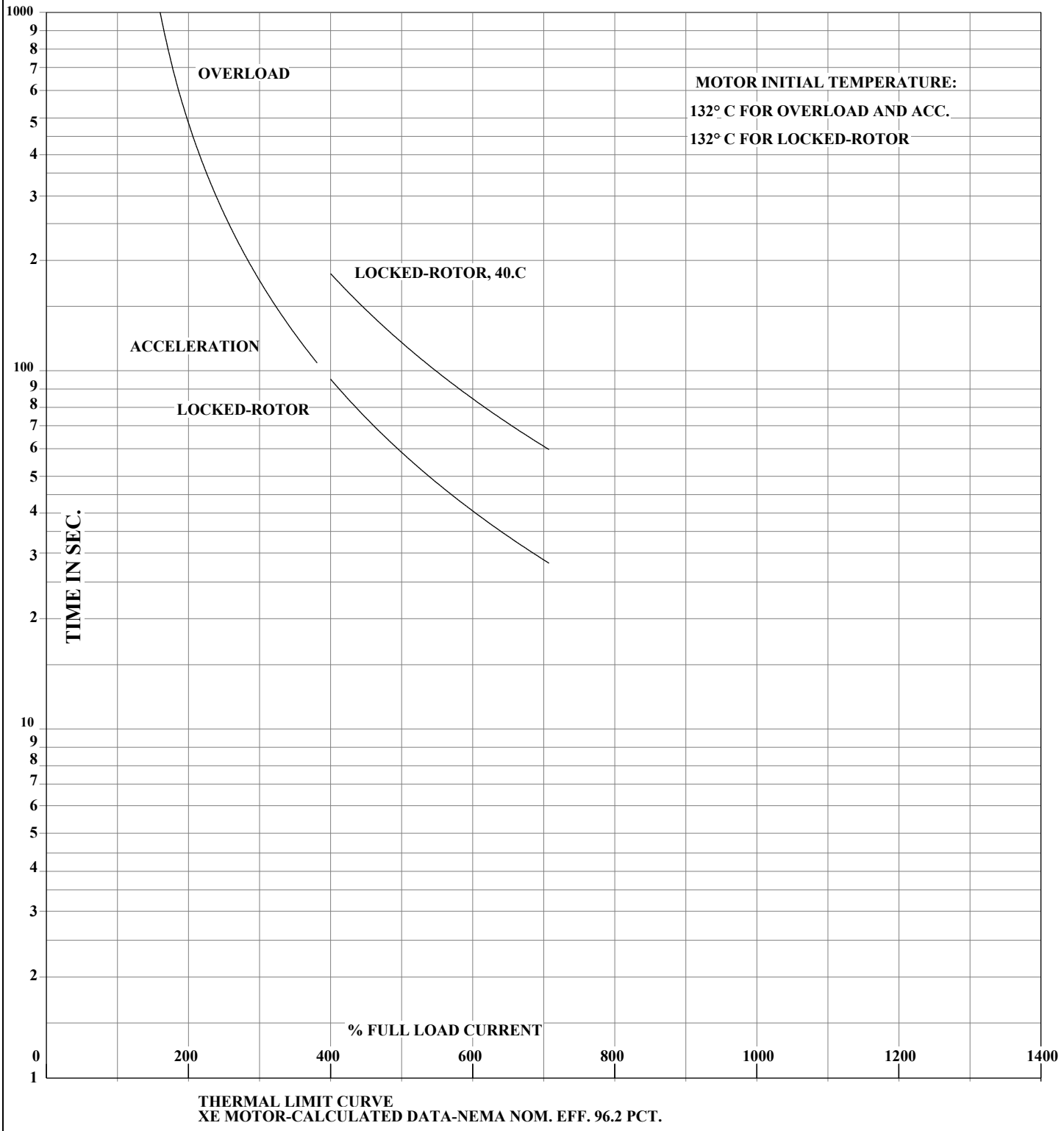
RPM 1785 **S.F.** 1.15 **ROTOR** 418143052CE



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

ABB	DRAWN BY: T.G.KELATI CHECKED BY: E.J.CHRISTIAN APPROVED BY: E.J.CHRISTIAN DATE: 07/06/17	AC MOTOR PERFORMANCE DATA	**A44WG0690-R001** ISSUE DATE 05/03/21

FRAME 447TD	RPM 1785	S.F. 1.15	ROTOR 418143052CE
HP 200	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 222	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0169
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 96.2 PCT.

