ABB BALDOR RELIANCE

Customer information packet

ECP84407T-4

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

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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	460.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
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 %
Enclosure Modification	841
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
IP Rating	IP56
KVA Code	G

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0690
Layout	617434-662
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	12-11-2018

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	None
Motor Type	A44120M
Mounting Arrangement	F1
No Load Current	60.4 a
Number of Poles	4
Overall Length	48.47 IN
Power Factor	87
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	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566												
CAT NO	ECP84407T-4	**SPEC NO.**	A44-5046-0690									
HP	200	**AMPS**	222	**VOLTS**	460	**DESIGN**	B					
FRAME SIZE	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**	**ENCL**	TEFC	**CODE**	G						
O.D.E. BRG.	90BC03J30X	**POWER FACTOR**	87	**NEMA-NOM-EFFICIENCY**	96.2							
3/4 LOAD EFF.	96.5	**IP**	56	**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**										

000613007EX					
CAT NO	ECP84407T-4	**SPEC NO.**	A44-5046-0690		
NO. ROTOR BARS	58	**GREASE TYPE**	POLYREX EM		
NO. SLOTS	72	**NL AMPS AT RATED VOLTAGE**		60.4	
5 YEAR WARRANTY		**WINDING RES @25 C**	.0209	**OHMS**	
MFG. DATE		**SER.NO**			

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

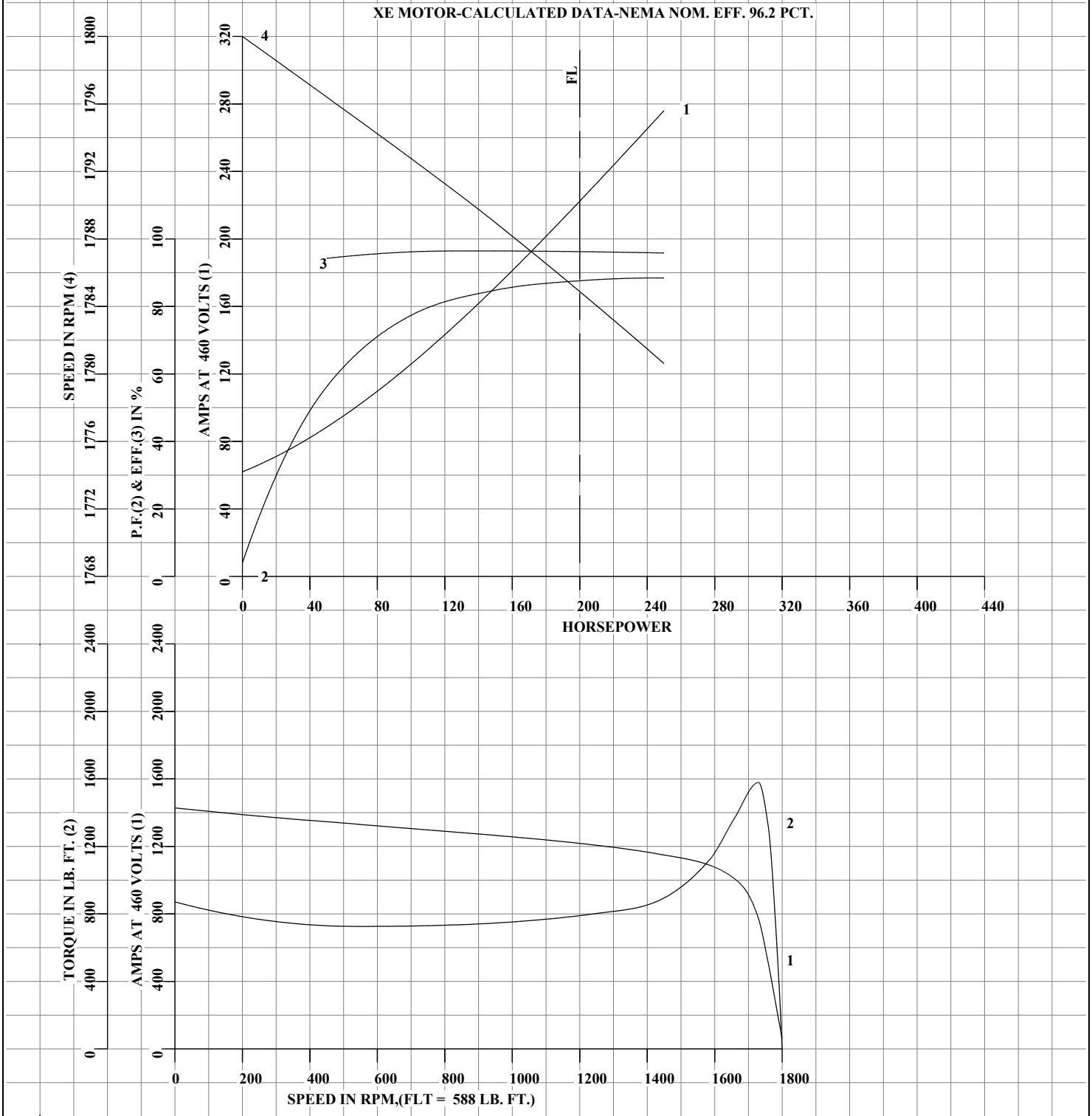
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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

