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**				

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%

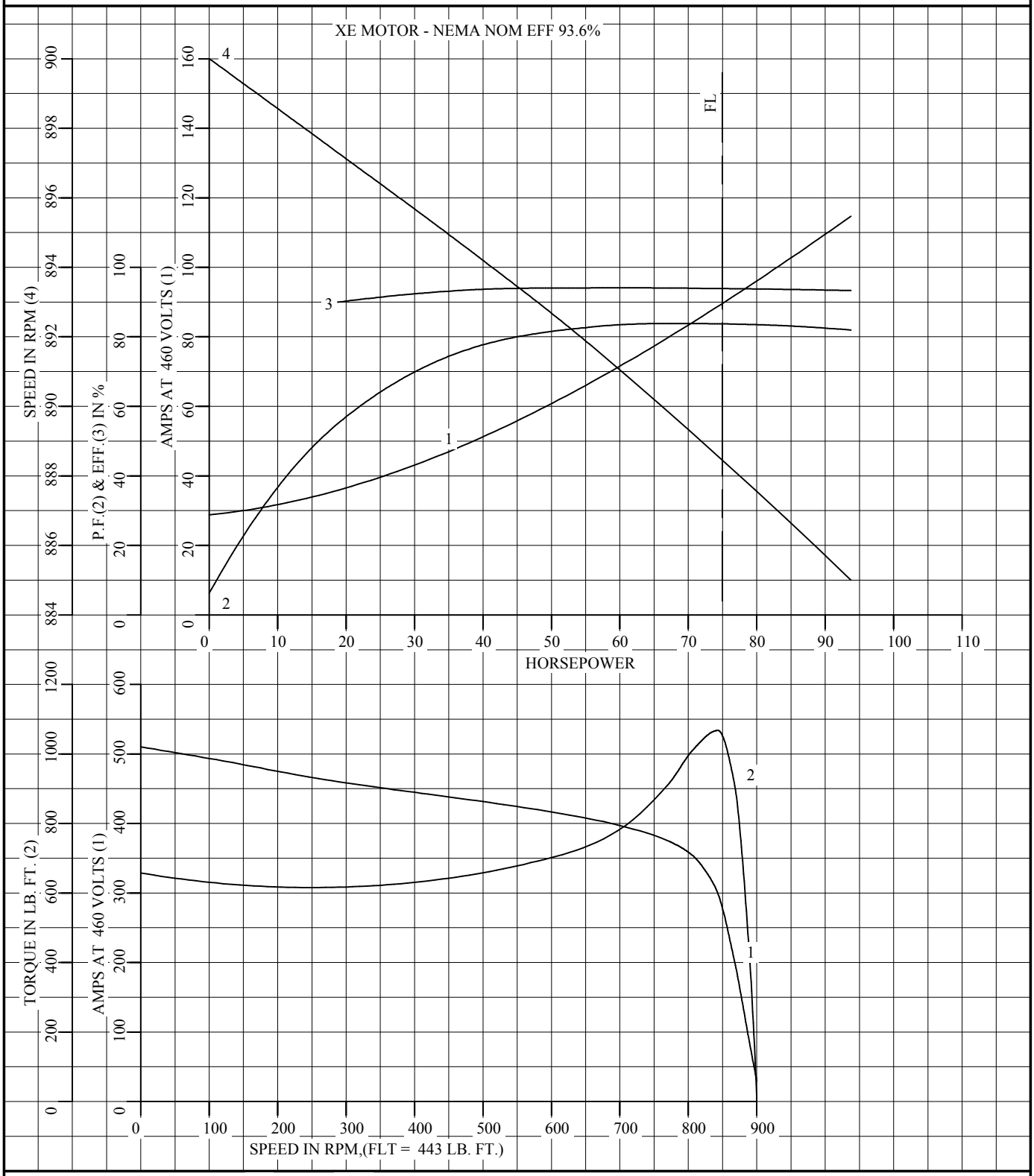
BALDOR
A MEMBER OF THE ABB GROUP

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)



