

ABB BALDOR RELIANCE III

Customer information packet

EWDM4419T

75HP, 890RPM, 3PH, 60HZ, 444T, TEFC, F1

Class - None

Division - Not Applicable

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%						
		DR. BY	C.E. JAMISON	A-C MOTOR PERFORMANCE DATA		
		CK. BY	W.L. SMITH			
		APP. BY	C.E. JAMISON			
		DATE	10/26/17			
			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**

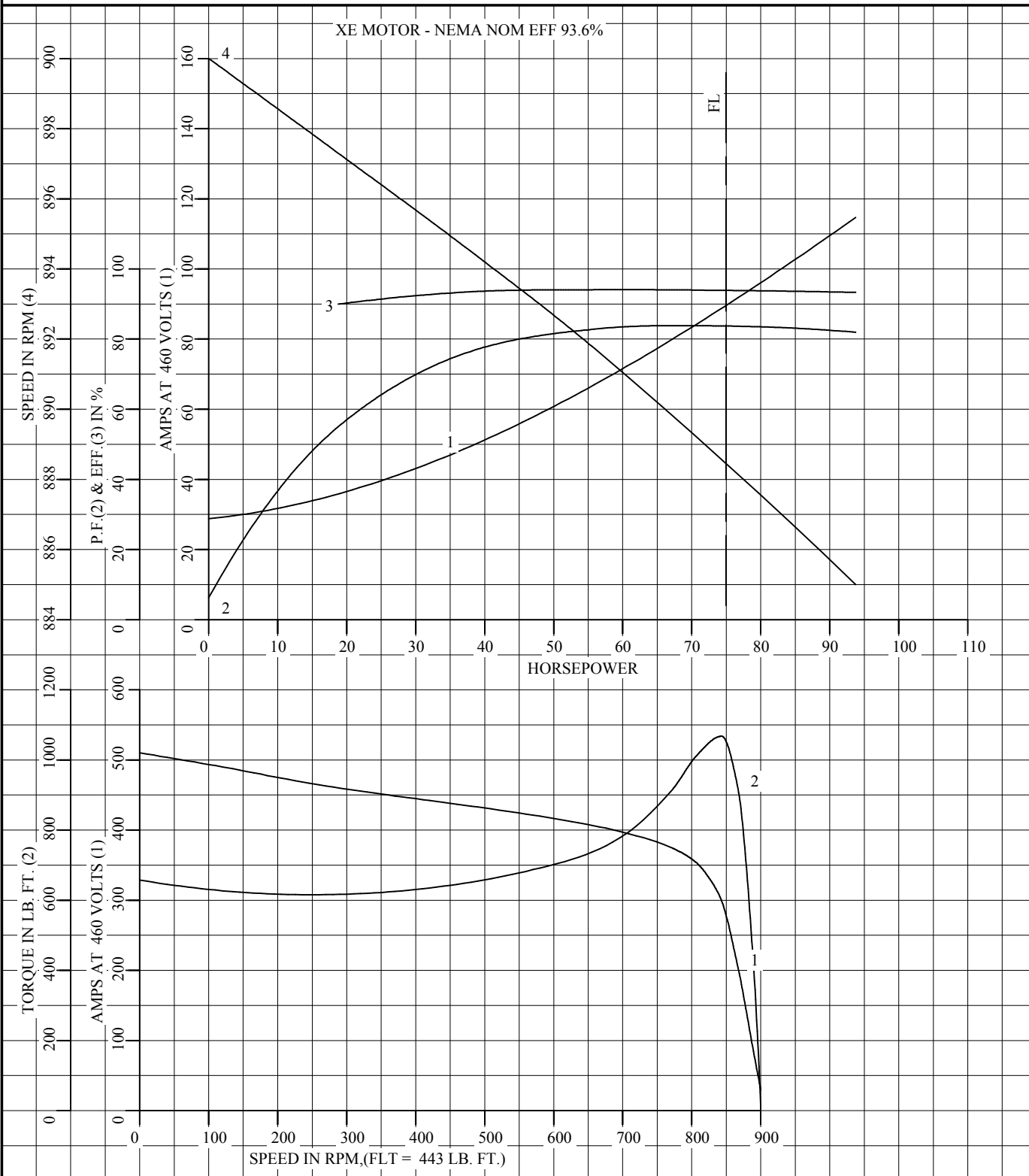
 STATOR RES. @ 25 °C **.0181/.0724**

 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

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REL. S.O.

