ABB BALDOR RELIANCE

Customer information packet

EWDM4419T

75HP, 890RPM, 3PH, 60HZ, 444T, TEFC, F1
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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	179.000 A @ 230.0 V
	89.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	89.3 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	IP55
KVA Code	F

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4750
Layout	617427-507
Eff. date	09-26-2019
CD Diagram	416820-002
Poles	08
Leads	3#2,6#4
Proprietary	False
Created date	09-12-2019

Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44072M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	44.97 IN
Power Factor	83
Product Family	Washdown Features
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	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

NP2428L												
SPEC NO.	A44-8400-4750	**CAT.NO.**	EWDM4419T						**FRAME**	444T		
HP	75	**VOLTS**	230/460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	890	**AMPS**	179/89.3	**HZ**	60	**AMB**	40	**SF**	1.15			
DRIVE END BEARING	90BC03JPP30A	**DUTY**	CONT	**INSUL.CLASS**	F							
OPP D.E. BEARING	90BC03JPP30A	**ENCL**	TEFC	**CODE**	F							
SER.NO.		**POWER FACTOR**	83			**NEMA-NOM-EFFICIENCY**	93.6					
						MAX CORR KVAR	19	**GUARANTEED EFFICIENCY**	92.4			
	IP55					**NEMA NOM/CSA QUOTED EFF**						
	2:1CT AND 2:1VT ON VPWM INVERT			ER, 1.00SF				**MOTOR WEIGHT**				

Parts List

Part number	Description	Quantity
SA374268	SA A44-8400-4750	1.000 ea
RA364114	RA A44-8400-4750	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000CY	N/P	2.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2428L	WASHDOWN DUTY MOTOR, SS, CC, CSA-C	1.000 ea
412118006A	DRAIN	2.000 ea
034690005AB	PPLG 3/4 PLATED	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
083199082P	G28 FAN COVER MACHINING SHORT VERSION	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
702618004T	FAN KB 182/70 (112) 440	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032018020FN	HHCS 3/4-10X2-1/2304S.S., NAVY	4.000 ea
032018008CN	HHCS 3/8-16X1 304 SS-360	4.000 ea
032018030DN	HHCS1/2-13X3-3/4304S.S449, NAVY	3.000 ea
415045002A	SLGR	1.000 ea
410700004A	WSHR	1.000 ea
423709011C	WASHER	3.000 ea
034017014AE	LCKW 3/8 304S.S.	4.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
032620016LD	HEX SOCKET SET SCREW (COARSE THREAD)	3.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea

089490099P	G28 BRKT FT MNT 6318 & INNER LIP SL BORE	1.000 ea
032018020FN	HHCS 3/4-10X2-1/2304S.S., NAVY	4.000 ea
032018030DN	HHCS1/2-13X3-3/4304S.S449, NAVY	3.000 ea
415045002A	SLGR	1.000 ea
415028001Z	SEAL - 400/440	1.000 ea
423709011C	WASHER	3.000 ea
415915007K	GASK, 26" LAC	1.000 ea
076863000C	+CBCST BLKT - 440	1.000 ea
406056007A	GASKET, 440	1.000 ea
076864000A	*MFC MOVE* CBCST BLKT - 440	1.000 ea
067053001C	GASK 440	1.000 ea
032018008BN	HHCS 5/16-18X1 304S.S., NAVY	4.000 ea
032018008DN	HHCS 1/2-13X1L 304 S.S., NAVY	4.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
004824003AJF	WILKO781.01 WHITE2 COATS - MG1025W01	0.438 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	75	P	3/60	890	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
179/89.3	CONT	40/F	1.15	B	F	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
497436	418143-083-PE	---	---	.0181/.0724

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	28.9	900	6.23	0
1/4	18.8	35.5	897	55.0	89.9
2/4	37.5	49.3	895	76.2	93.4
3/4	56.2	67.5	892	82.9	94.1
4/4	75.0	89.3	889	83.7	93.9
5/4	93.8	115	885	82.0	93.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	148	658	510
PULL UP	250	139	616	466
BREAKDOWN	843	241	1068	299
FULL LOAD	889	100	443	89.3