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)

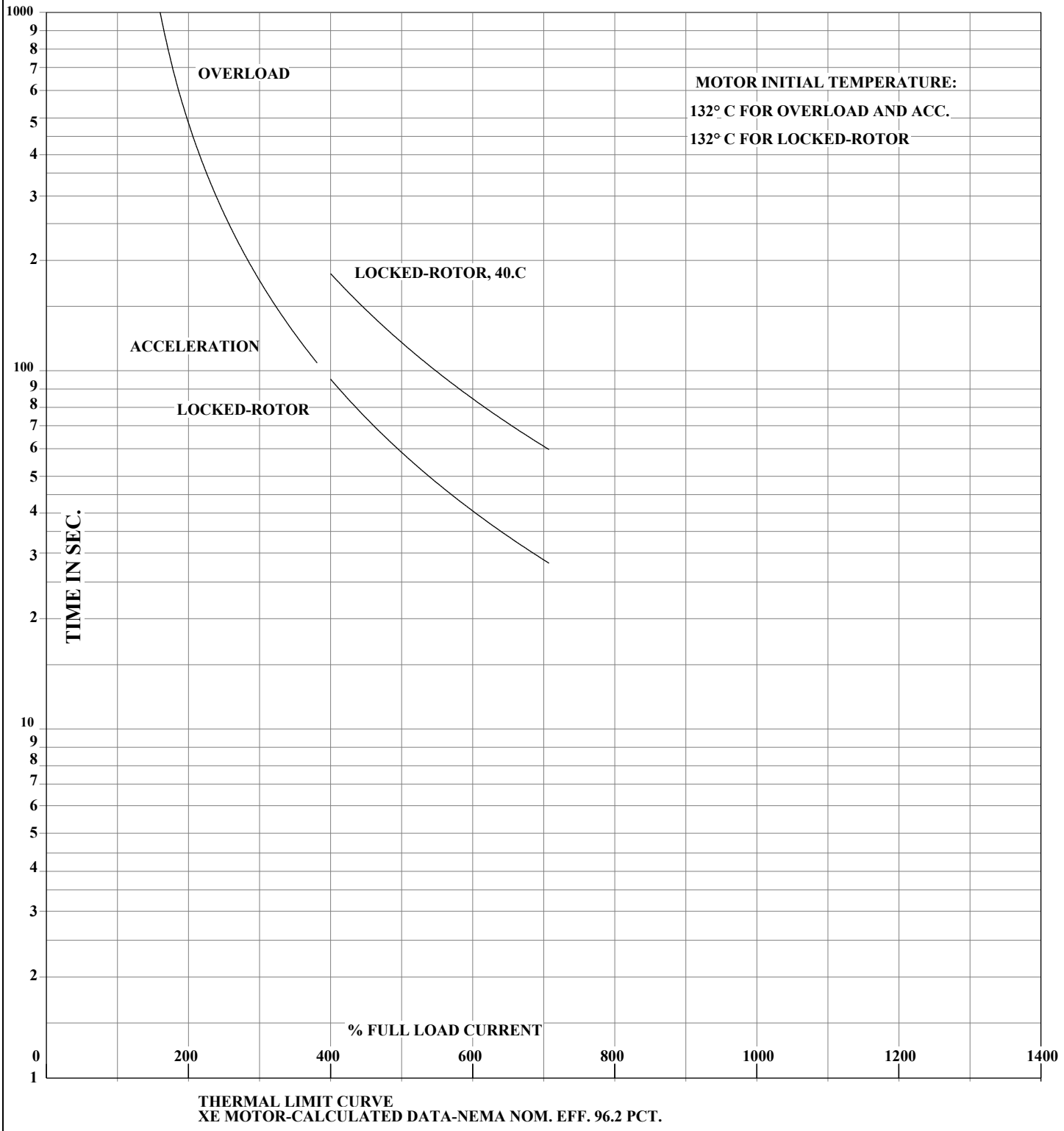
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PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0169
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



