ABB BALDOR RELIANCE

Customer information packet

EM4406TR-4

150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC
Class - None
Division - Not Applicable

7/8/2026 8:35:15 PM

Specifications

Enclosure	TEFC
Frame	445T
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	Mobil SHC 220 (Athens Only)
Current @ Voltage	169.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	169.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A4488M

Part Detail

Revision	U
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3783
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	04
Leads	6#2
Proprietary	False
Created date	02-18-2013

Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	86
Product Family	Other
Pulley End Bearing Type	Roller
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	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	P44G4026		**CAT.NO.**	EM4406TR-4						**FRAME**	445T	
HP	150	**VOLTS**	460		**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1785	**AMPS**	169		**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	110RU02M30X		**DUTY**	CONT			**INSUL.CLASS**	F				
OPP D.E. BEARING	90BC03J30X		**ENCL**	TEFC	**CODE**	F						
SER.NO.			**POWER FACTOR**	86					**NEMA-NOM-EFFICIENCY**		95.8	
							MAX CORR KVAR	30	**GUARANTEED EFFICIENCY**			95
									NEMA NOM/CSA QUOTED EFF			
										MOTOR WEIGHT		

NP2496L
MOBIL SHC 220 GREASE

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445VP	150	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
498865	418143053AE	---	---	.0298

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	48.9	1800	4.26	0
1/4	37.6	69.1	1796	54.4	93.6
2/4	75.0	96.9	1792	75.7	95.7
3/4	112	131	1788	83.6	96.0
4/4	150	169	1784	86.8	95.8
5/4	188	210	1779	87.9	95.3

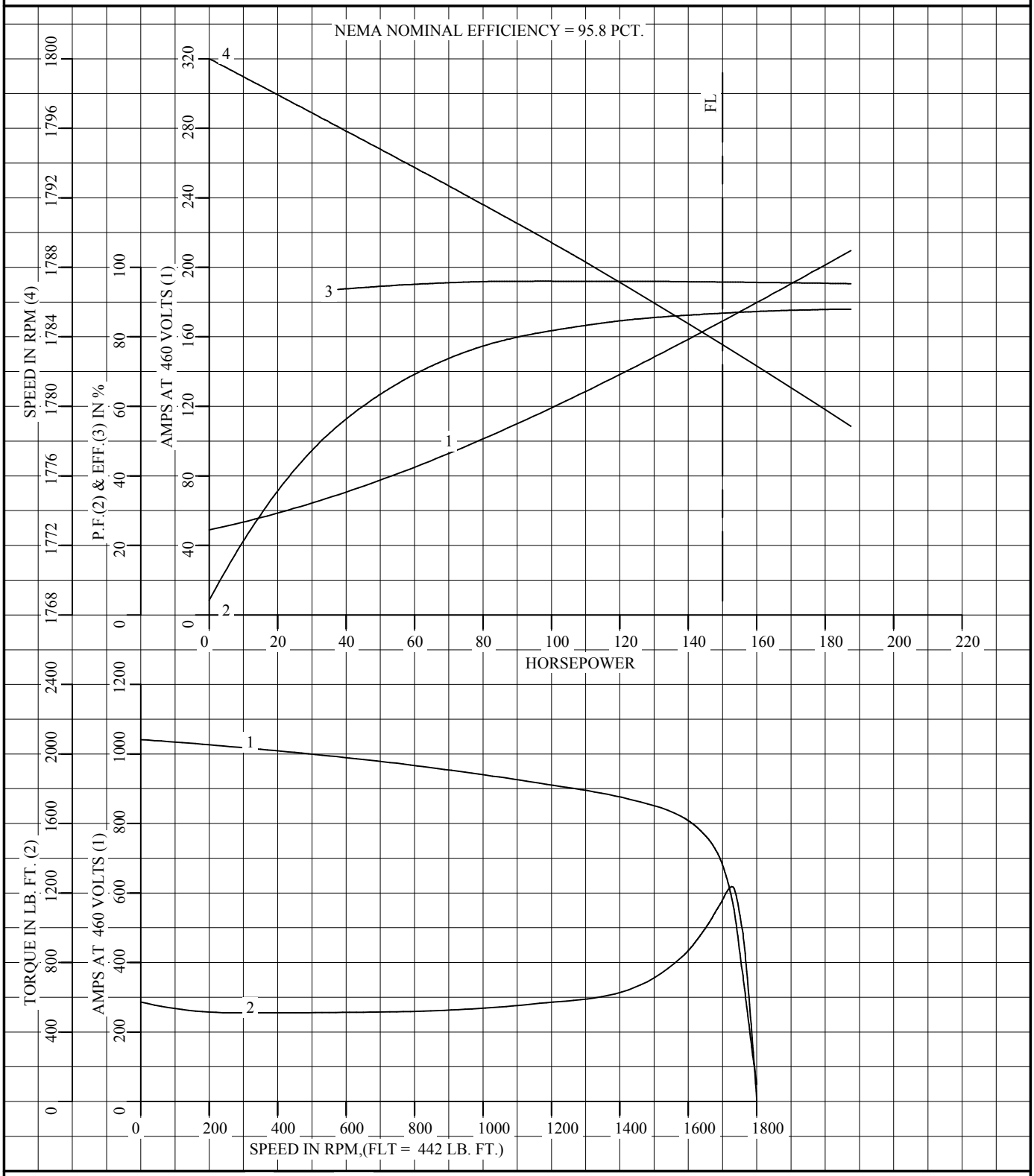
SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	130	572	1041
PULL UP	270	116	511	1020
BREAKDOWN	1729	280	1237	579
FULL LOAD	1784	100	442	169

