

ABB BALDOR RELIANCE III

Customer information packet

EWDM4313T

75HP, 3555RPM, 3PH, 60HZ, 365TS, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365TS
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	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	80.700 A @ 460.0 V 161.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 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.	A36WG0319
Layout	617428-298
Eff. date	10-01-2021
CD Diagram	416820-002
Poles	02
Leads	3#2,6#4
Proprietary	False
Created date	08-30-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.35 IN
Power Factor	92
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	3555 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.	A36-7830-0319			CAT.NO.	EWDM4313T					FRAME	365TS	
HP	75	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	3555	AMPS	161/80.7		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	92	NEMA-NOM-EFFICIENCY					94.5	
						MAX CORR KVAR	5	GUARANTEED EFFICIENCY			93.6	
	IP55					NEMA NOM/CSA QUOTED EFF						
	4:1CT AND 4:1VT ON VPWM INVERT					ER, 1.00SF			MOTOR WEIGHT			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TC	75	P	3/60	3555	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
161/80.7	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892019	418141005TE	---	---	.0186/.0744		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	15.5	3600	8.92	0	
1/4	18.8	24.5	3589	77.9	92.0	
2/4	37.5	40.8	3578	90.8	94.8	
3/4	56.2	60.0	3567	92.2	95.3	
4/4	75.0	80.7	3555	91.6	95.1	
5/4	93.8	102	3542	90.9	94.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	218	242	536	
PULL UP		1565	190	210	440	
BREAKDOWN		3395	230	255	259	
FULL LOAD		3555	100	111	80.7	
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. 94.5 % GUARANTEED MIN. EFF. 93.6%						
		DR. BY	J. J. HARRISON	A-C MOTOR PERFORMANCE DATA		
		CK. BY	G. R. WEBB			
		APP. BY	W. L. SMITH			
		DATE	10/16/02			
			A36WG0319-R001 ISSUE DATE 04/14/21			

REL S.O.