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

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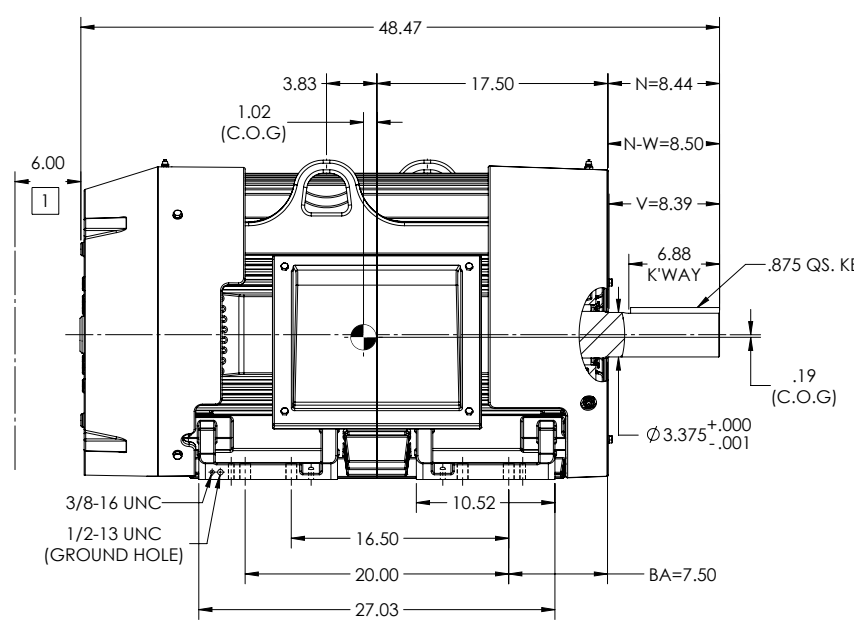
SHEET NUMBER 1 OF 2