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

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617435-836

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

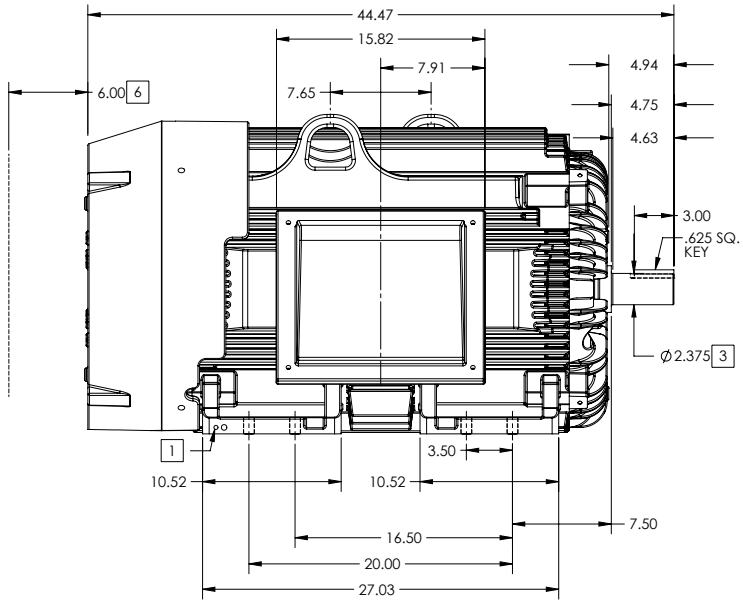
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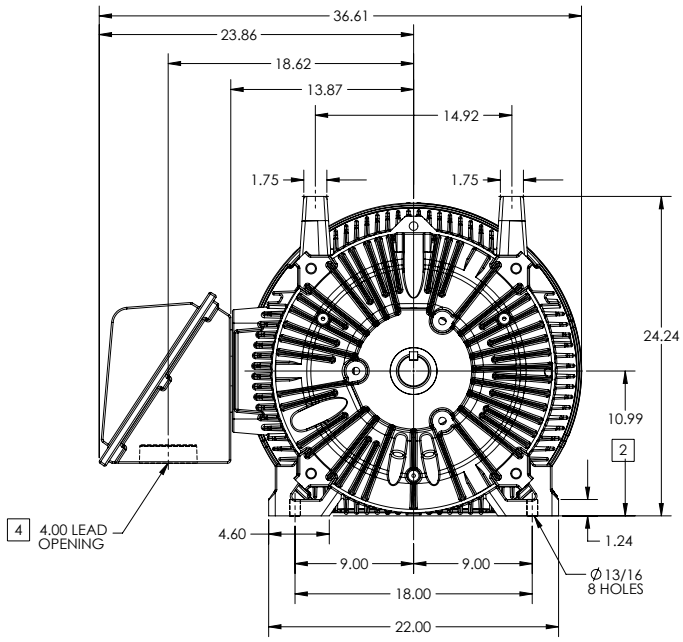
FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS 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

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): 2480

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

617435-836

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 03:28:59 11/01/2017	TDR: 000001049412
MODEL NO. 617435-836			REF:
BY: RAGEC	Material:		C

BALDOR

G447TS/445TS STD – FOOTED – S/C CI C/B

617435-836

617435-836

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

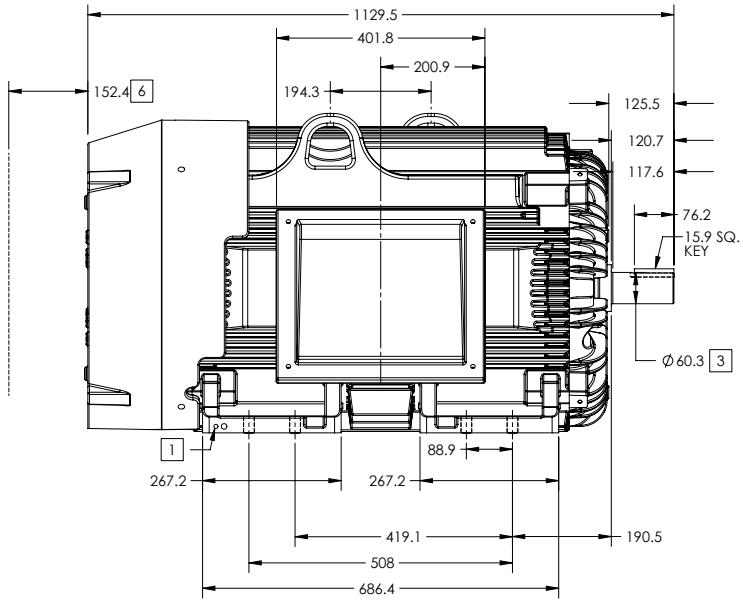
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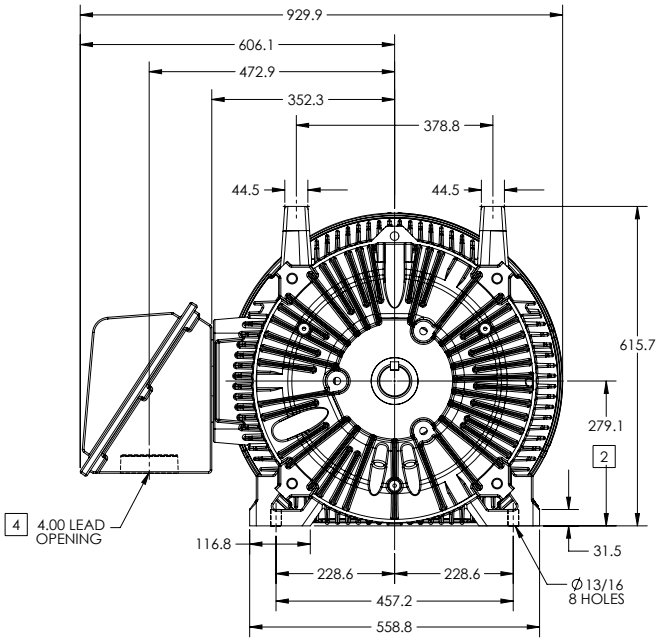
FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.0,-1.5
3. VARIES +.00,-.03
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

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): 1125

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.

SHEET NUMBER 2 OF 2

617435-836

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 03:28:59 11/01/2017	TDR: 000001049412
MODEL NO. 617435-836			REF:
BY: RAGEC	Material:		C

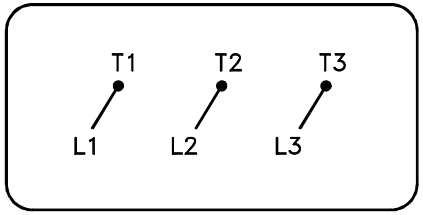
BALDOR

G447TS/445TS STD – FOOTED – S/C CI C/B

617435-836

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