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

REMARKS: TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

REL S.O.	RPM 1785	S.F. 1.15	ROTOR 418143053AE
FRAME 445VP	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 169	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0298
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 498865	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	CD
CK. BY	CD
APP. BY	T. KELATI
DATE	1/18/11

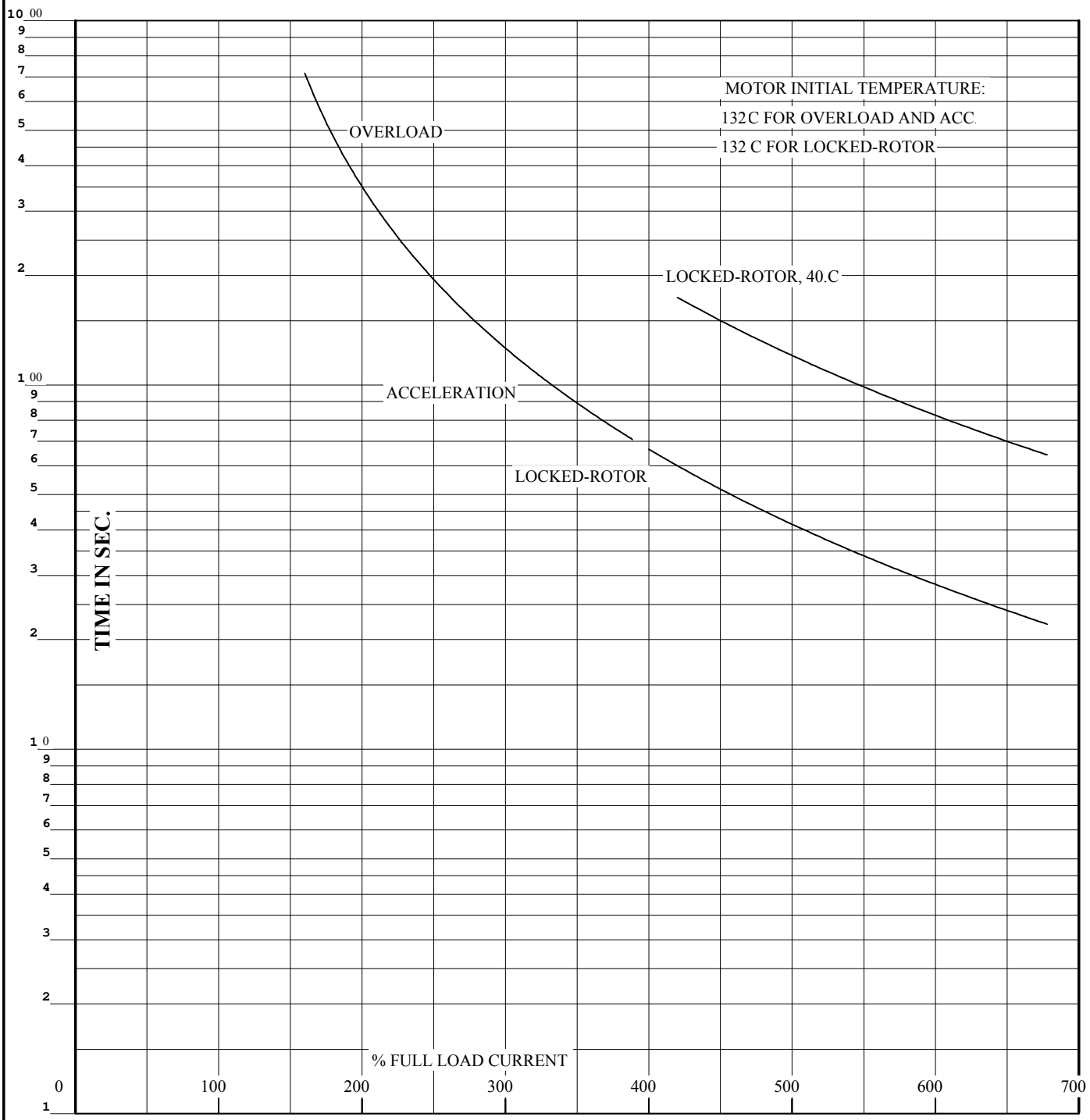
A-C MOTOR PERFORMANCE CURVES

A44WG3783-R001

ISSUE DATE 09/27/19

Printed on 9/27/19 14:03 @ bengap01.baldor.com

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 418143053AE
FRAME 445VP	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 169	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0298
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 498865	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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