 RPM **890**

 S.F. **1.15**

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 HP **75**

 AMPS **179/89.3**

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 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

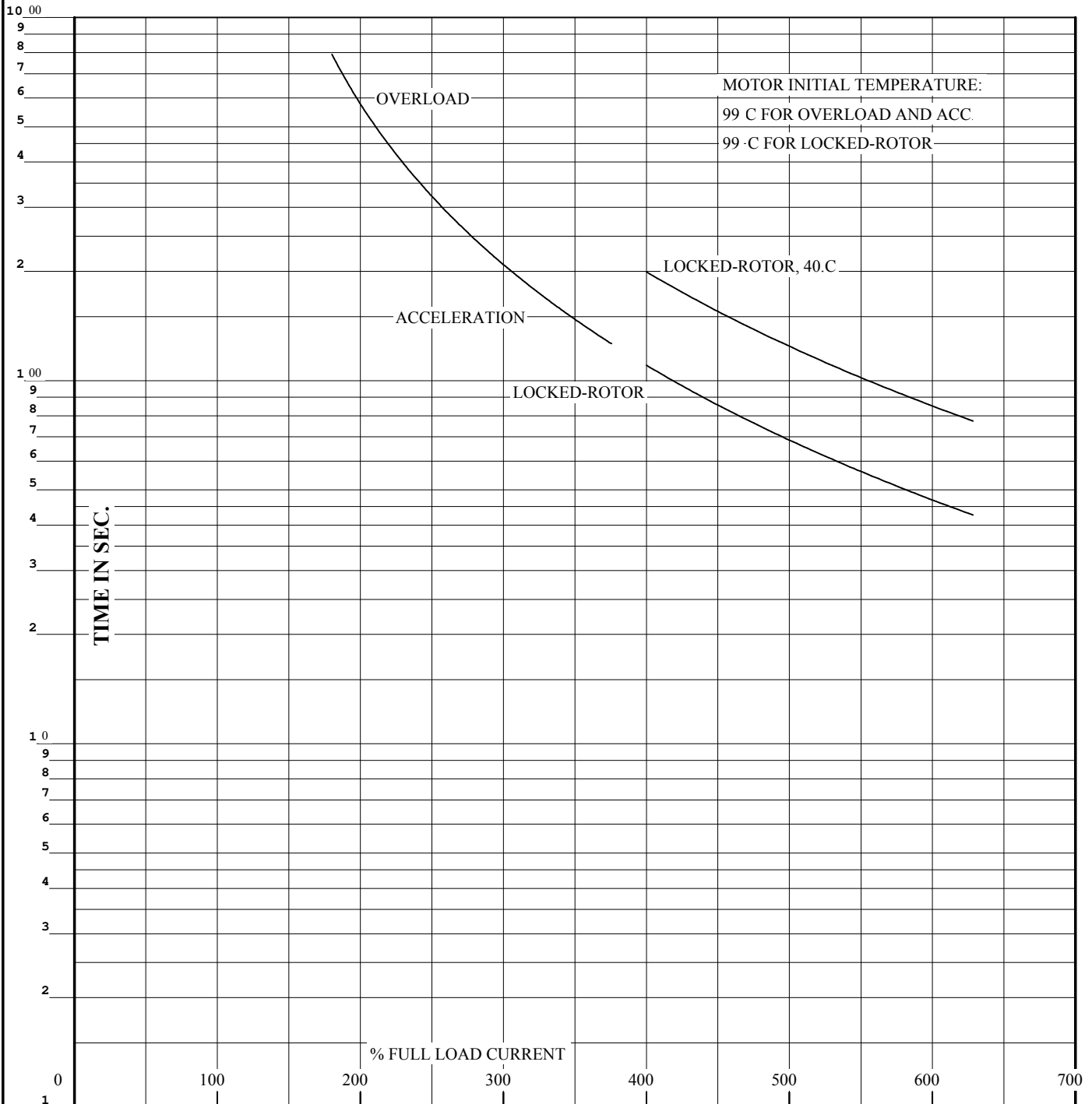
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 PHASE/HERTZ **3/60**

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 E/S **497436**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

