ABB BALDOR RELIANCE

Customer information packet

EM4409T-4

100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	119.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44064M

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	08-13-2012

Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	82
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	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	P44G3900		**CAT.NO.**	EM4409T-4						**FRAME**	444T	
HP	100	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	1190	**AMPS**	119	**HZ**	60	**AMB**	40	**SF**	1.15			
DRIVE END BEARING	90BC03J30X		**DUTY**	CONT		**INSUL.CLASS**	F					
OPP D.E. BEARING	90BC03J30X		**ENCL**	TEFC	**CODE**	G						
SER.NO.			**POWER FACTOR**	82				**NEMA-NOM-EFFICIENCY**	95			
						MAX CORR KVAR	27.0	**GUARANTEED EFFICIENCY**	94.1			
						NEMA NOM/CSA QUOTED EFF						
								MOTOR WEIGHT				

Accessories

Part number	Description	Multiplier
089490106A	G28 C-FACE BRKT MACH-6318 089490105WCA	P1
089490110A	D-FLANGE BRKT, G28 089490109WCA	P1

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1190	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
497780	418143098VE	---	---	.0547

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	39.9	1200	4.01	0
1/4	25.0	55.8	1197	45.5	92.5
2/4	50.0	72.5	1194	68.0	95.0
3/4	75.0	94.3	1191	78.0	95.3
4/4	100	119	1188	82.5	95.0
5/4	125	147	1184	84.3	94.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	142	627	730
PULL UP	168	126	558	717
BREAKDOWN	1146	266	1175	438
FULL LOAD	1188	100	442	119

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

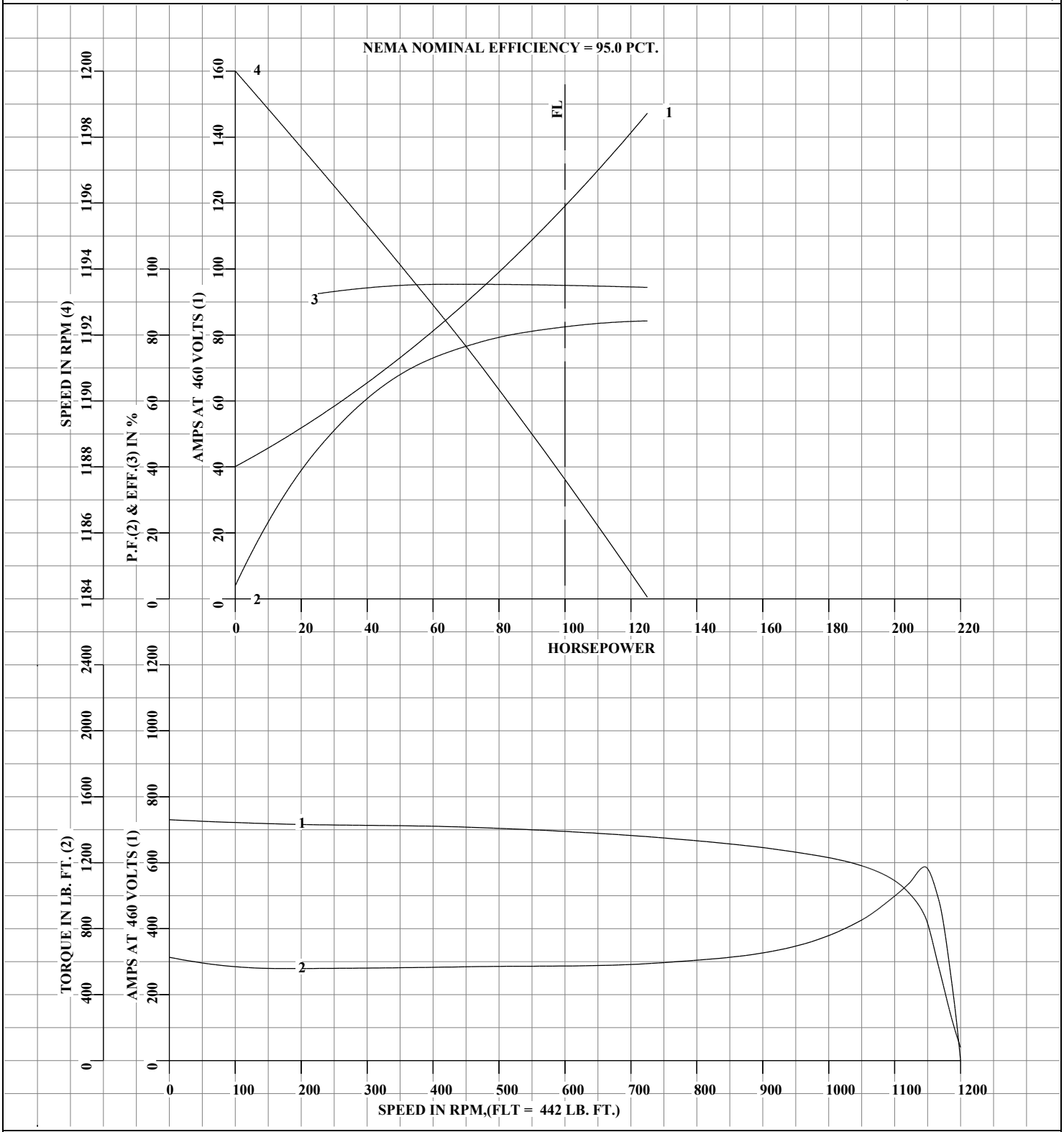
TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 12/06/10	AC MOTOR PERFORMANCE DATA	A44WG3905-R001 DATE ISSUED 08/09/19

