ABB BALDOR RELIANCE

Customer information packet

ECP4412T-4

125HP, 3570RPM, 3PH, 60HZ, 444TS, A4468M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	444TS
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	15-60
Current @ Voltage	137.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	137.0 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

Part Detail

Revision	Y
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3534
Layout	617427-493
Eff. date	03-17-2026
CD Diagram	416820-036
Poles	02
Leads	3#2 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Type	A4468M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	40.83 IN
Power Factor	89
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	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238												
CAT NO	ECP4412T-4		**SPEC NO.**	P44G3943								
HP	125	**AMPS**	137		**VOLTS**	460			**DESIGN**	B		
FRAME	444TS	**RPM**	3570	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6313		**O.D.E. BRG.DATA**		6313		**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F
D.E. BRG.	65BC03J30X		**TYPE**	P	**ENCL**	TEFC	**CODE**	F				
O.D.E. BRG.	65BC03J30X		**POWER FACTOR**		89		**NEMA NOM EFFICIENCY**			95		
3/4 LOAD EFF.	95.5		**MAX CORR KVAR**		18.0		**GUARANTEED EFFICIENCY**			94.1		
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-75	**CT HZ**	15-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.			**MOTOR WEIGHT**									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444TS	125	P	3/60	3570	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
-	418143-8-RE	---	---	.0343

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	30.4	3600	7.45	0
1/4	31.3	51.0	3593	62.3	92.1
2/4	62.5	76.5	3585	80.7	94.9
3/4	93.8	106	3578	87.1	95.5
4/4	125	137	3570	89.3	95.4
5/4	156	171	3562	89.9	95.0

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	125	229	873
PULL UP	288	102	187	804
BREAKDOWN	3461	277	509	456
FULL LOAD	3570	100	184	137