DUTY MASTER ALTERNATING CURRENT MOTORS

617435-164

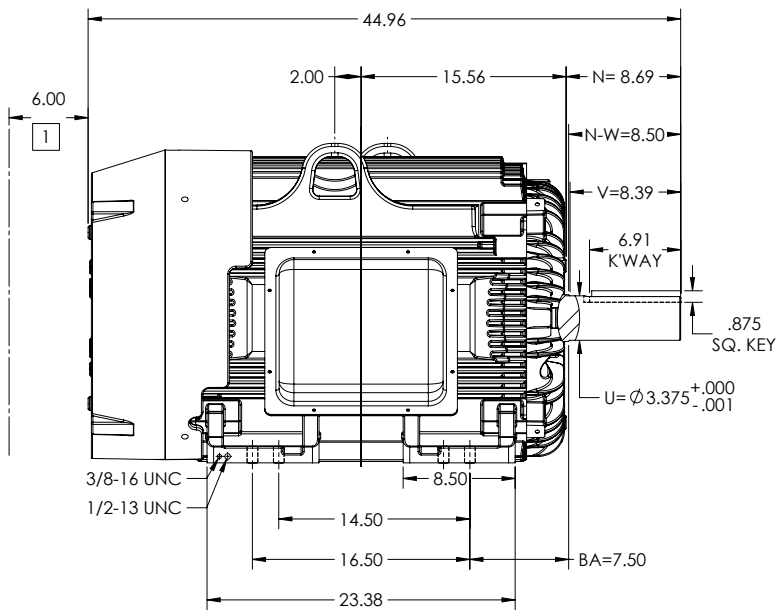
ENCLOSURE: TOTALLY ENCLOSED

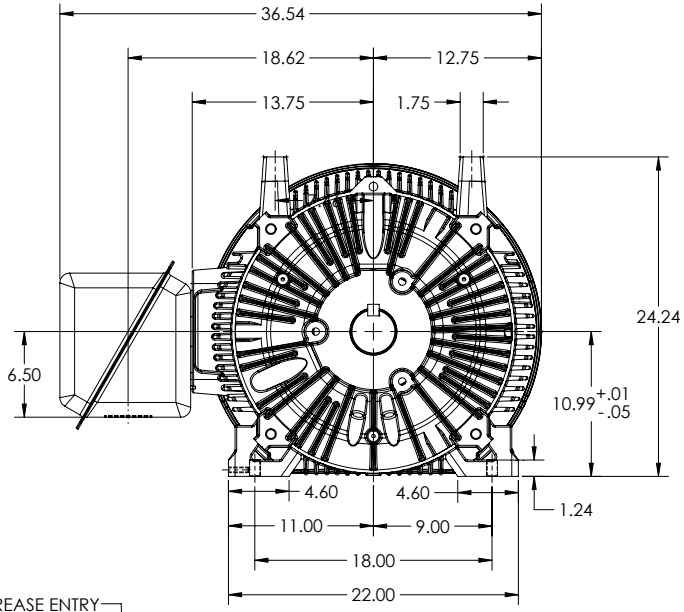
SQUIRREL-CAGE INDUCTION

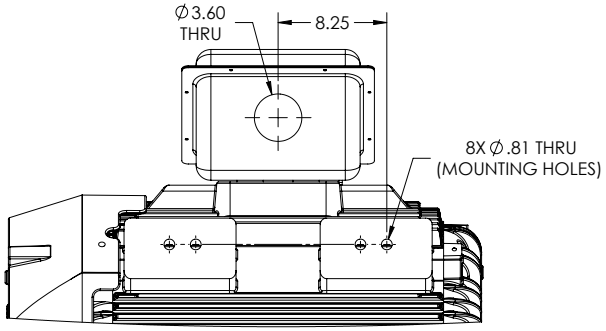
MOUNTING: FOOT, F-1 SIDE

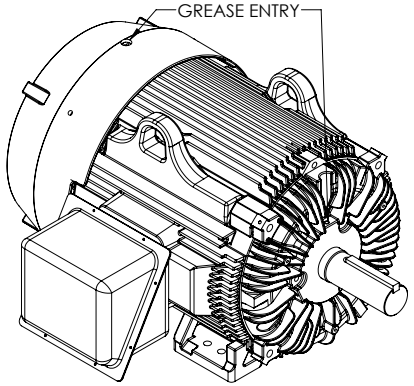
G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES.
MOTOR WEIGHTS (LBS) = 2130 ±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 .003" T.I.R.