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

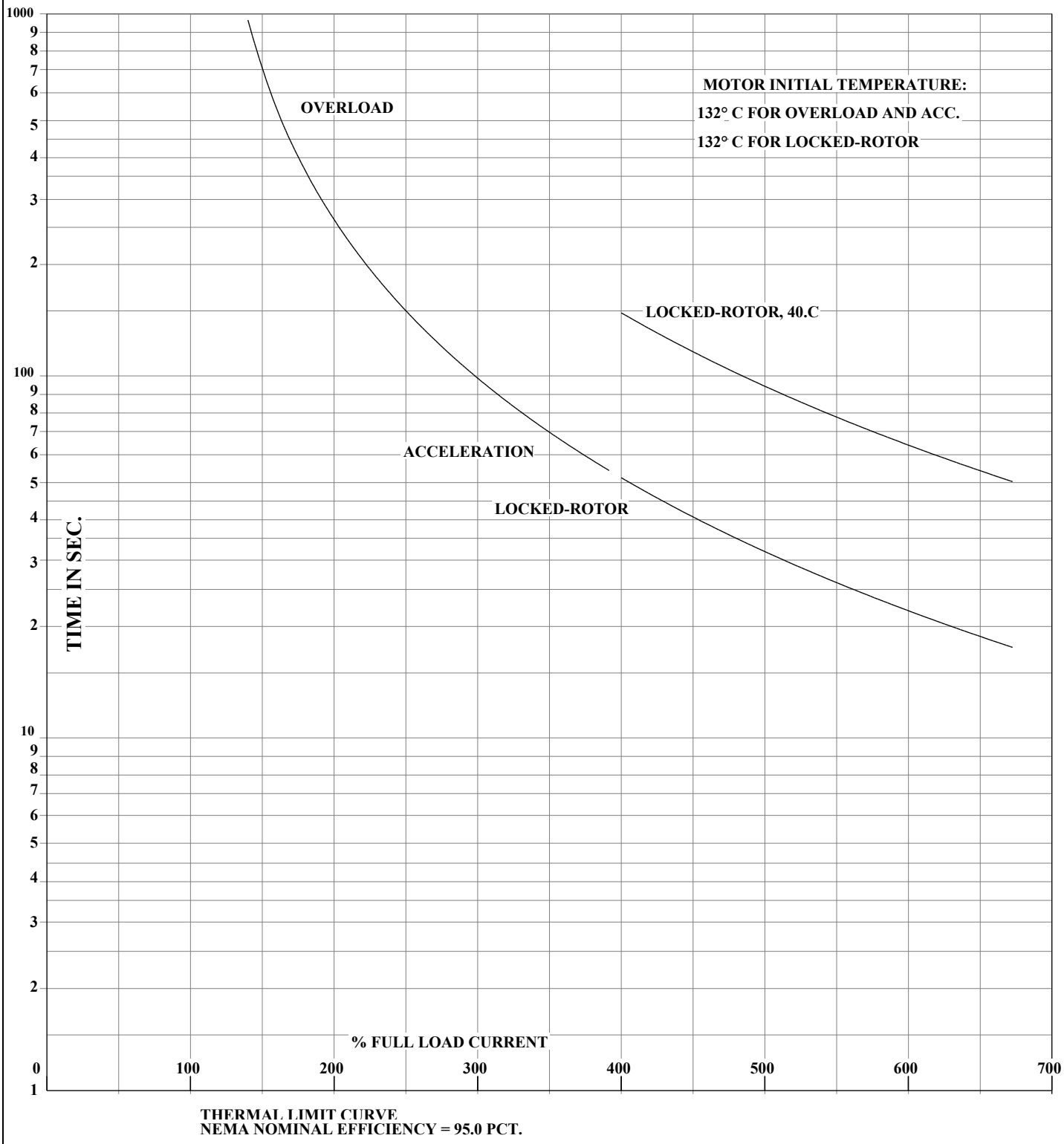
FRAME 444T	**RPM** 1190	**S.F.** 1.15	**ROTOR** 418143098VE
HP 100	**VOLTS** 460	**NEMA DESIGN** B	**TEST S.O.** TYPICAL DATA
TYPE P	**AMPS** 119	**CODE LETTER** G	**TEST DATE** ---
PHASE / HERTZ 3/60	**DUTY** CONT	**ENCLOSURE** TEFC	**STATOR RES. @ 25°C** .0547
	AMB °C / INSUL 40/F	**E/S** 497780	**OHMS (BETWEEN LINES)**