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

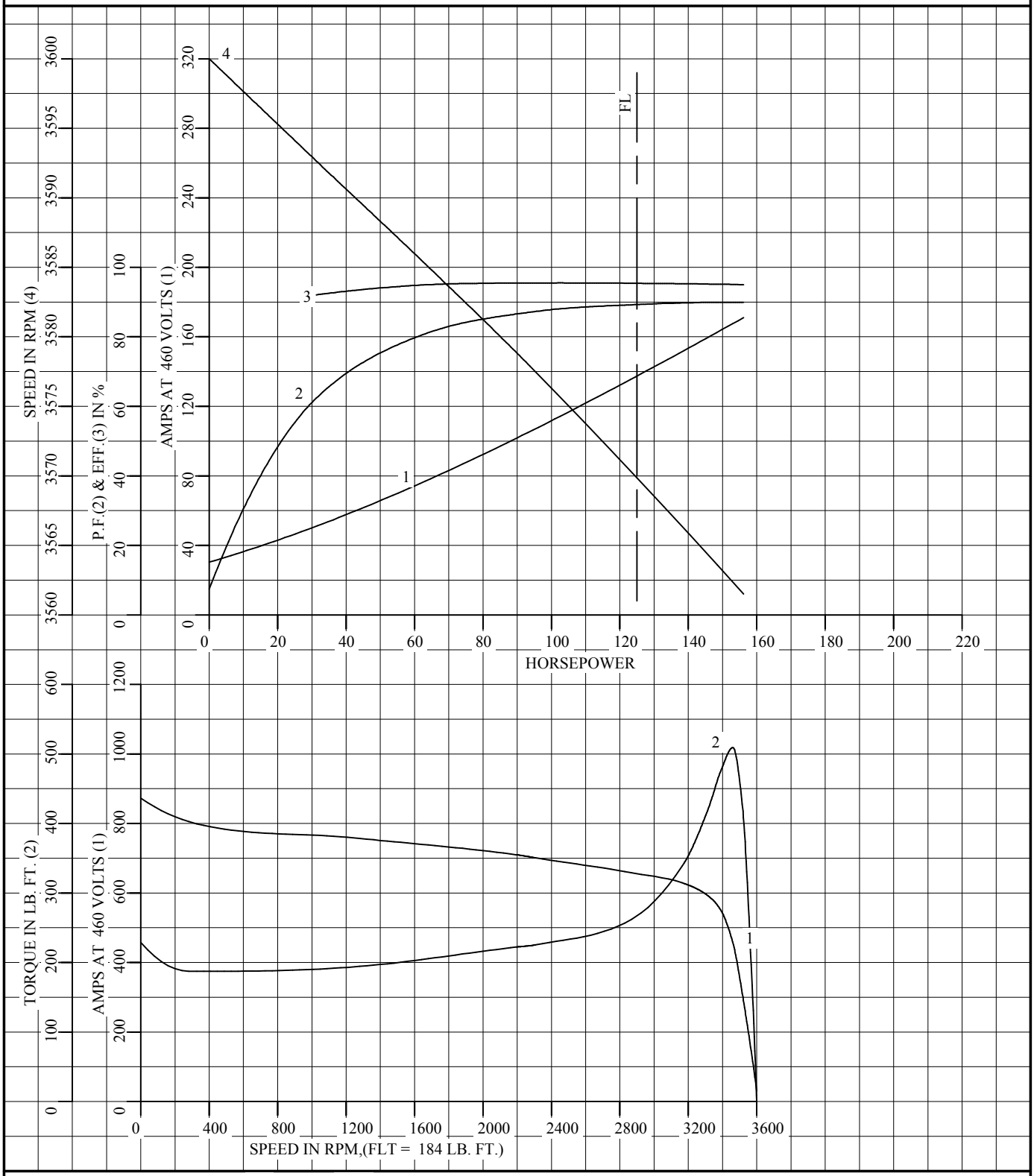
REMARKS: TYPICAL DATA

BALDOR A MEMBER OF THE ABB GROUP

DR. BY J. TSAO
CK. BY T. KELATI
APP. BY T.KELATI
DATE 08/10/11

A-C MOTOR PERFORMANCE DATA A44WG3534-R001
ISSUE DATE 04/05/21

REL S.O.	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
FRAME 444TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 137	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0343
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S –	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

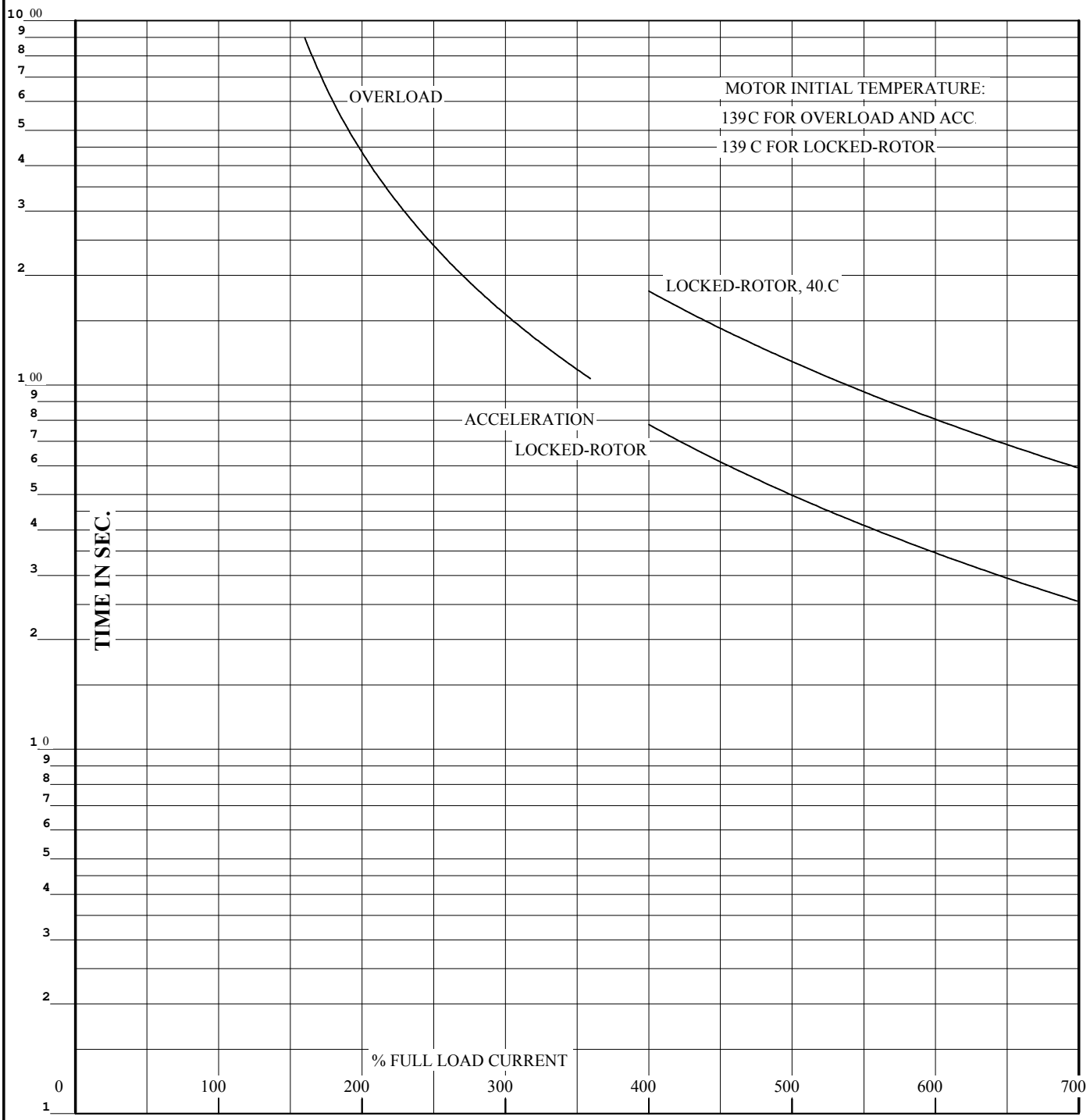
DR. BY	J. TSAO
CK. BY	T. KELATI
APP. BY	T.KELATI
DATE	08/10/11