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

REMARKS: TYPICAL DATA
XE MOTOR - NEMA NOM EFF 93.6%

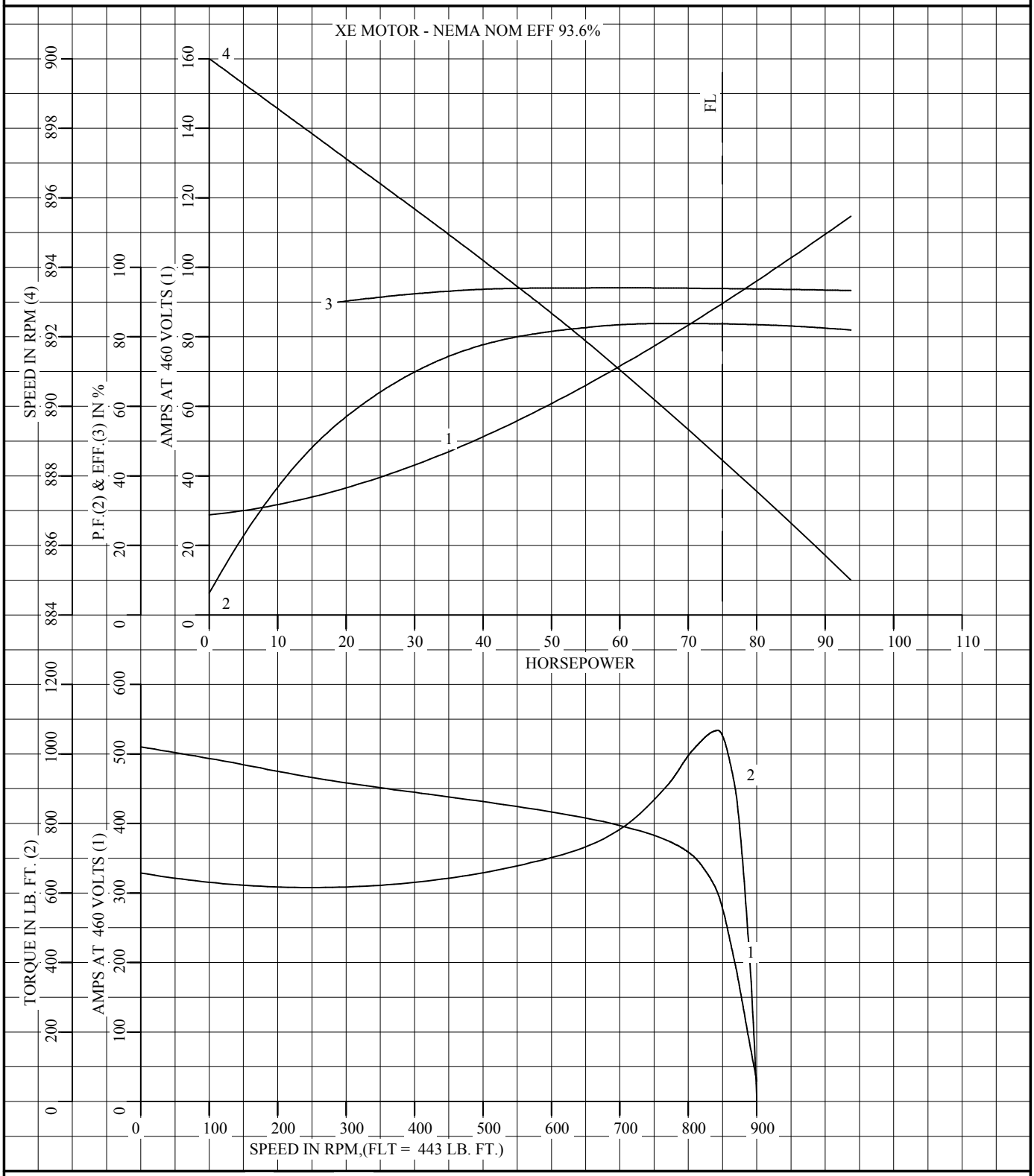
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C.E. JAMISON
CK. BY W.L. SMITH
APP. BY C.E. JAMISON
DATE 10/26/17