RPM 3555

S.F. 1.15

ROTOR 418141005TE

FRAME 365TC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 161/80.7

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

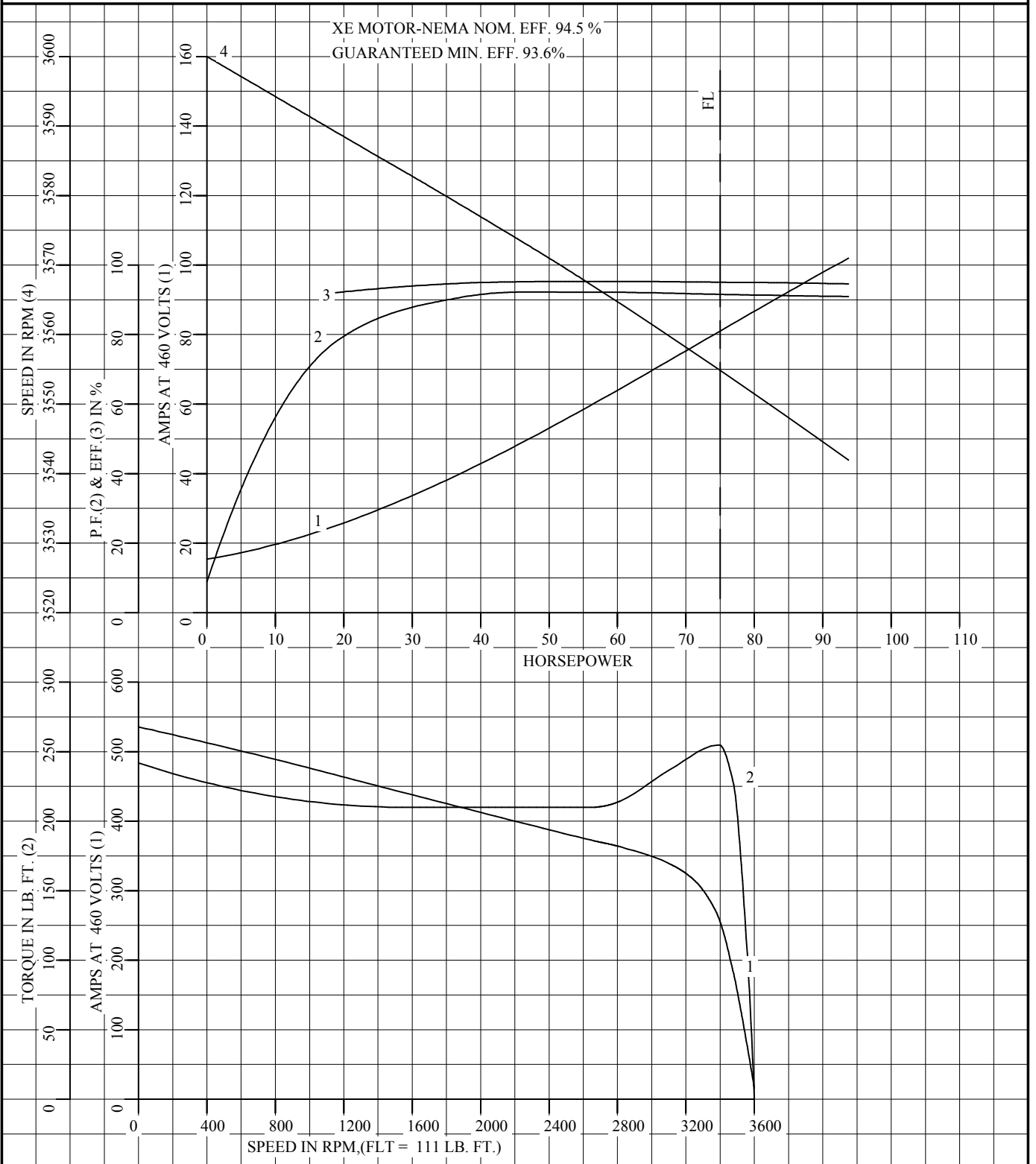
STATOR RES. @ 25 °C .0186/.0744

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892019

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 J.J.HARRISON
CK. BY G. R. WEBB
APP. BY W.L.SMITH
DATE 10/16/02

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0319-R001

ISSUE DATE 04/14/21

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REL. S.O.

FRAME 365TC

HP 75

TYPE P

PHASE/HERTZ 3/60

RPM 3555

VOLTS 230/460

AMPS 161/80.7

DUTY CONT

AMB °C/INSUL 40/F

S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 892019

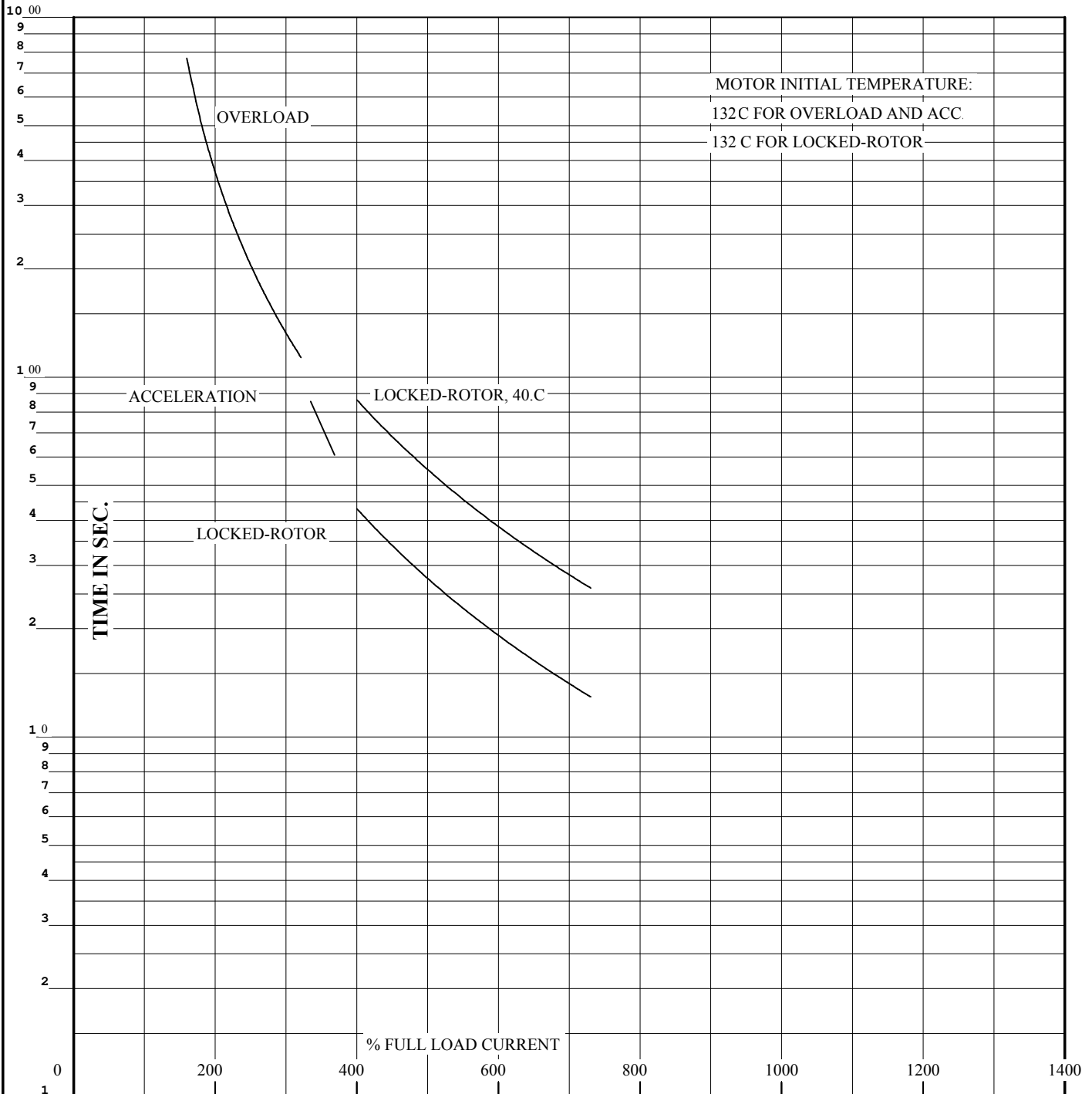
ROTOR 418141005TE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25 °C .0186/.0744