A-C MOTOR PERFORMANCE CURVES

A44WG3534-R001

ISSUE DATE 04/05/21

REL. S.O.	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
FRAME 444TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 137	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0343
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

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

617427-493

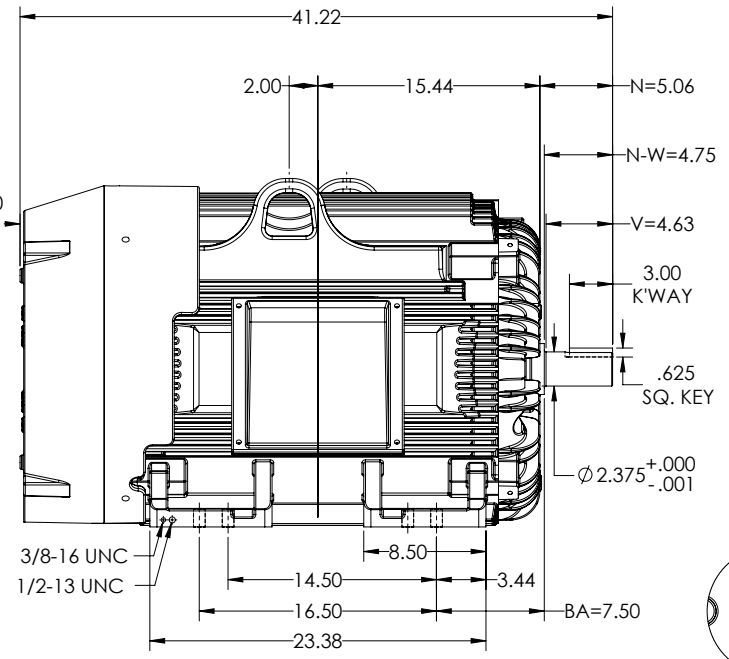
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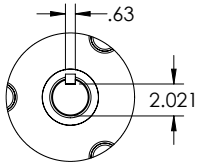
SQUIRREL-CAGE INDUCTION