A-C MOTOR PERFORMANCE DATA

A44WG4750-R002
ISSUE DATE 08/25/20

REL S.O.	RPM 890	S.F. 1.15	ROTOR 418143-083-PE
FRAME 444T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 179/89.3	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0181/.0724
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 497436	OHMS (BETWEEN LINES)



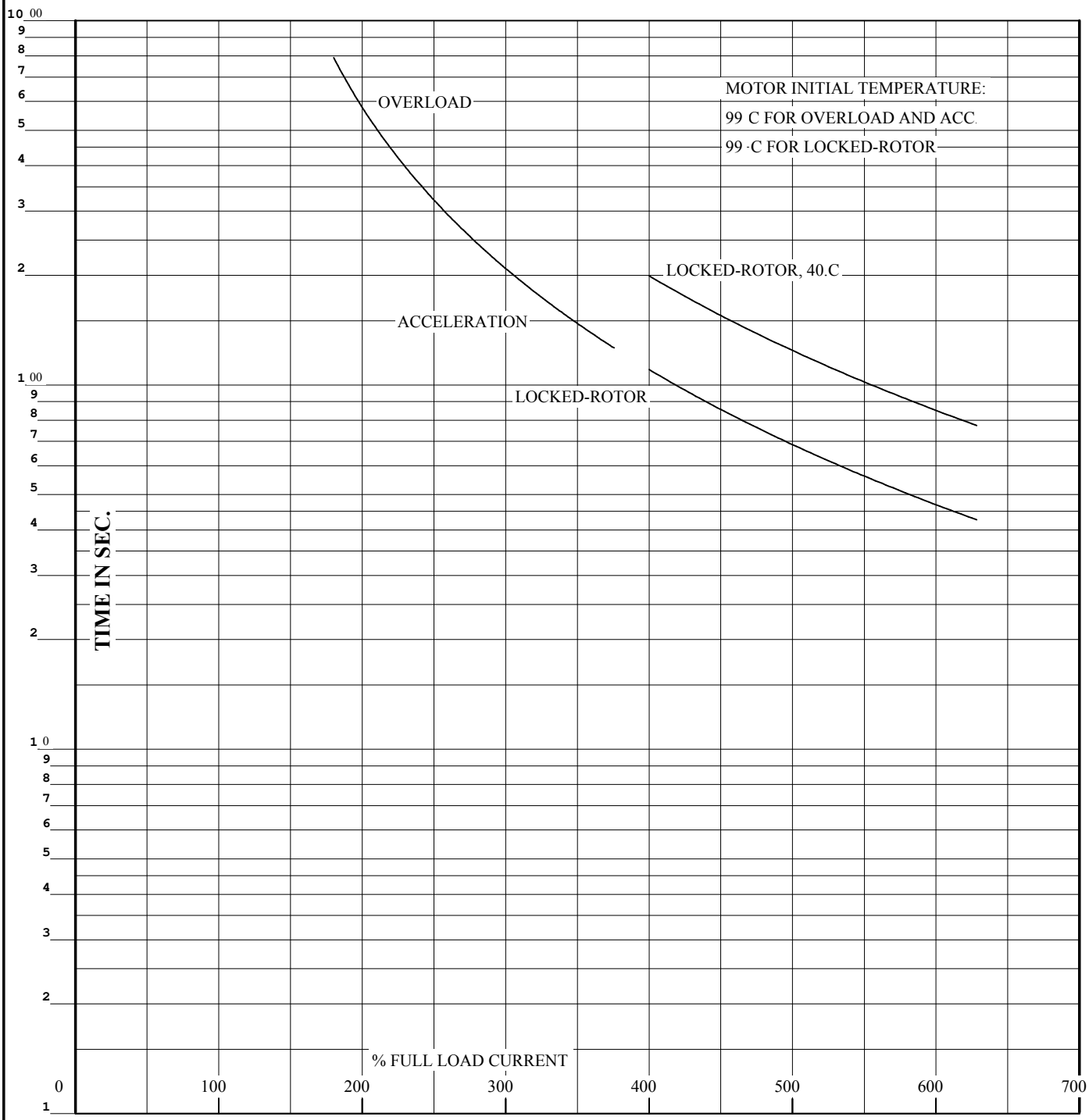
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	C.E. JAMISON
DATE	10/26/17