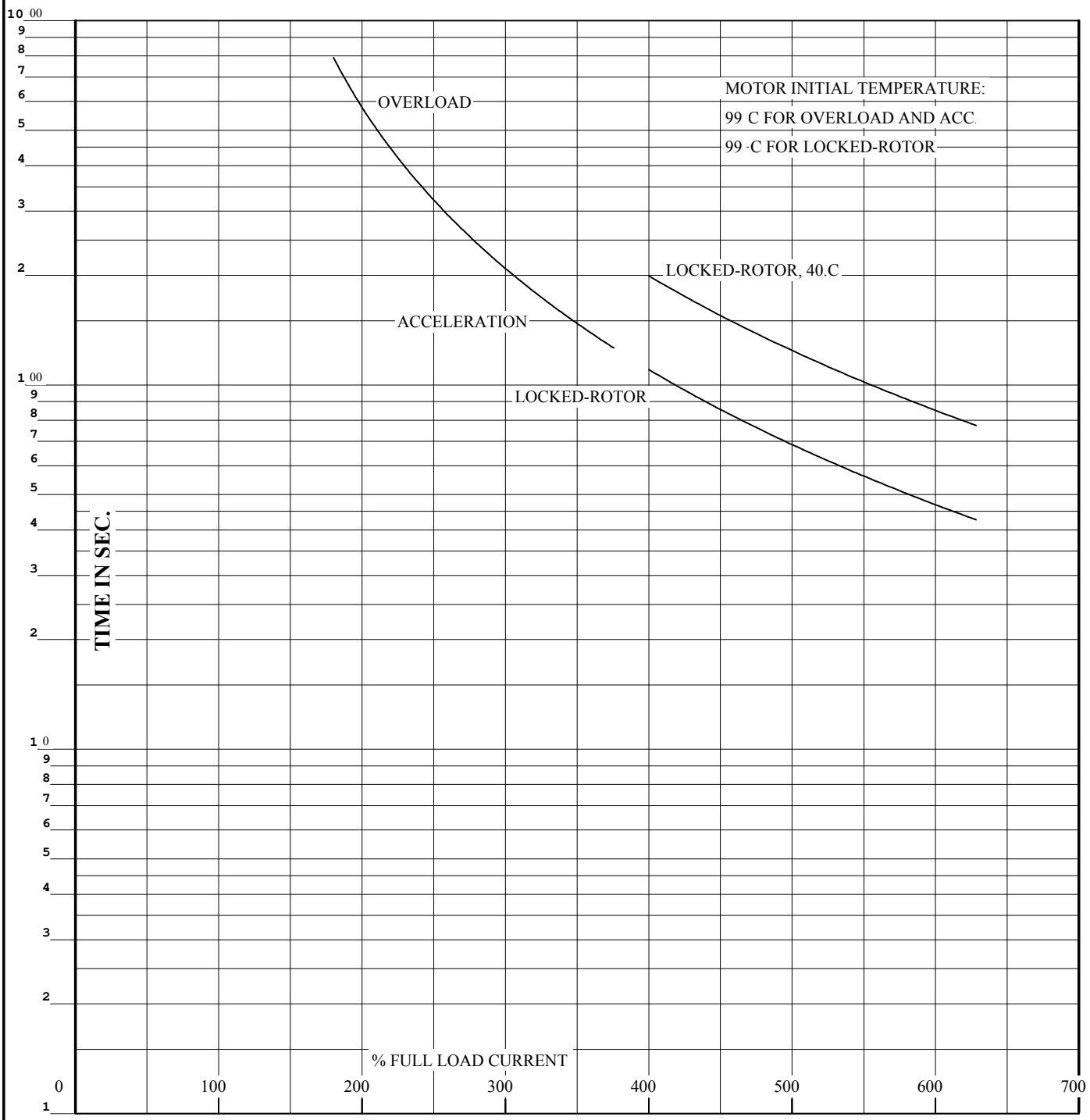
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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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 °C	.0181/.0724
PHASE/HERTZ	3/60	AMB °C/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.

