

ABB BALDOR RELIANCE III

Customer information packet

EWDM4310T

60HP, 3560RPM, 3PH, 60HZ, 364TS, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364TS
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	66.100 A @ 460.0 V 132.000 A @ 230.0 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	66.1 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1558
Layout	617428-298
Eff. date	10-01-2021
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	08-30-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.35 IN
Power Factor	91
Product Family	Washdown Features
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3560 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.	A36-7818-1558			CAT.NO.	EWDM4310T					FRAME	364TS	
HP	60	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	3560	AMPS	132/66.1		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03JGG30A		DUTY	CONT	INSUL.CLASS		F					
OPP D.E. BEARING	65BC03JGG30A		ENCL	TEFC	CODE	G						
SER.NO.			POWER FACTOR		91	NEMA-NOM-EFFICIENCY				93.6		
						MAX CORR KVAR		5	GUARANTEED EFFICIENCY		92.4	
	IP55					NEMA NOM/CSA QUOTED EFF						
	10:1CT AND 10:1VT ON VPWM INVE					RTER, 1.00SF			MOTOR WEIGHT		901	

Parts List

Part number	Description	Quantity
SA373584	SA A36-7818-1558	1.000 ea
RA363391	RA A36-7818-1558	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	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2428L	WASHDOWN DUTY MOTOR, SS, CC, CSA-C	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415072001B	CLAMP	1.000 ea
078559075	FAN CVR E360 TEFC W/ NO LUBE ENTRY	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
412118006A	DRAIN	1.000 ea
702676001C	FAN 360	1.000 ea
004824015A	GREASE POLYREX EM	1.000 lb
032018012DN	HHCS 1/2-131-1/2 304S.S.	4.000 ea
032018008AN	HHCS 1/4-20X1 304 S.S.	4.000 ea
032018024CN	HHCS 3/8-16X3 304 S.S.	3.000 ea
415045002E	SLGR	1.000 ea
410700004F	WSHR	1.000 ea
423709011C	WASHER	3.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
085922083BG	BRKT 360 085922072WCC	1.000 ea
032018012DN	HHCS 1/2-131-1/2 304S.S.	4.000 ea
032018024CN	HHCS 3/8-16X3 304 S.S.	3.000 ea
415045002E	SLGR	1.000 ea
415028001AL	SEAL	1.000 ea
412118006A	DRAIN	1.000 ea

423709011C	WASHER	3.000 ea
076708141	CAST IRON 3" LEAD OUTLET	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
067053000B	GASK 320-400	1.000 ea
032018006AN	HHCS1/4-20X3/4304S.S.-360	4.000 ea
032018010CN	HHCS 3/8-16X1-1/4 304S.	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
034000014AF	WSHR 3/8 304 S.S.	4.000 ea
004824003AJF	WILKO781.01 WHITE2 COATS - MG1025W01	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180016GA	KEY 1/2X1/2X2 L	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364TS	60	P	3/60	3560	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
132/66.1	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491281	418141005XE	---	---	.0254/.101		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	14.0	3600	13.0	0	
1/4	15.0	21.3	3590	74.9	87.8	
2/4	30.0	34.5	3580	88.3	92.4	
3/4	45.0	49.7	3569	90.8	93.5	
4/4	60.0	66.1	3558	90.8	93.6	
5/4	75.0	83.0	3546	90.7	93.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	203	180	435	
PULL UP		1565	175	155	355	
BREAKDOWN		3397	231	205	212	
FULL LOAD		3558	100	88.6	66.1	
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 % GUARANTEED MIN. EFF. 92.4%						
		DR. BY W. L. SMITH		A-C MOTOR PERFORMANCE DATA A36WG1558-R007 ISSUE DATE 08/30/19		
		CK. BY G. R. WEBB				
		APP. BY E. J. CHRISTIAN				
		DATE 03/11/02				
					Page 2 of 1	

REL S.O.