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

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 12/06/10	AC MOTOR PERFORMANCE DATA	A44WG3905-R001 ISSUE DATE 08/09/19

FRAME 444T	RPM 1190	S.F. 1.15	ROTOR 418143098VE
HP 100	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 119	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0547
	AMB °C / INSUL 40/F	E/S 497780	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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DUTY MASTER ALTERNATING CURRENT MOTORS

617435-164

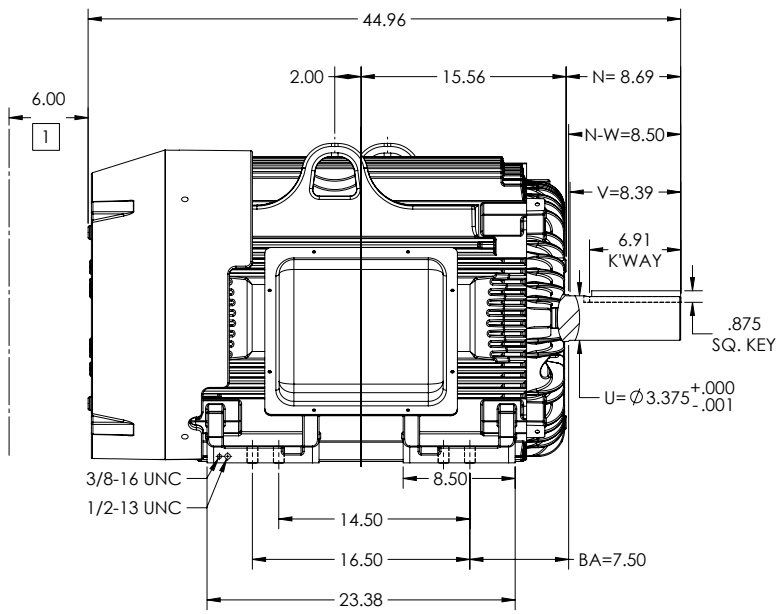
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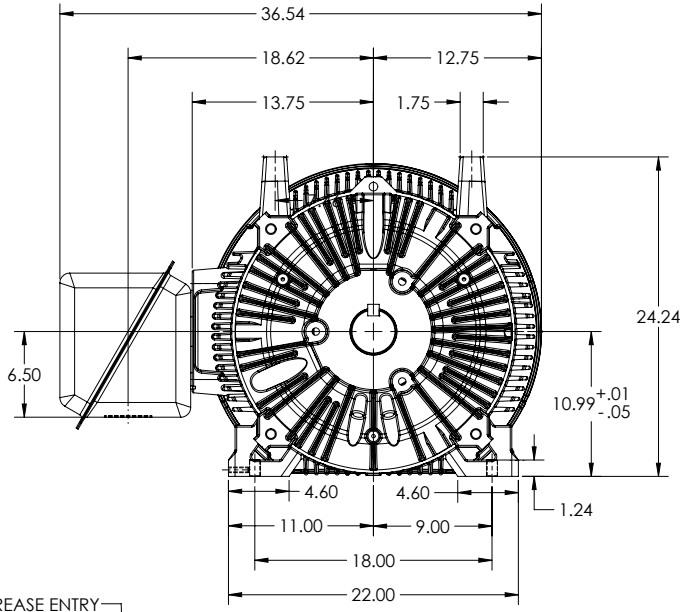
SQUIRREL-CAGE INDUCTION