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DATE	10/26/17

A-C MOTOR PERFORMANCE CURVES

A44WG4750-R002

ISSUE DATE 08/25/20

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-507

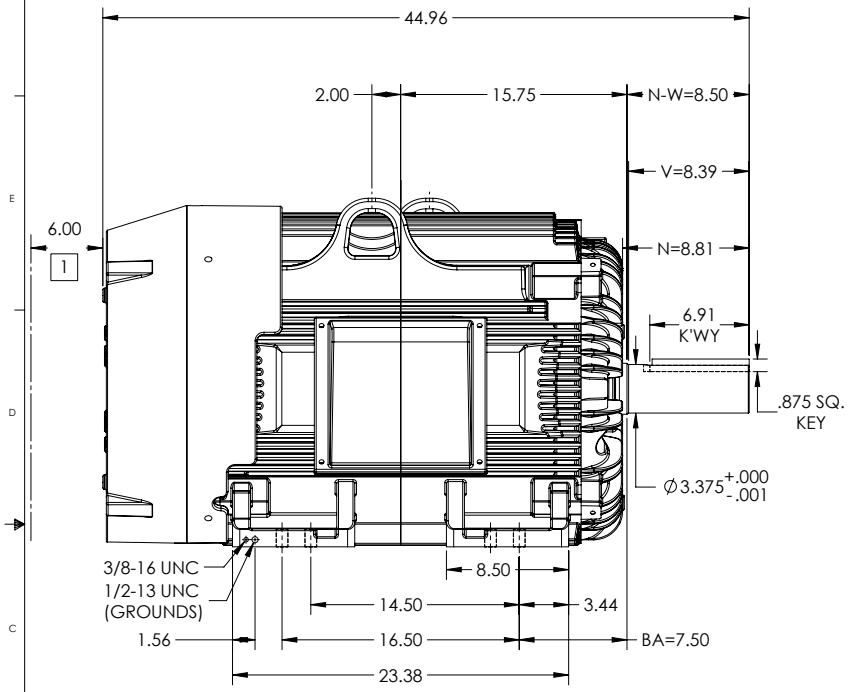
ENCLOSURE: TOTALLY ENCLOSED

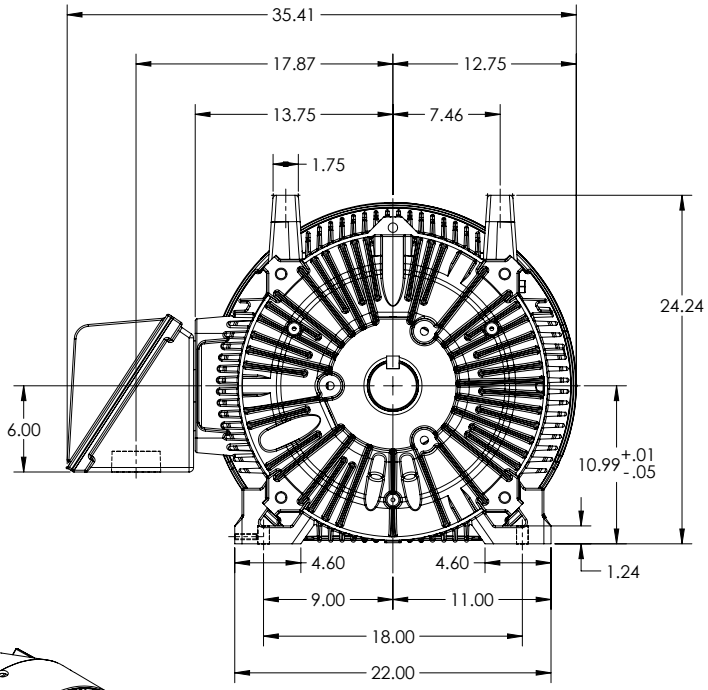
SQUIRREL-CAGE INDUCTION

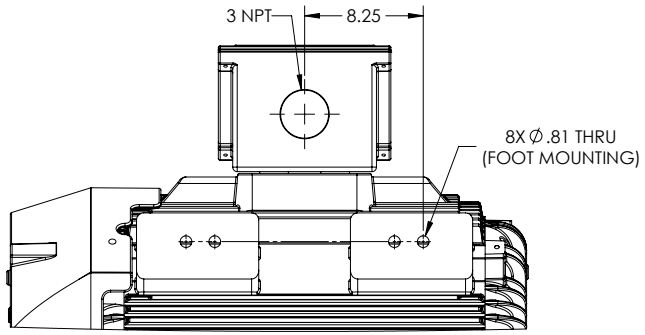
MOUNTING: FOOT, F-1 SIDE

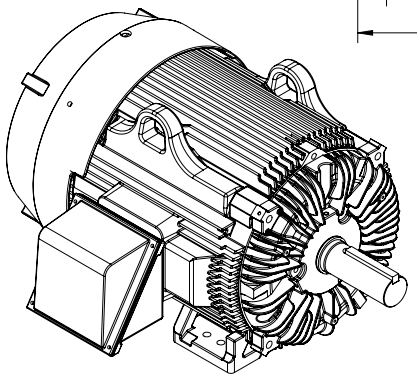
G444T/G445T FRAME MOUNTING HOLES

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

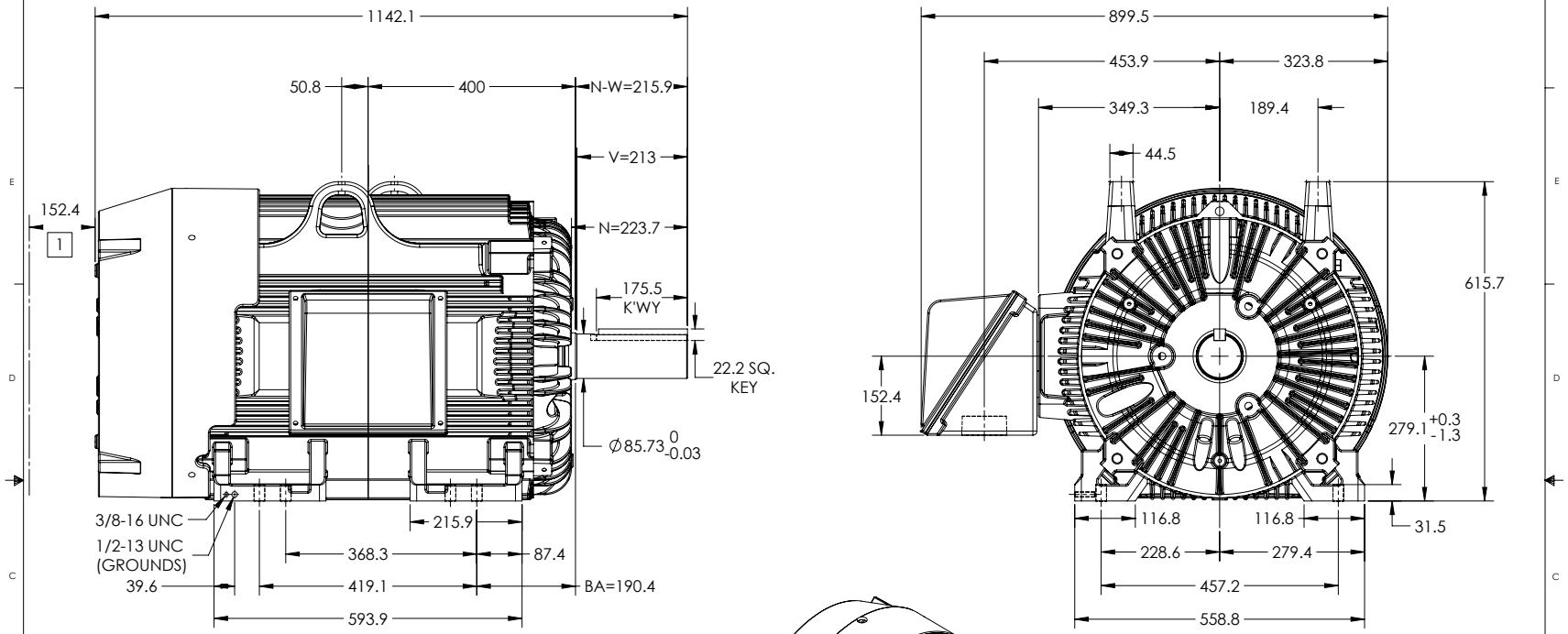