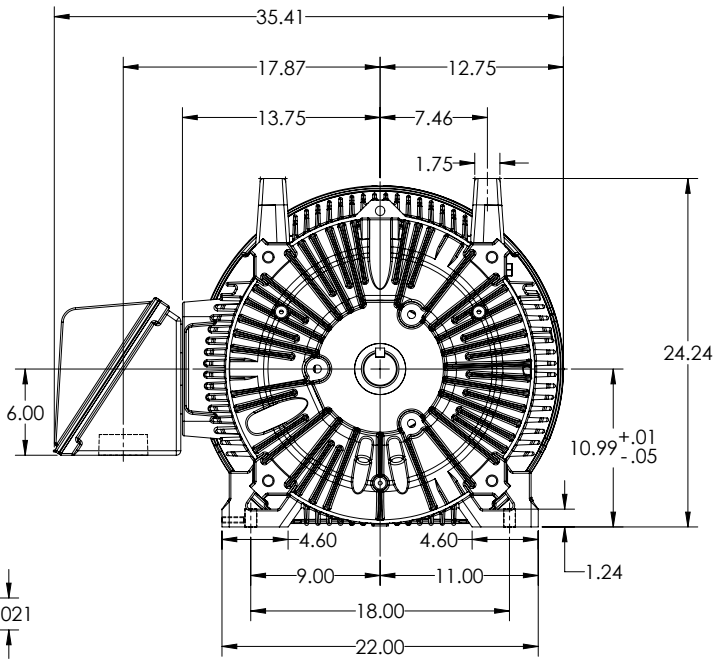
MOUNTING: FOOT, F-1 SIDE

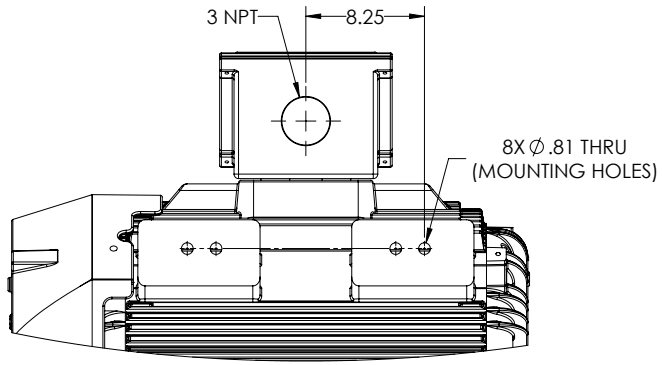
G444TS/G445TS FRAME MOUNTING

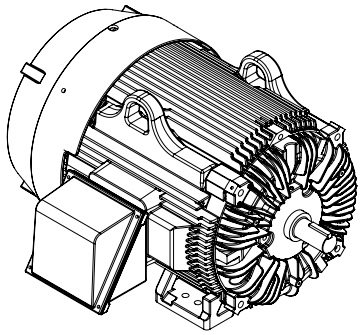
COOLING: FAN COOLED











DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2130, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617427-493

1 OBSTRUCTION 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.

REV. DESC: ADD KEY DETAIL			
REV: B	VERSION: 02	REVISED: 08:36:26 10/01/2021	TDR: 000001178327
MODEL NO. 617427-493			REF:
BY: USJEDIL	Material:	C	BALDOR
G445TS/444TS F1 TEFC FOOT/CAST IRON CONDUIT BOX			