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

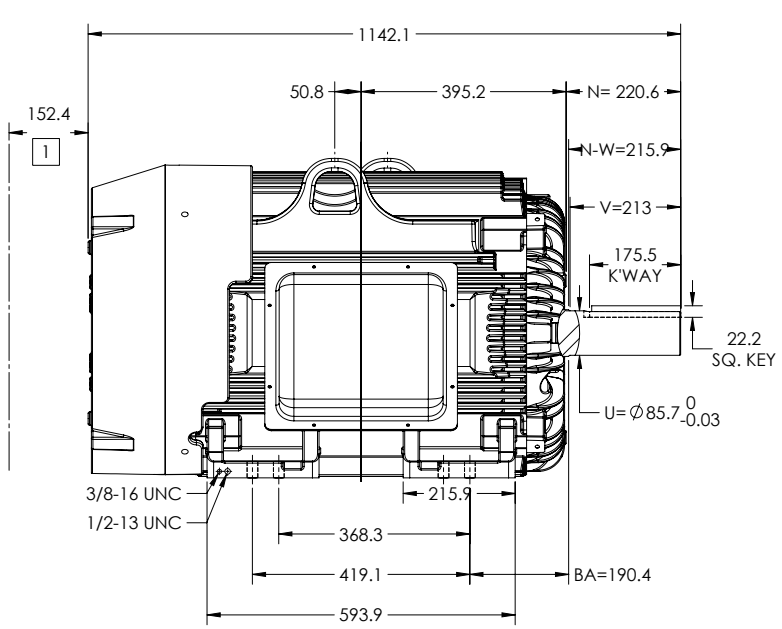
ENCLOSURE: TOTALLY ENCLOSED

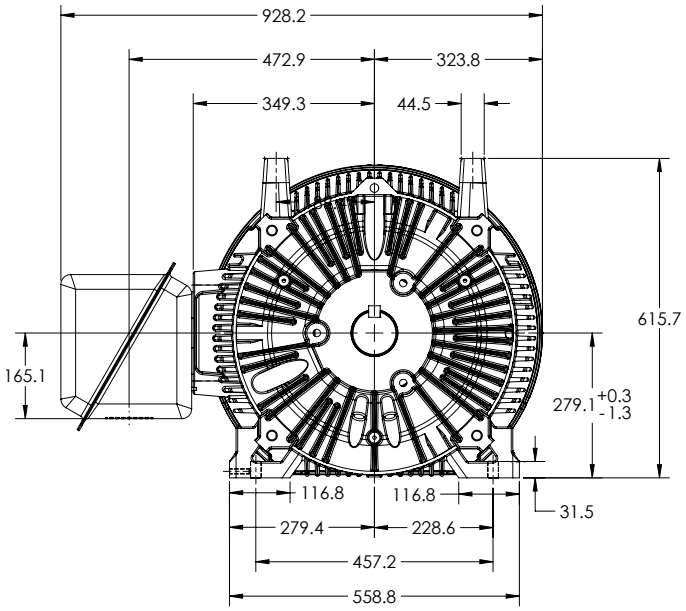
SQUIRREL-CAGE INDUCTION

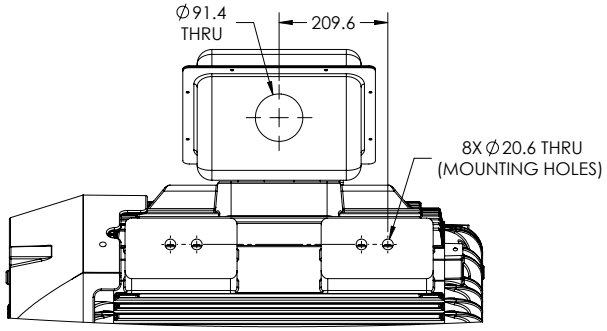
MOUNTING: FOOT, F-1 SIDE

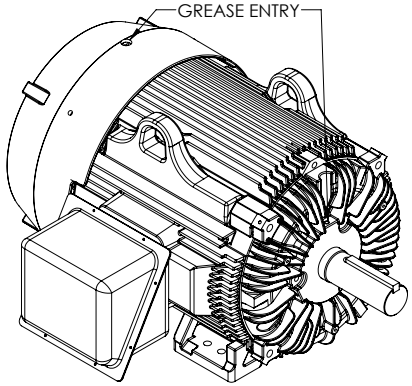
G444T/G445T FRAME MOUNTING HOLES

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