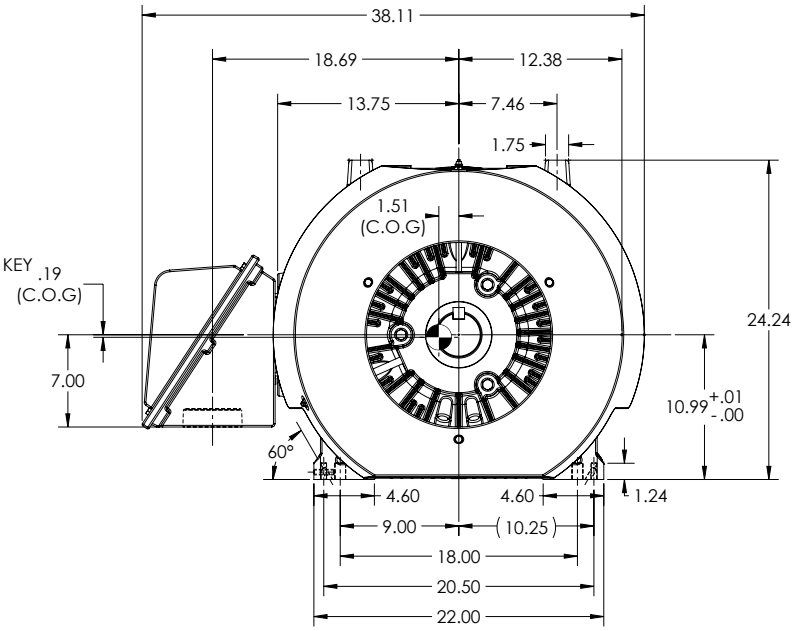
DUTY MASTER ALTERNATING CURRENT MOTORS

617434-662

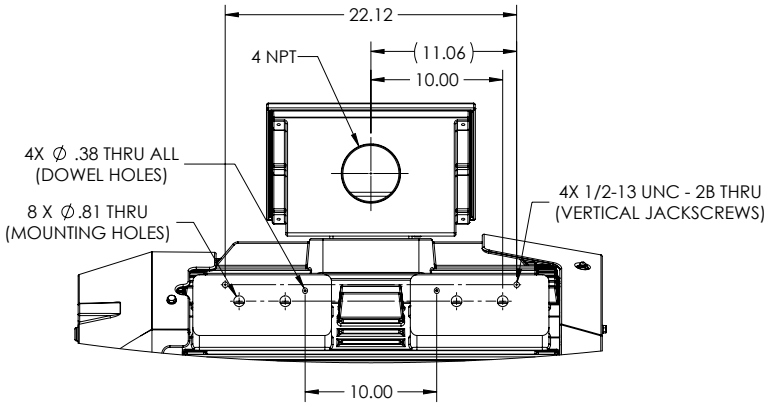
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

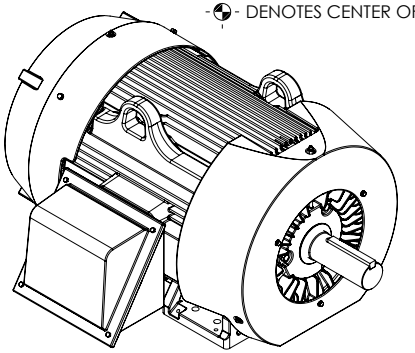
MOUNTING: FOOT, F-1 SIDE | G447T/ G445T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL





◈ - DENOTES CENTER OF GRAVITY WHICH VARIES BY ±1.00 INCH





1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

2 DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT FOR BALL IS .0015 & ROLLER BEARING IS .002 T.I.R.

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2515, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: ADDING COG			
REV: C	VERSION: 03	REVISED: 10:21:55 05/14/2026	TDR: 000001277163
MODEL NO. 617434-662			REF:
BY: USERWAL2	Material:		C