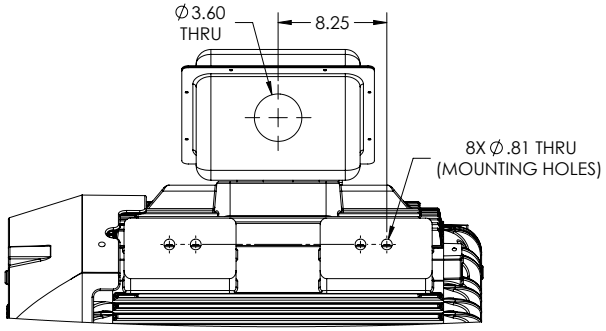
MOUNTING: FOOT, F-1 SIDE

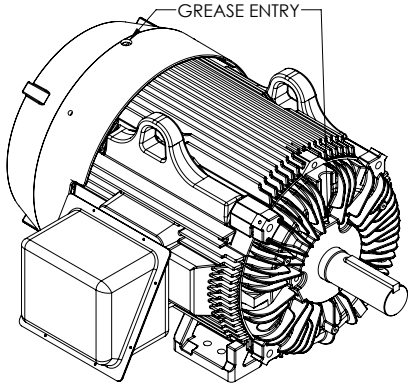
G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED









1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES.
MOTOR WEIGHTS (LBS) = 2130 ±15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617435-164

REV. DESC: ADD METRIC DS			
REV: B	VERSION: 02	REVISED: 01:13:13 06/10/2021	TDR: 000001169193
MODEL NO. 617435-164			REF:
BY: USJEDIL	Material:	C	