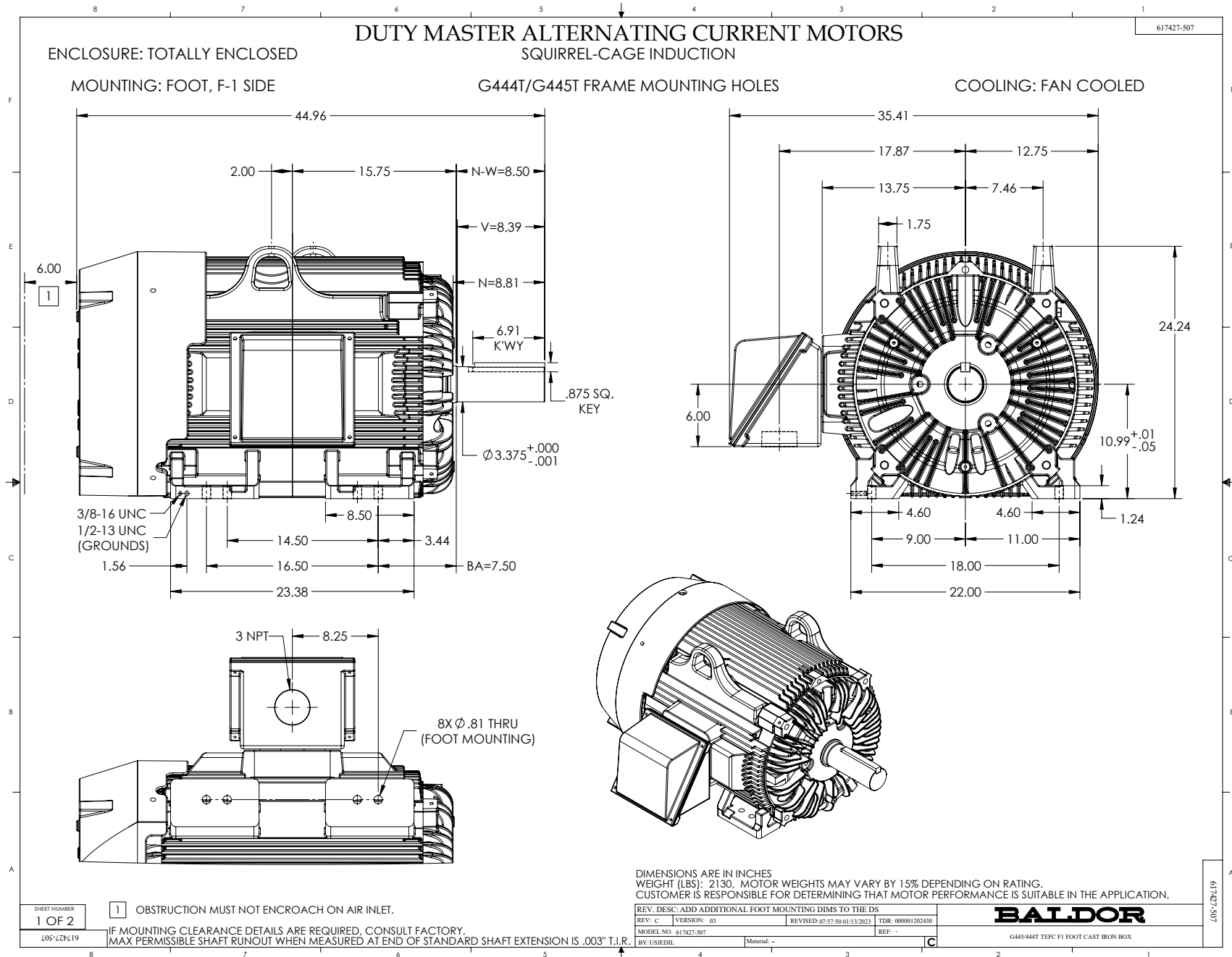
XE MOTOR - NEMA NOM EFF 93.6%

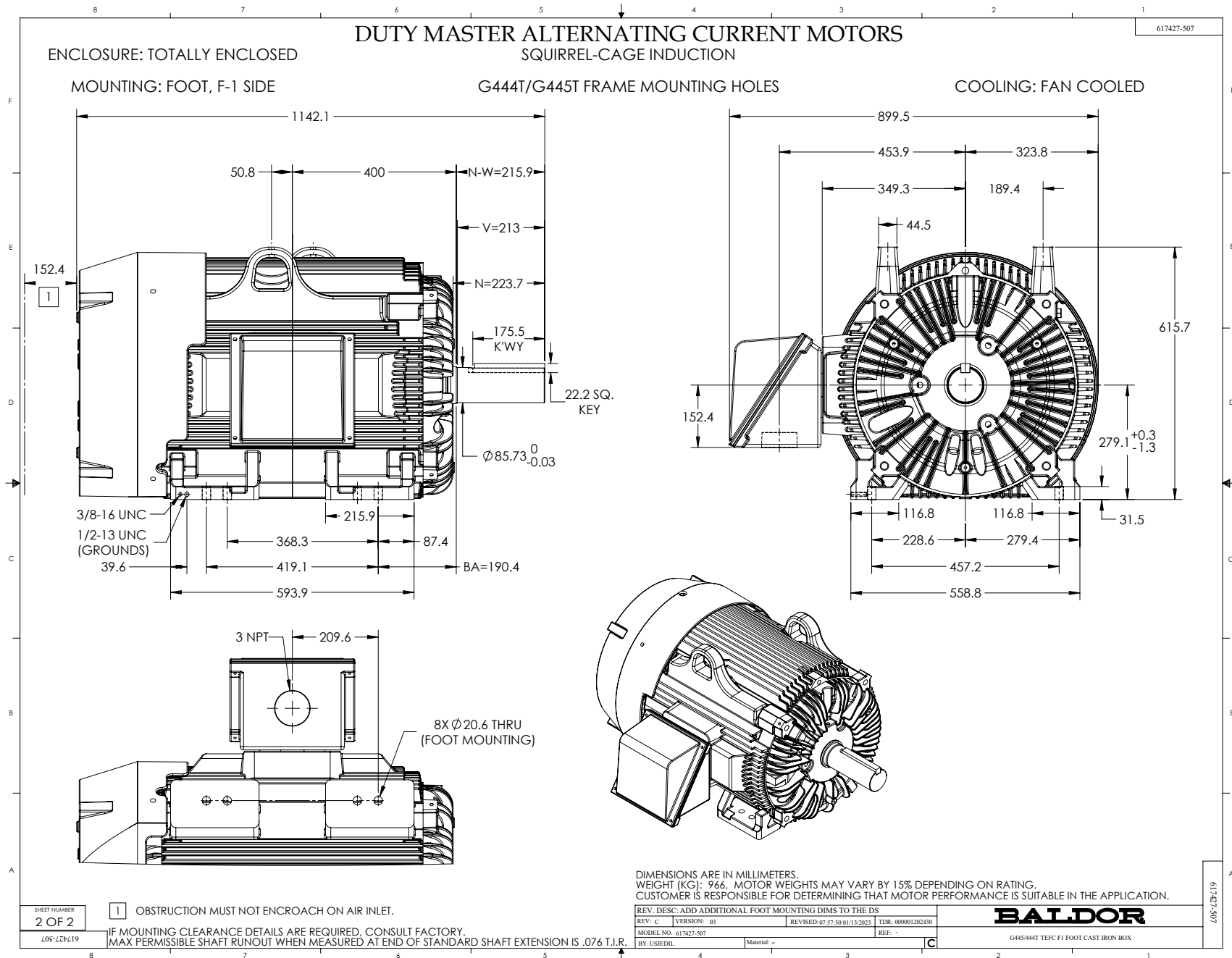
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PERFORMANCE
CURVES**
A44WG4750-R002

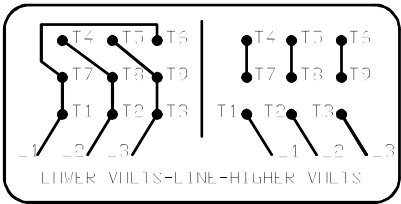
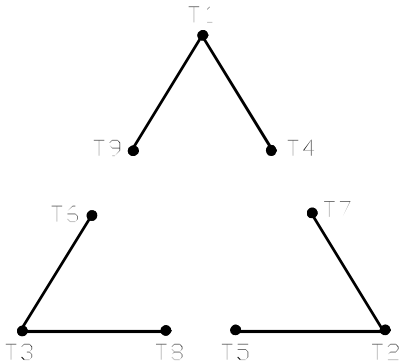
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416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002