ABB BALDOR RELIANCE

Customer information packet

EM4406T-5

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

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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	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	135.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	135.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3784
Layout	617435-164
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	08-13-2012

Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	86
Product Family	Other
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	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L											
SPEC NO.	P44G3908	**CAT.NO.**	EM4406T-5					**FRAME**	445T		
HP	150	**VOLTS**	575	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1785	**AMPS**	135	**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	90BC03J30X	**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	30.0	**GUARANTEED EFFICIENCY**	95.0		
						NEMA NOM/CSA QUOTED EFF					
								MOTOR WEIGHT			

Parts List

Part number	Description	Quantity
SA249402	SA P44G3908	1.000 ea
RA236267	RA P44G3908	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
412118006A	DRAIN	2.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415072001B	CLAMP	1.000 ea
083199126RA	G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
410700004A	WSHR	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
702658001A	CONDUIT BOX, E440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	1.000 ea
415915007G	GASK, LAC	1.000 ft
406056008A	GASKET, TERBD 440	1.000 ea
418153001A	GASK 440	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea

415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
MG1025Y17	WILKOFAST, 789.701, SUPER E PEARL GOLD	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
418151014G	RETAIN RING	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
000692000FF	N/P	1.000 ea
PK5004A09	BASE 48 X 39-1/4 WITH STACKED 2X4 RUUNER	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445LP	150	P	3/60	1785	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25°C OHMS (BETWEEN LINES)
498866	0	---	---	.0465

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	39.2	1800	4.26	0
1/4	37.6	55.4	1796	54.3	93.6
2/4	75.0	77.8	1792	75.5	95.7
3/4	112	105	1788	83.3	96.0
4/4	150	136	1784	86.3	95.8
5/4	188	169	1779	87.3	95.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	130	572	833
PULL UP	270	116	511	816
BREAKDOWN	1729	280	1237	463
FULL LOAD	1784	100	442	136

AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

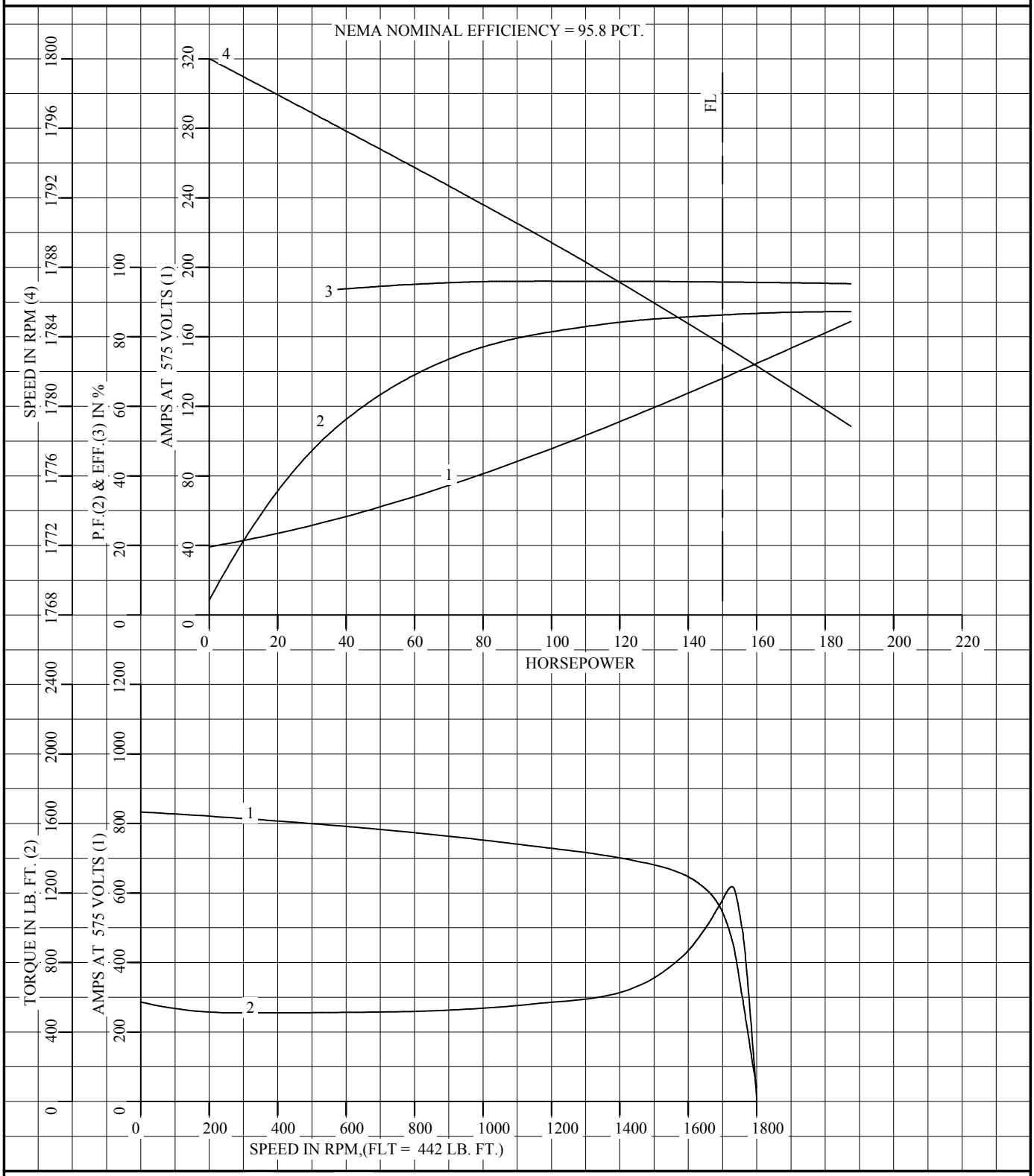
REMARKS: TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C. JAMISON
CK. BY W. SMITH
APP. BY W. SMITH
DATE 1/18/11