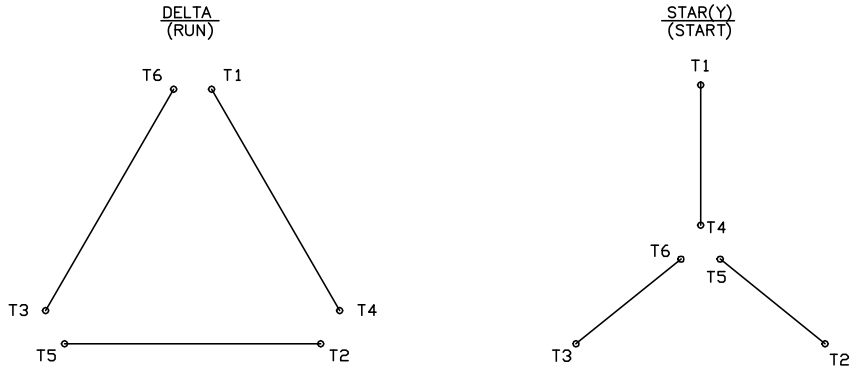
G445/444T TEFC F1 FOOT SIDE/CEN STEEL CONDUIT BOX

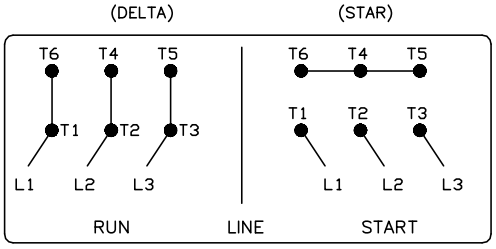
617435-164

416820-008

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START - DELTA RUN





(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10:41:26 04/08/2014	BY: RAGJSS1
MTL: -		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

416820-008