 RPM **3560**

 S.F. **1.15**

 ROTOR **418141005XE**

 FRAME **364TS**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **60**

 AMPS **132/66.1**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

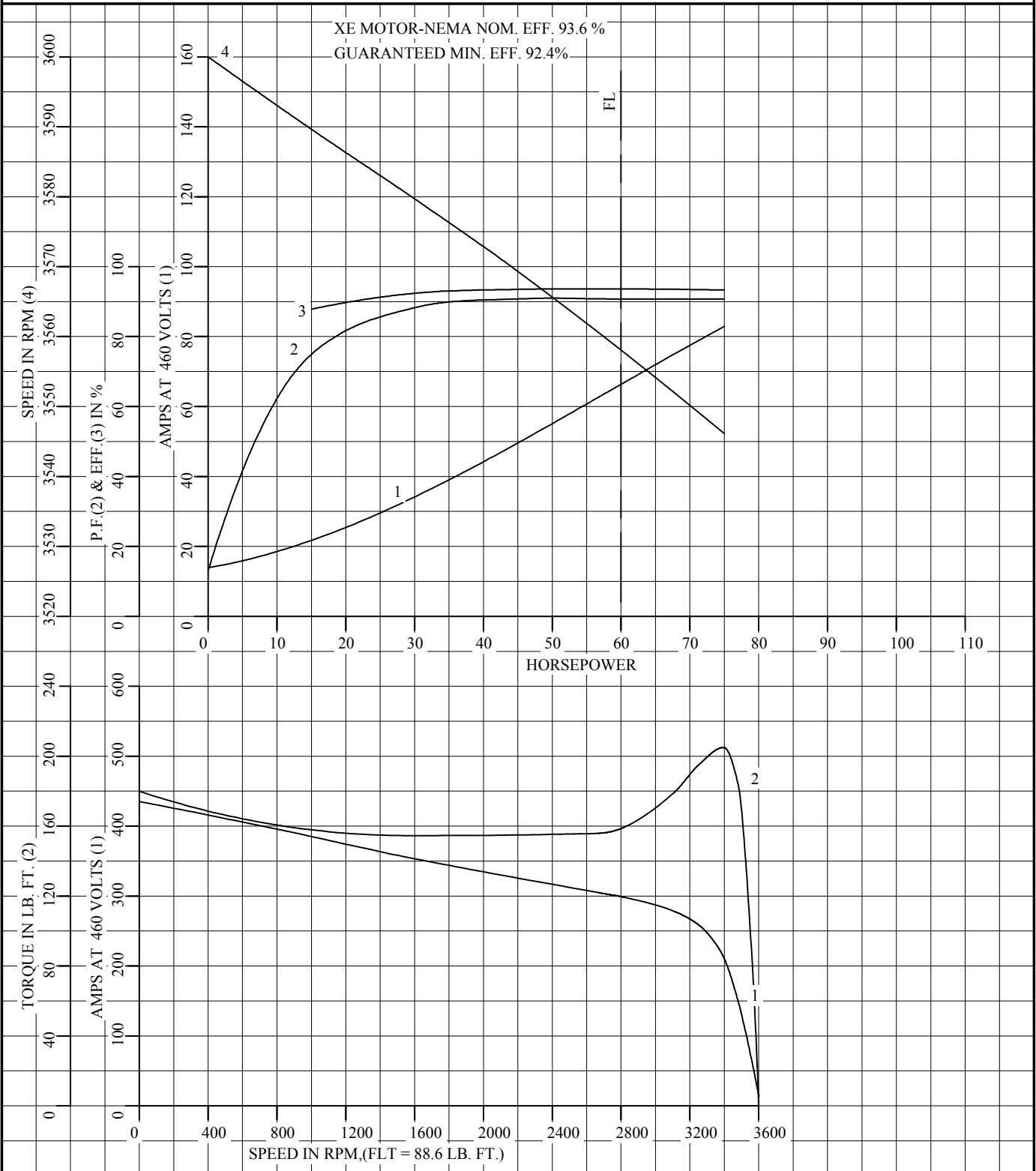
 STATOR RES. @ 25 °C **.0254/.101**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **491281**

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 W. L. SMITH
 CK. BY G. R. WEBB
 APP. BY E. J. CHRISTIAN
 DATE 03/11/02

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG1558-R007

ISSUE DATE **08/30/19**

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REL. S.O.