A-C MOTOR PERFORMANCE DATA A44WG3784-R001
ISSUE DATE 06/18/18

REL S.O.		RPM	1785	S.F.	1.15	ROTOR	0
FRAME	445LP	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	150	AMPS	135	CODE LETTER	F	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 ℃	.0465
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	E/S	498866		OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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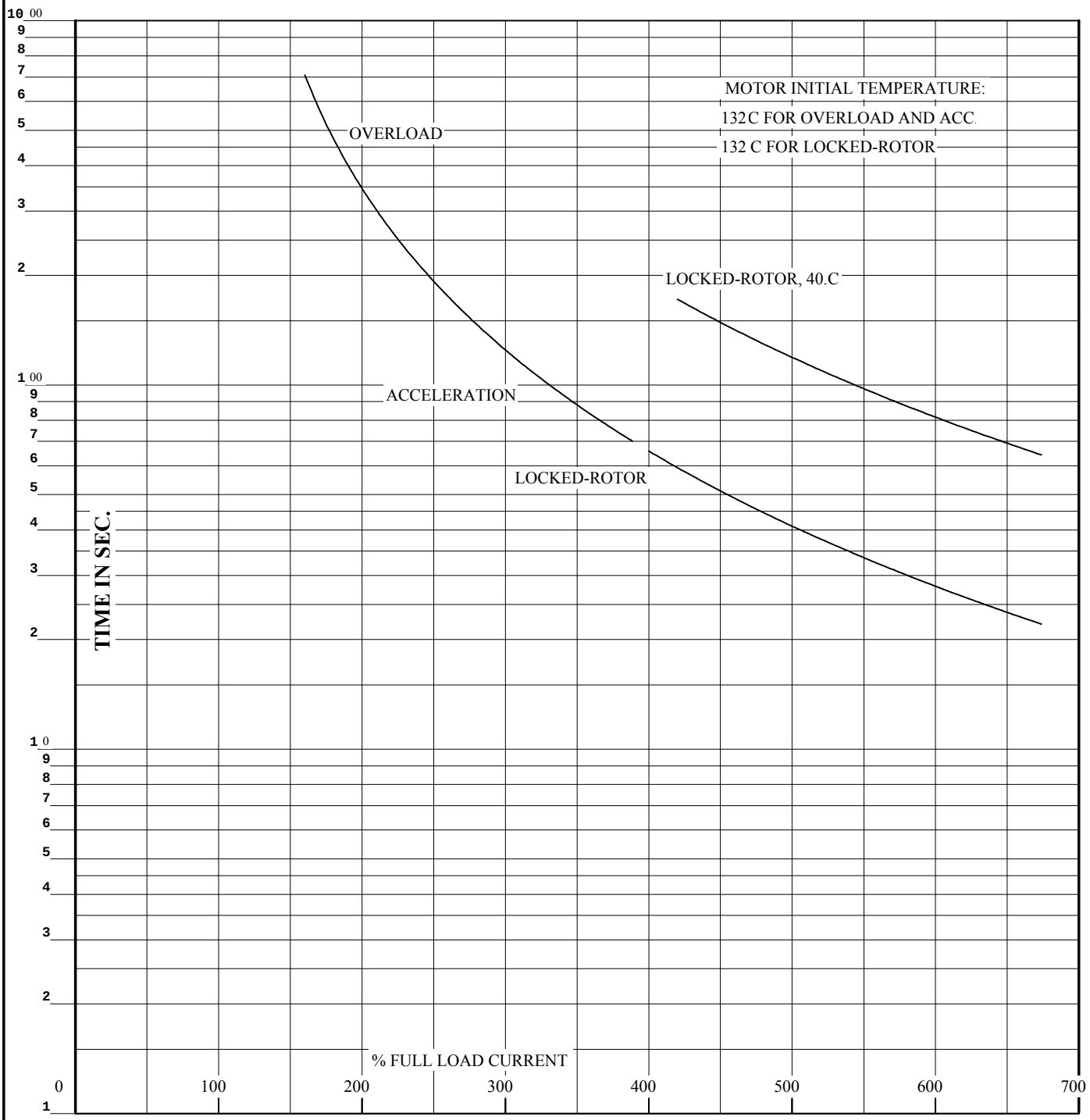
DR. BY	C. JAMISON
CK. BY	W. SMITH
APP. BY	W. SMITH
DATE	1/18/11

A-C MOTOR PERFORMANCE CURVES

A44WG3784-R001

ISSUE DATE 06/18/18

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 0
FRAME 445LP	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 135	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0465
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 498866	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

AMPERES SHOWN FOR 575 **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	C. JAMISON
CK. BY	W. SMITH
APP. BY	W. SMITH
DATE	1/18/11