617427-493

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-493

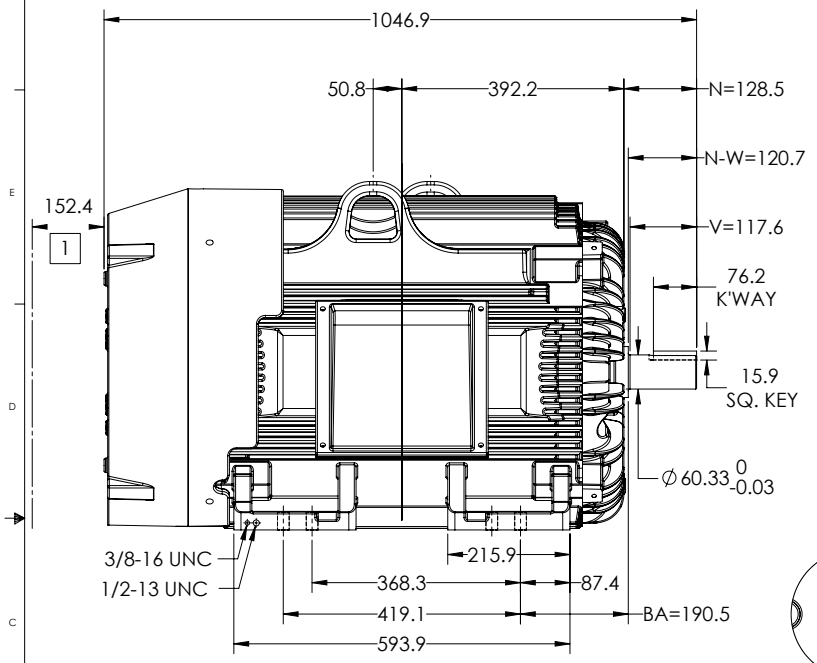
ENCLOSURE: TOTALLY ENCLOSED

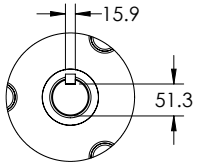
SQUIRREL-CAGE INDUCTION

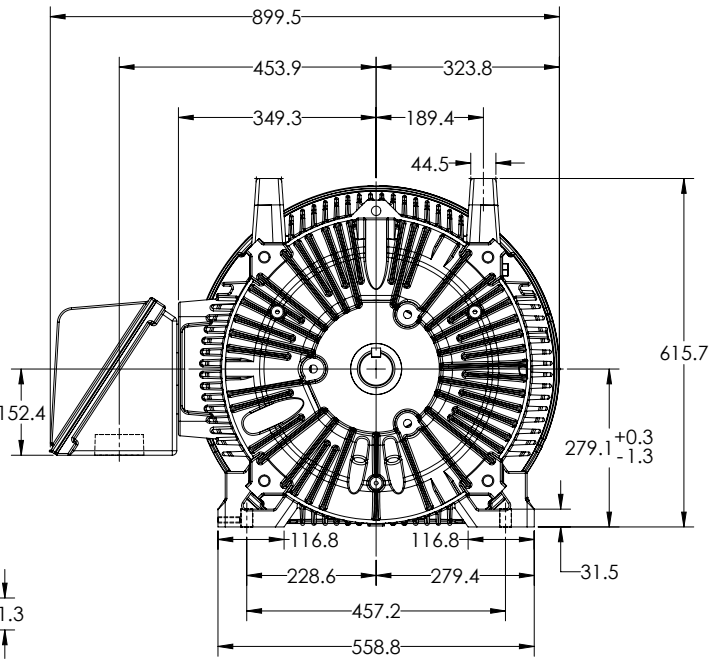
MOUNTING: FOOT, F-1 SIDE

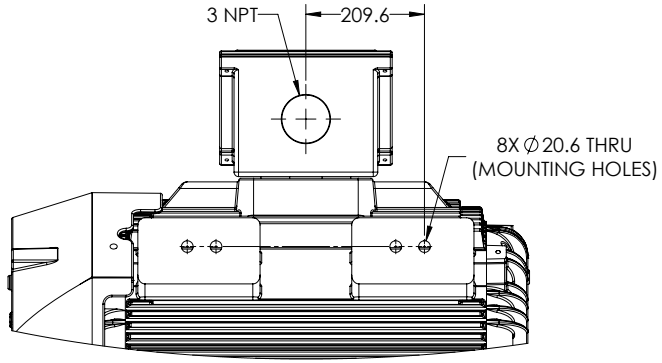
G444TS/G445TS FRAME MOUNTING

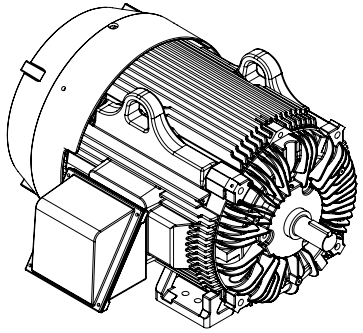
COOLING: FAN COOLED











DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KG): 966. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 2 OF 2

617427-493

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

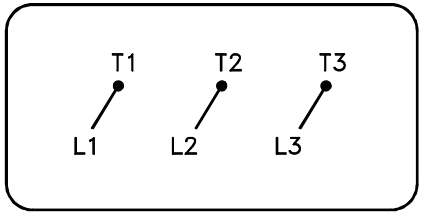
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

REV. DESC: ADD KEY DETAIL			
REV: B	VERSION: 02	REVISED: 08:36:26 10/01/2021	TDR: 000001178327
MODEL NO. 617427-493			REF:
BY: USJEDIL	Material:	C	BALDOR
			G445TS/444TS F1 TEFC FOOT/CAST IRON CONDUIT BOX

617427-493

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