BALDOR

G447/445T TEFC FOOT F1 CI BOX/AIR DEF/841-XL

617434-662

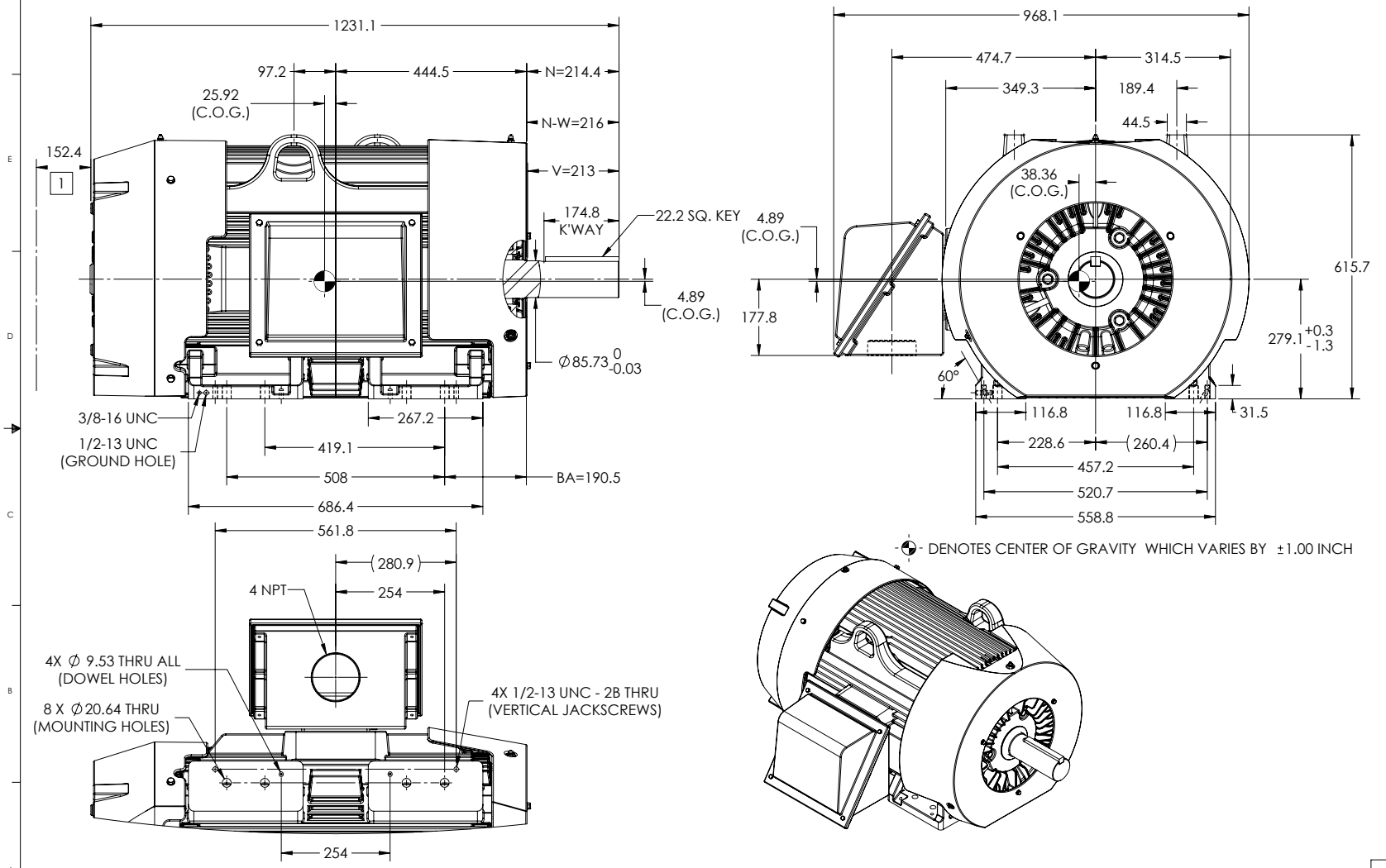
SHEET NUMBER 2 OF 2

DUTY MASTER ALTERNATING CURRENT MOTORS

617434-662

ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 SIDE | G447T/ G445T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL



DENOTES CENTER OF GRAVITY WHICH VARIES BY ±1.00 INCH

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IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT FOR BALL IS .0015 & ROLLER BEARING IS .002 T.I.R.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KGS): 1141, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: ADDING COG			
REV: C	VERSION: 03	REVISED: 10:21:55 05/14/2026	TDR: 000001277163
MODEL NO. 617434-662			REF:
BY: USERWAL2	Material:		C

BALDOR

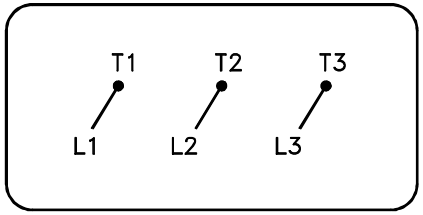
G447/445T TEFC FOOT F1 CI BOX/AIR DEF/841-XL

617434-662

617434-662

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