A-C MOTOR PERFORMANCE CURVES A44WG3784-R001 ISSUE DATE 06/18/18

Printed on 6/18/18 15:36 @ bengap01.ba

DUTY MASTER ALTERNATING CURRENT MOTORS

617435-164

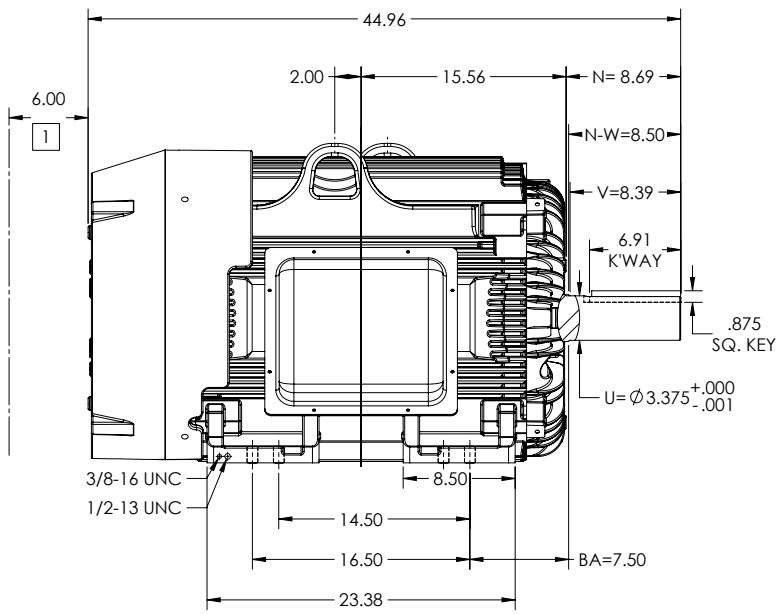
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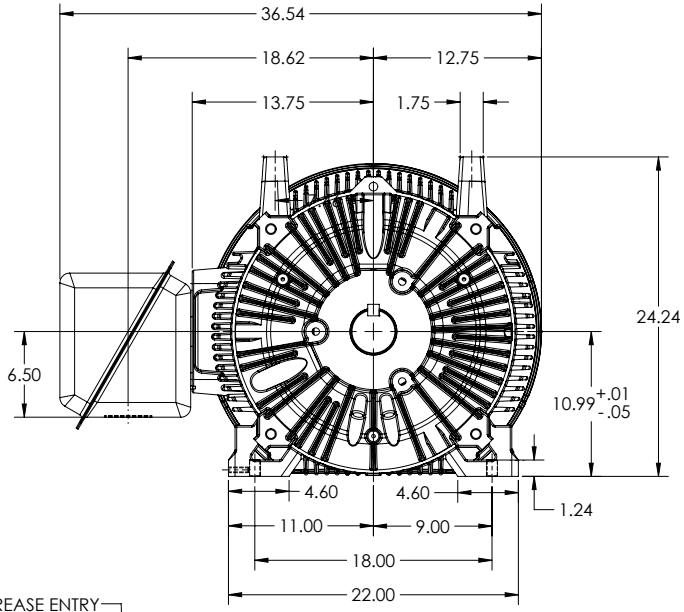
SQUIRREL-CAGE INDUCTION