 FRAME **364TS**

 HP **60**

 TYPE **P**

 PHASE/HERTZ **3/60**

 RPM **3560**

 VOLTS **230/460**

 AMPS **132/66.1**

 DUTY **CONT**

 AMB °C/INSUL **40/F**

 S.F. **1.15**

 NEMA DESIGN **B**

 CODE LETTER **G**

 ENCLOSURE **TEFC**

 E/S **491281**

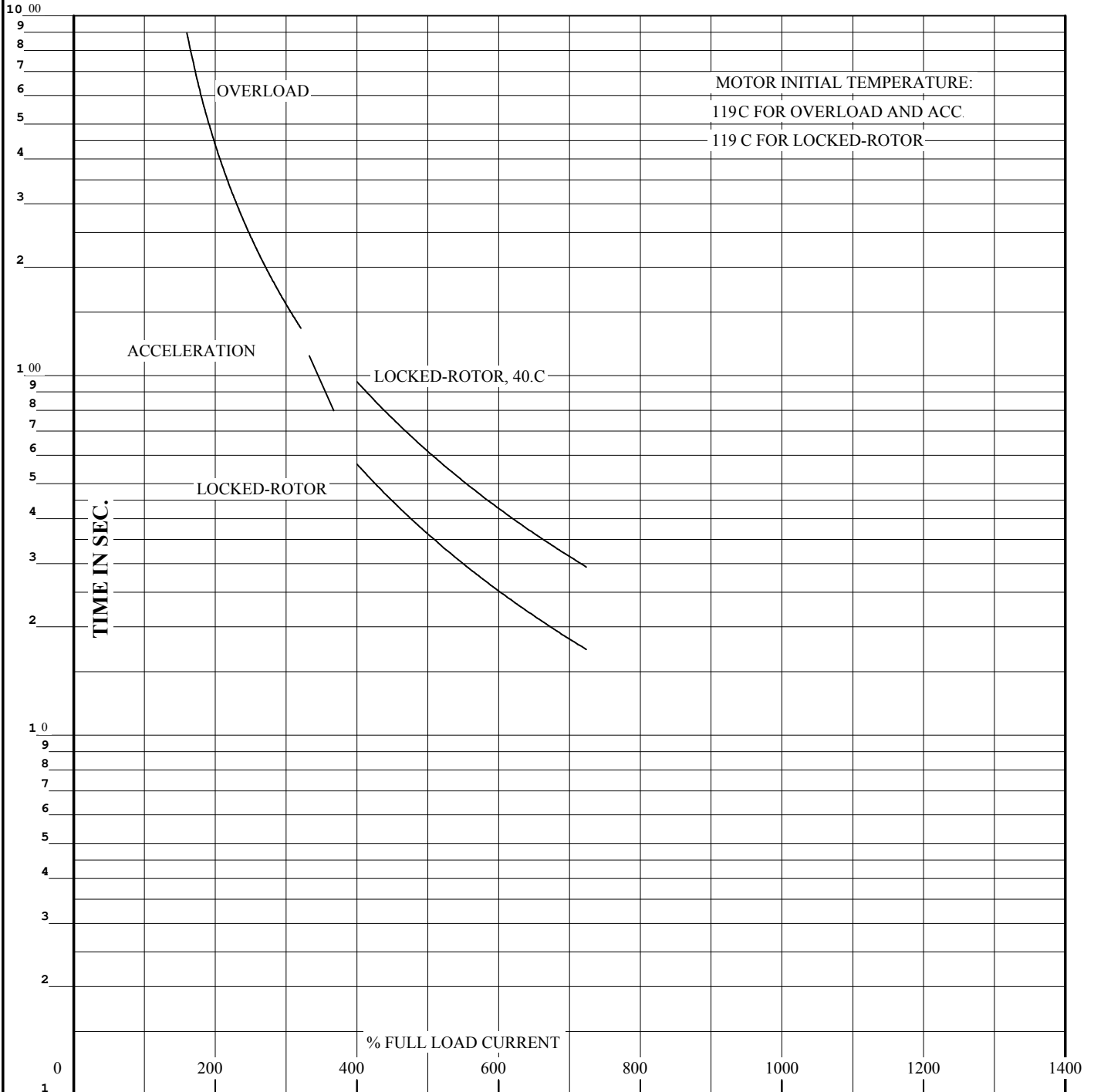
 ROTOR **418141005XE**

 TEST S.O. **TYPICAL DATA**

 TEST DATE **---**

 STATOR RES. @ 25 °C **.0254/.101**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 93.6 %