A-C MOTOR PERFORMANCE CURVES A44WG4750-R002
ISSUE DATE 08/25/20

REL. S.O.	RPM 890	S.F. 1.15	ROTOR 418143-083-PE
FRAME 444T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 179/89.3	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0181/.0724
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 497436	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR - NEMA NOM EFF 93.6%

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	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	C.E. JAMISON
DATE	10/26/17

A-C MOTOR PERFORMANCE CURVES

A44WG4750-R002

ISSUE DATE 08/25/20

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-507

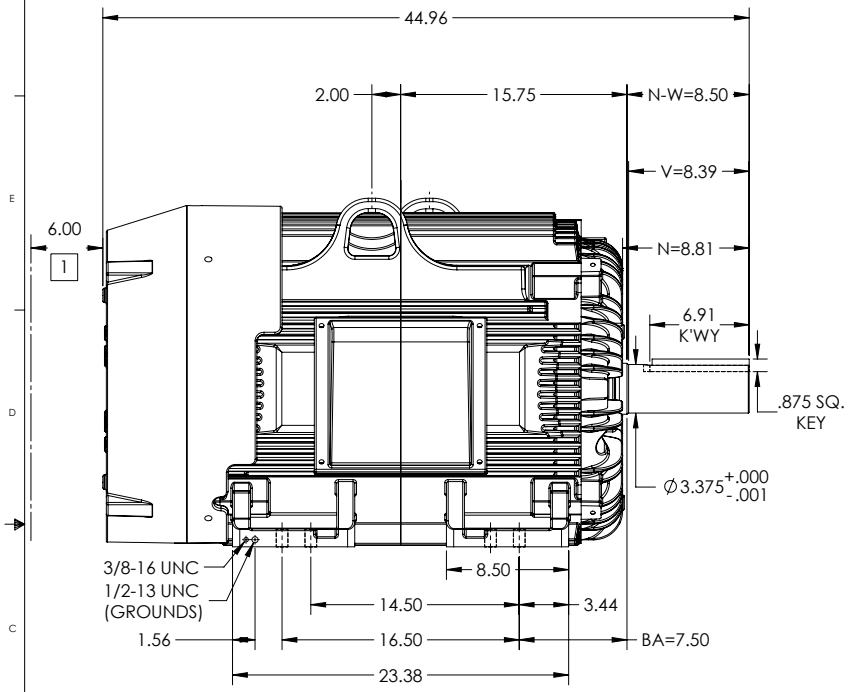
ENCLOSURE: TOTALLY ENCLOSED

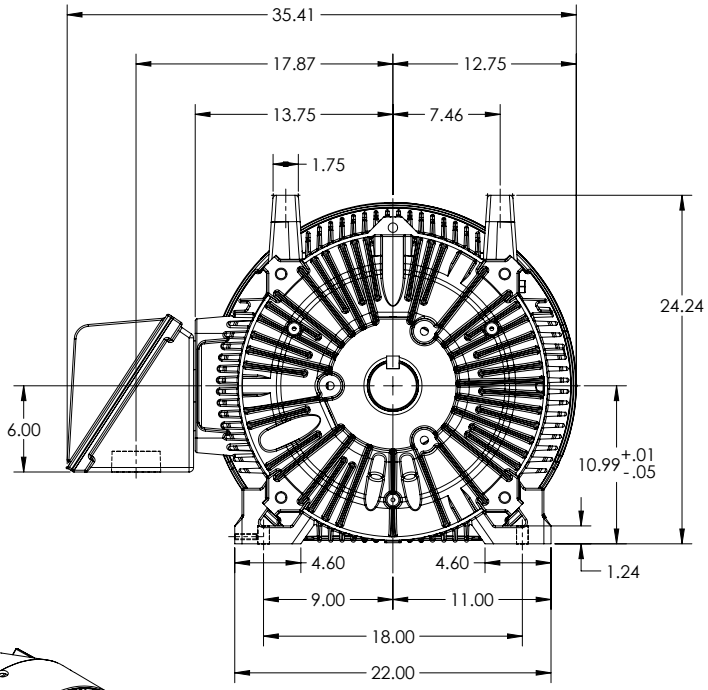
SQUIRREL-CAGE INDUCTION

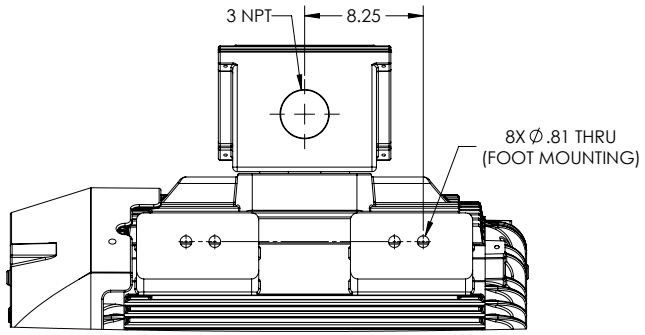
MOUNTING: FOOT, F-1 SIDE

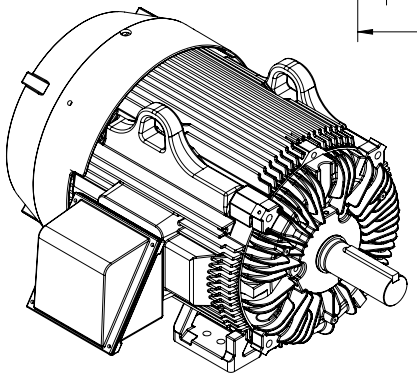
G444T/G445T FRAME MOUNTING HOLES

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

617427-507

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 ADDITIONAL FOOT MOUNTING DIMS TO THE DS			
REV: C	VERSION: 03	REVISED: 07:57:50 01/13/2023	TDR: 000001202430
MODEL NO. 617427-507			REF: -
BY: USJEDIL	Material: –	C	