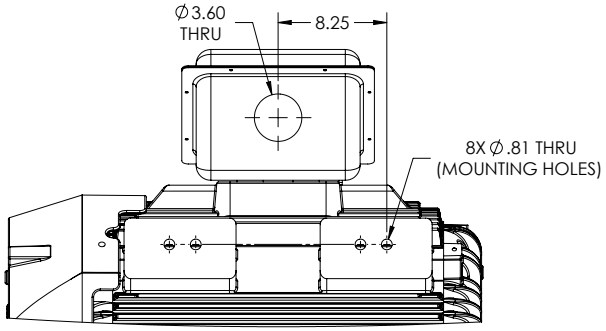
MOUNTING: FOOT, F-1 SIDE

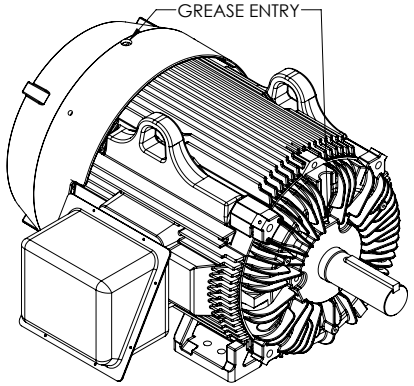
G444T/G445T FRAME MOUNTING HOLES

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

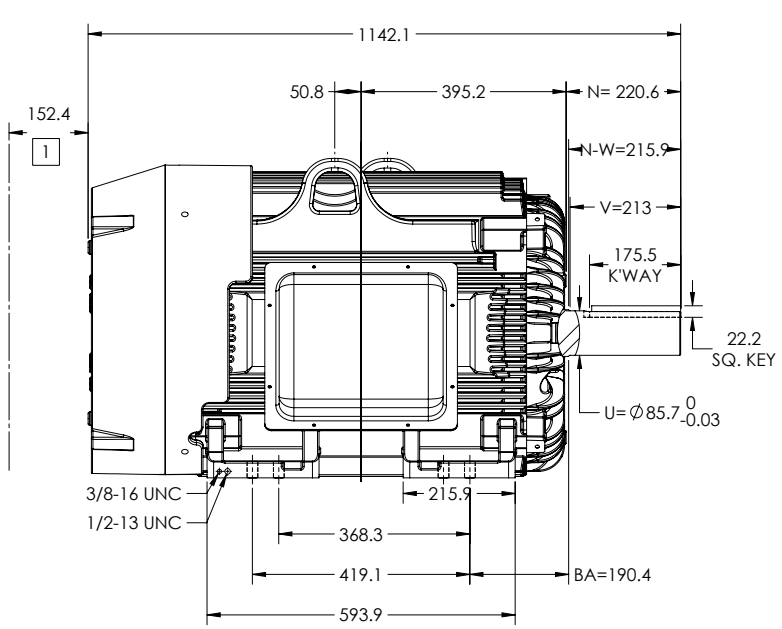
ENCLOSURE: TOTALLY ENCLOSED

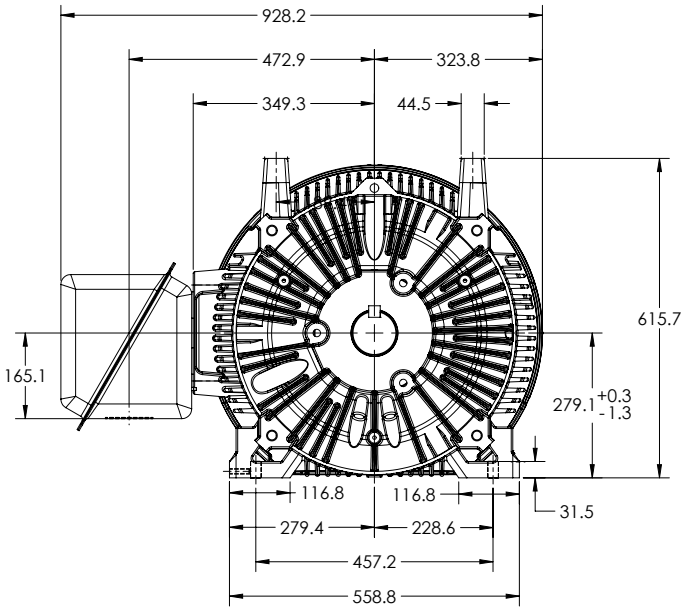