ENCLOSURE: TOTALLY ENCLOSED

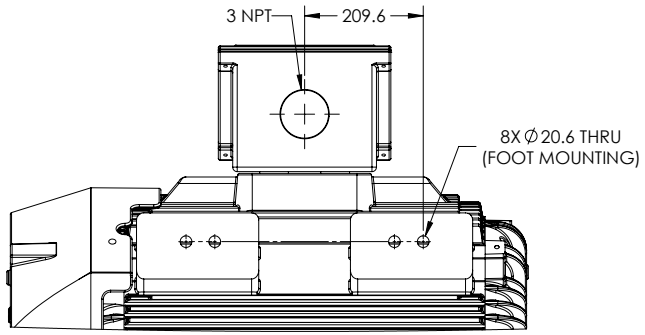
SQUIRREL-CAGE INDUCTION

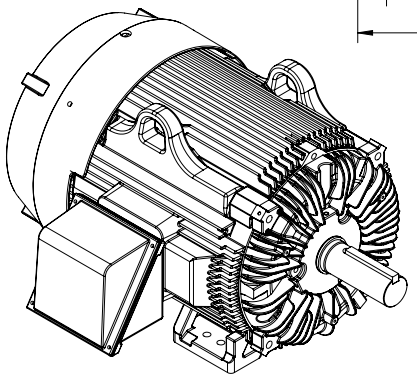
MOUNTING: FOOT, F-1 SIDE

G444T/G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED







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

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.

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

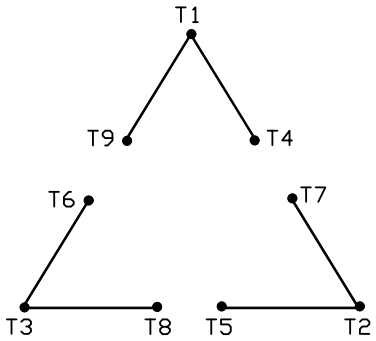
BALDOR

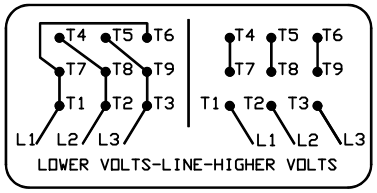
G445/444T TEFC F1 FOOT CAST IRON BOX

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