BALDOR

G445/444T TEFC F1 FOOT CAST IRON BOX

617427-507

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-507

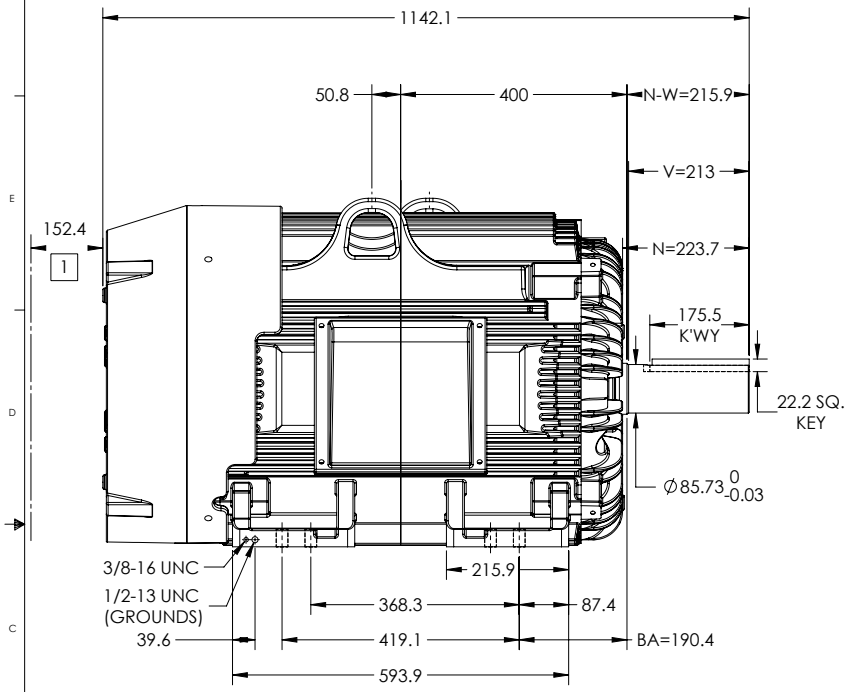
ENCLOSURE: TOTALLY ENCLOSED

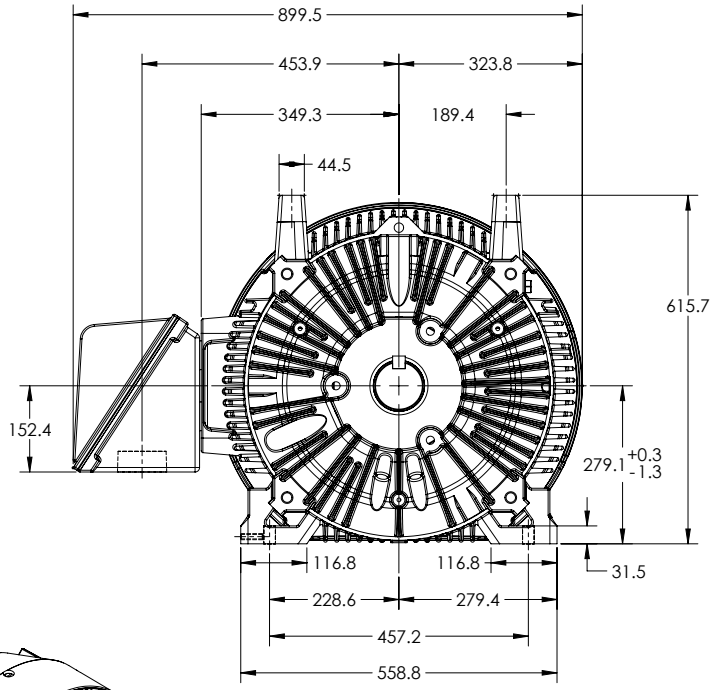
SQUIRREL-CAGE INDUCTION

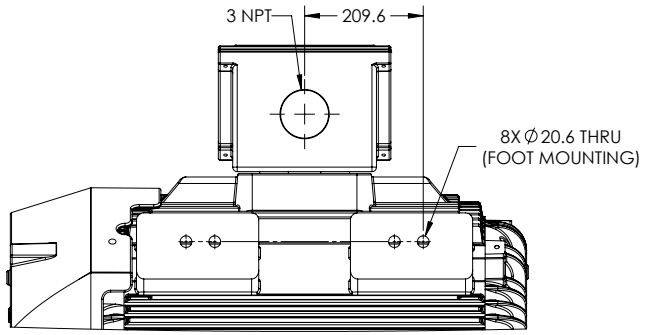
MOUNTING: FOOT, F-1 SIDE

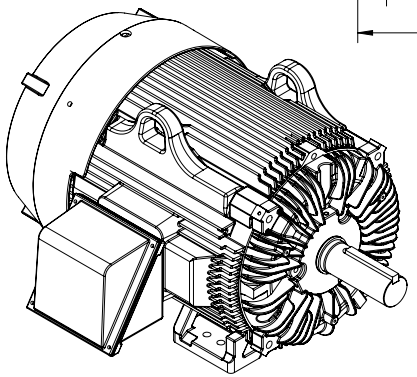
G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED









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 .076 T.I.R.

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

617427-507

REV. DESC: ADD ADDITIONAL FOOT MOUNTING DIMS TO THE DS			
REV: C	VERSION: 03	REVISED: 07:57:50 01/13/2023	TDR: 000001202430
MODEL NO. 617427-507			REF: -
BY: USJEDIL	Material: –		C

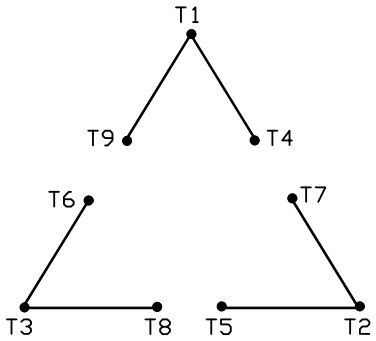
BALDOR

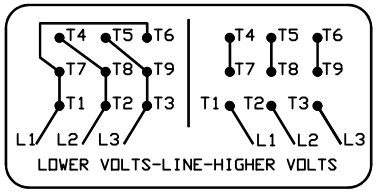
G445/444T TEFC F1 FOOT CAST IRON BOX

617427-507

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED





(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002