BALDOR

G445/444T TEFC F1 FOOT SIDE/CEN STEEL CONDUIT BOX

617435-164

DUTY MASTER ALTERNATING CURRENT MOTORS

617435-164

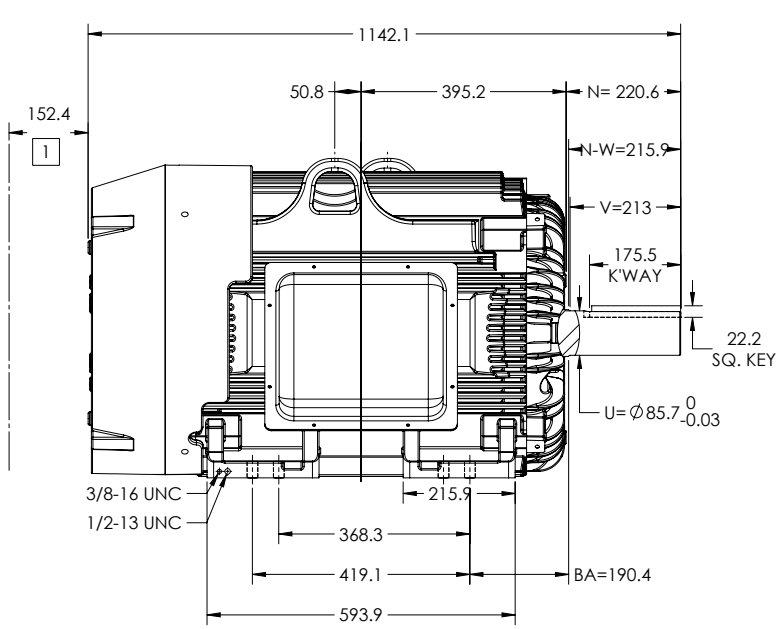
ENCLOSURE: TOTALLY ENCLOSED

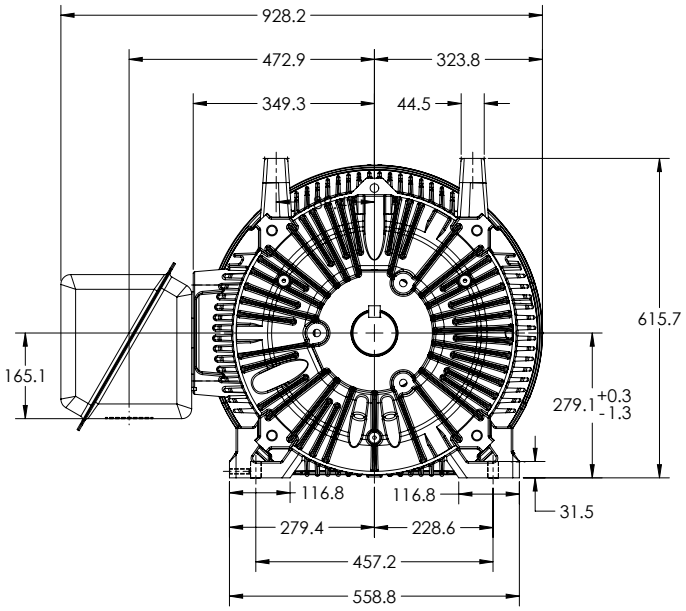
SQUIRREL-CAGE INDUCTION

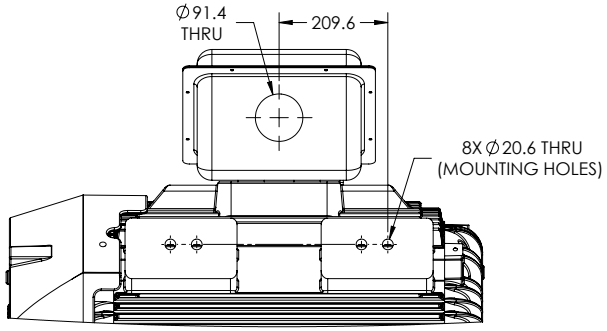
MOUNTING: FOOT, F-1 SIDE

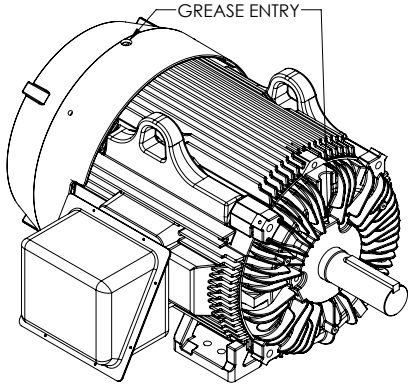
G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN MILLIMETERS.
MOTOR WEIGHTS (LBS) = 966 ±15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

SHEET NUMBER 2 OF 2

617435-164

REV. DESC: ADD METRIC DS			
REV: B	VERSION: 02	REVISED: 01:13:13 06/10/2021	TDR: 000001169193
MODEL NO. 617435-164			REF:
BY: USJEDIL	Material:		C

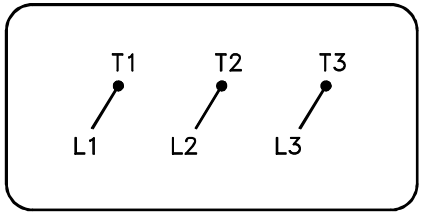
BALDOR

G445/444T TEFC F1 FOOT SIDE/CEN STEEL CONDUIT BOX

617435-164

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