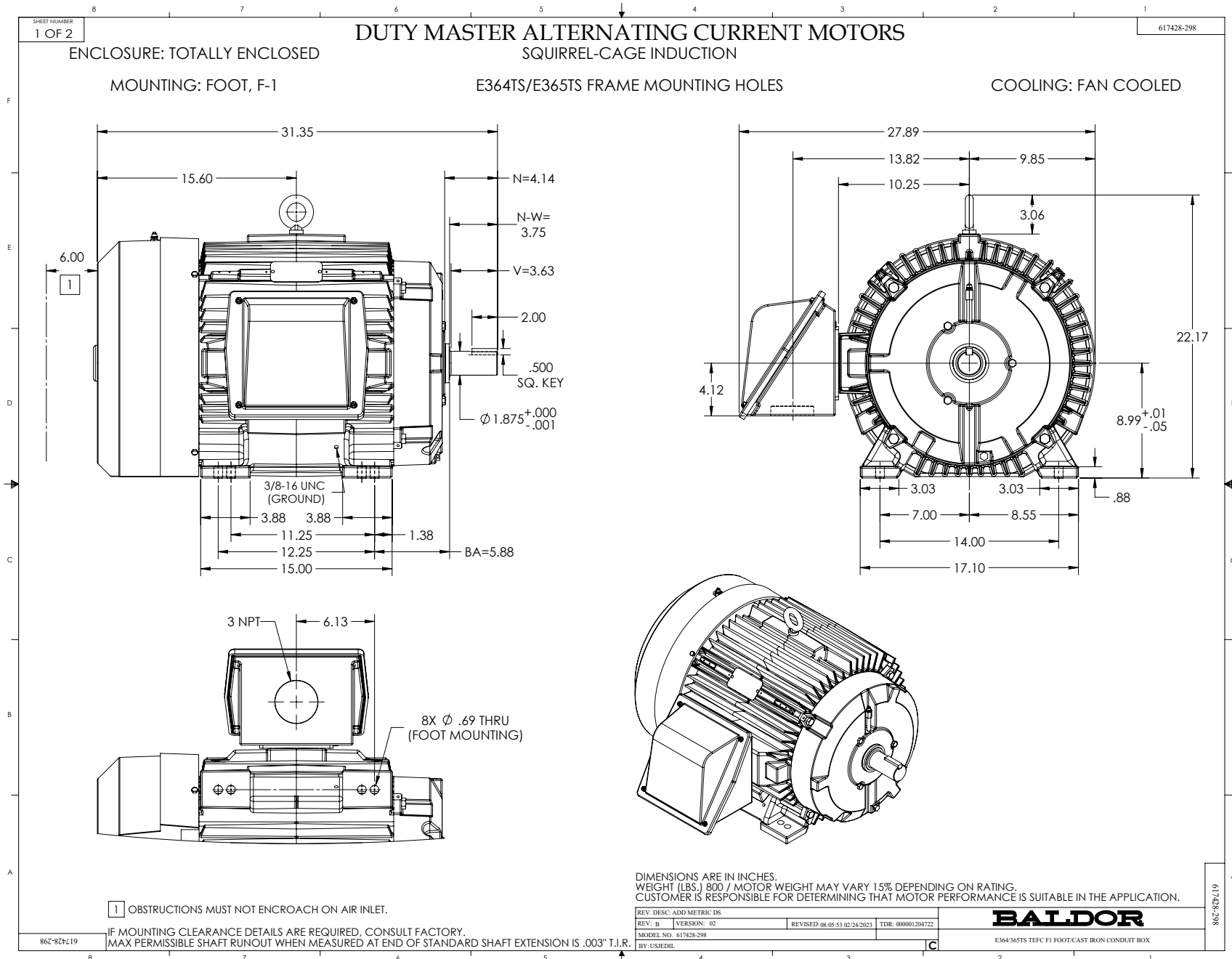
GUARANTEED MIN. EFF. 92.4%

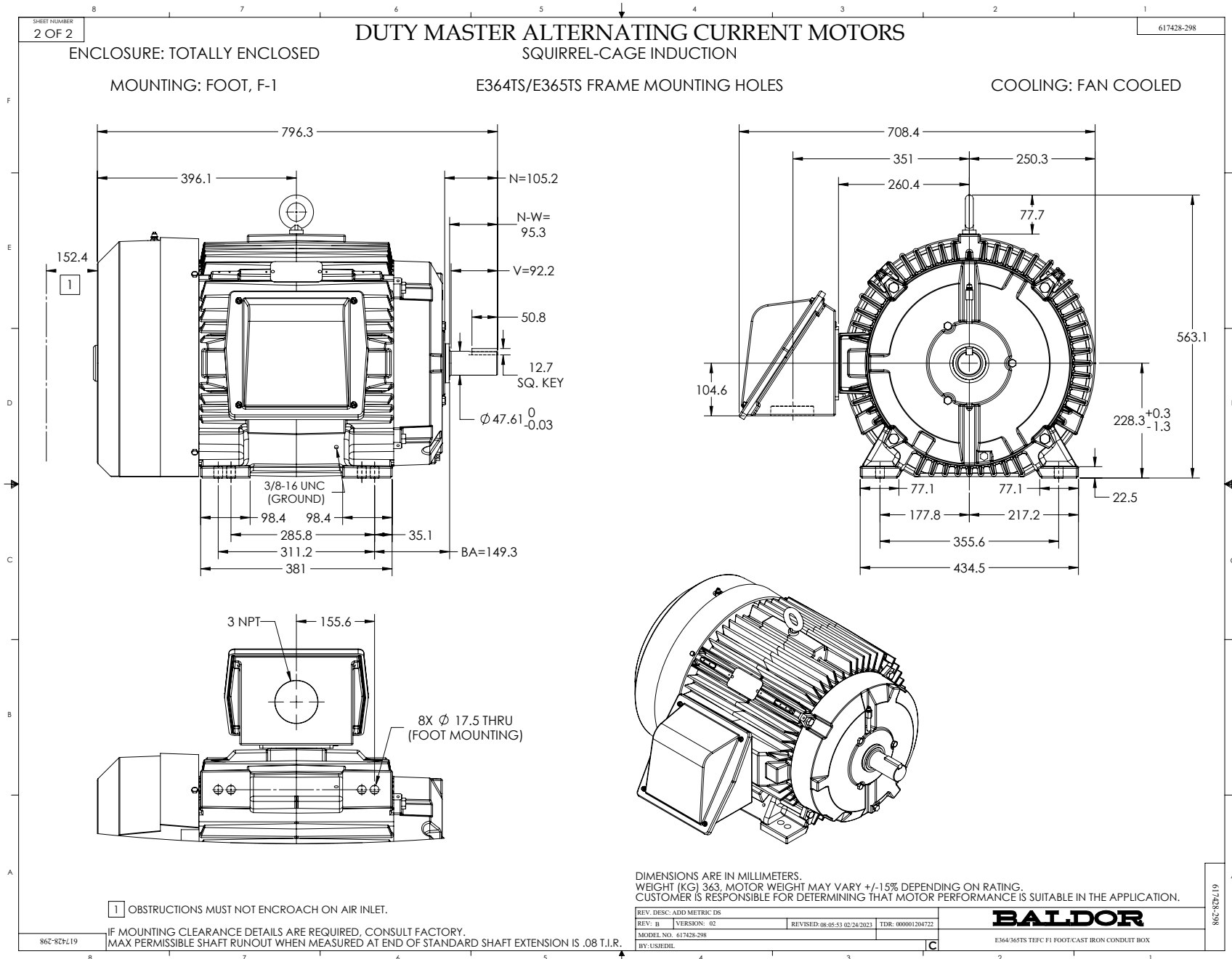
 AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
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 DR. BY W. L. SMITH
 CK. BY G. R. WEBB
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**A-C MOTOR
PERFORMANCE
CURVES**
A36WG1558-R007

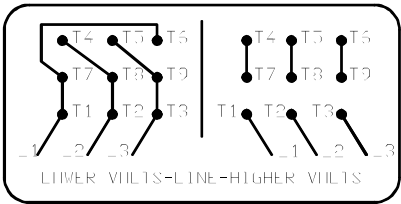
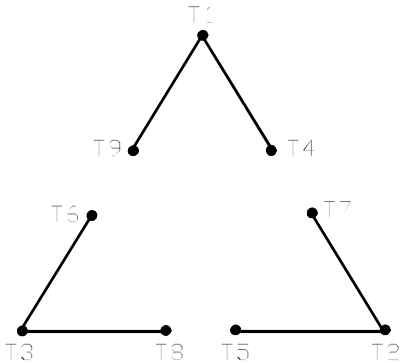
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416820-002

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
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BALDOR - RELIANCE®

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

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