SQUIRREL-CAGE INDUCTION

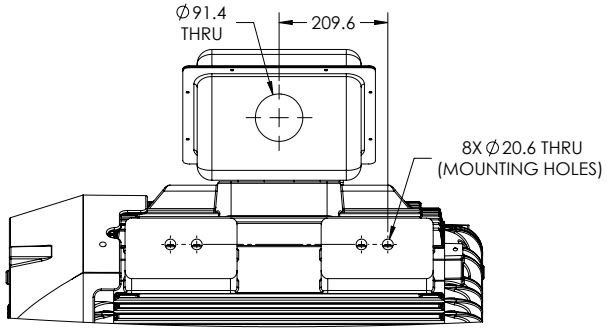
MOUNTING: FOOT, F-1 SIDE

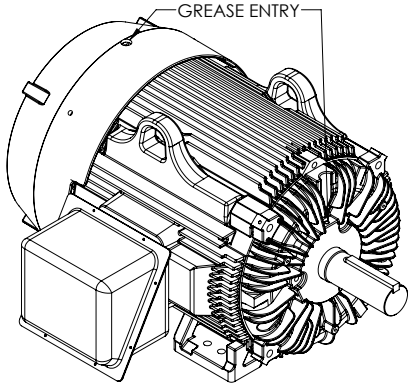
G444T/G445T FRAME MOUNTING HOLES

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

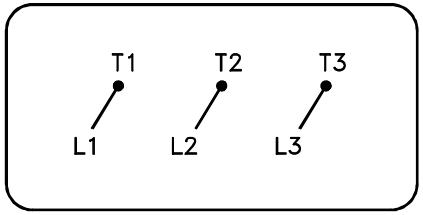
BALDOR

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