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 94.5 %

GUARANTEED MIN. EFF. 93.6%

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

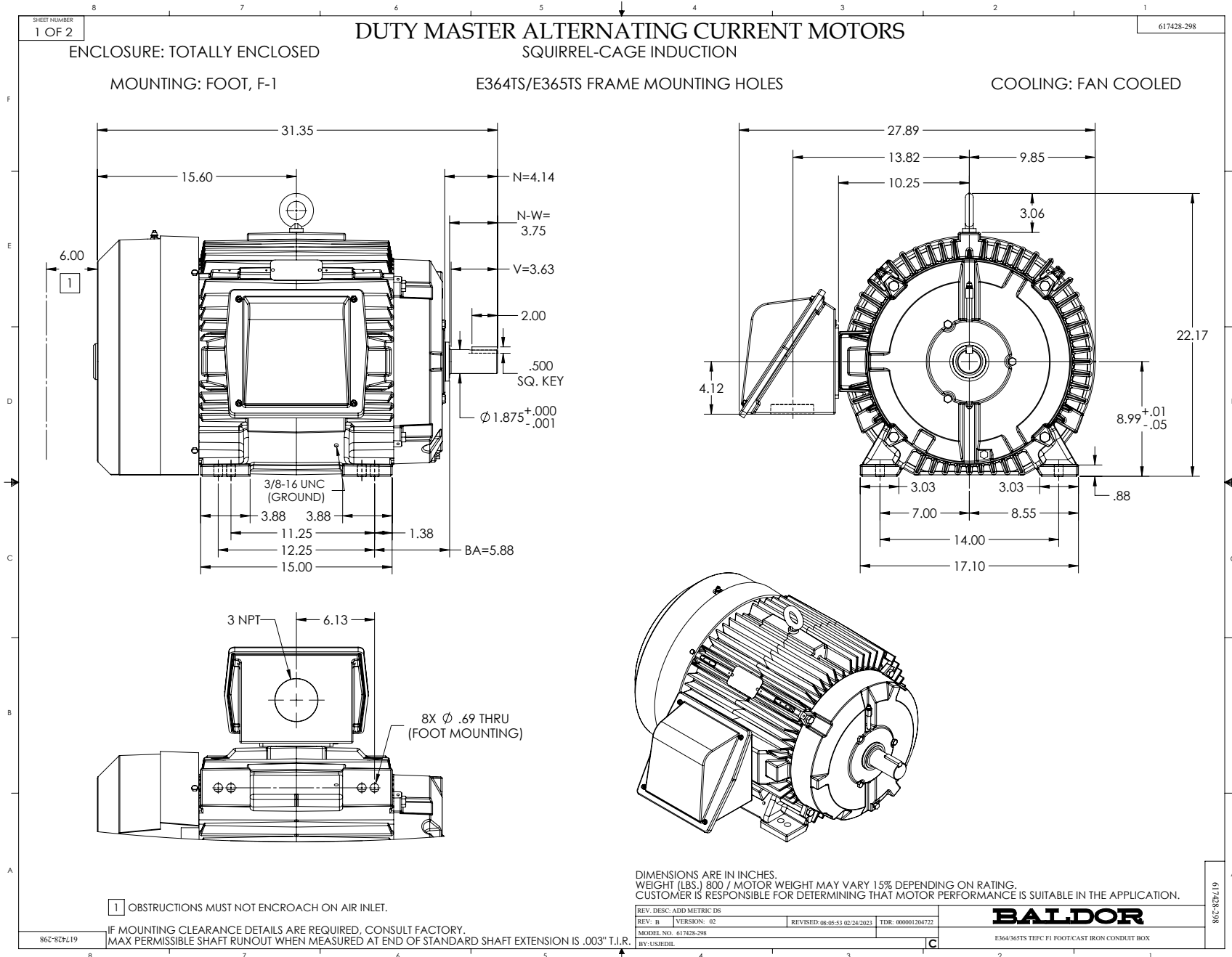
BALDOR
A MEMBER OF THE ABB GROUP

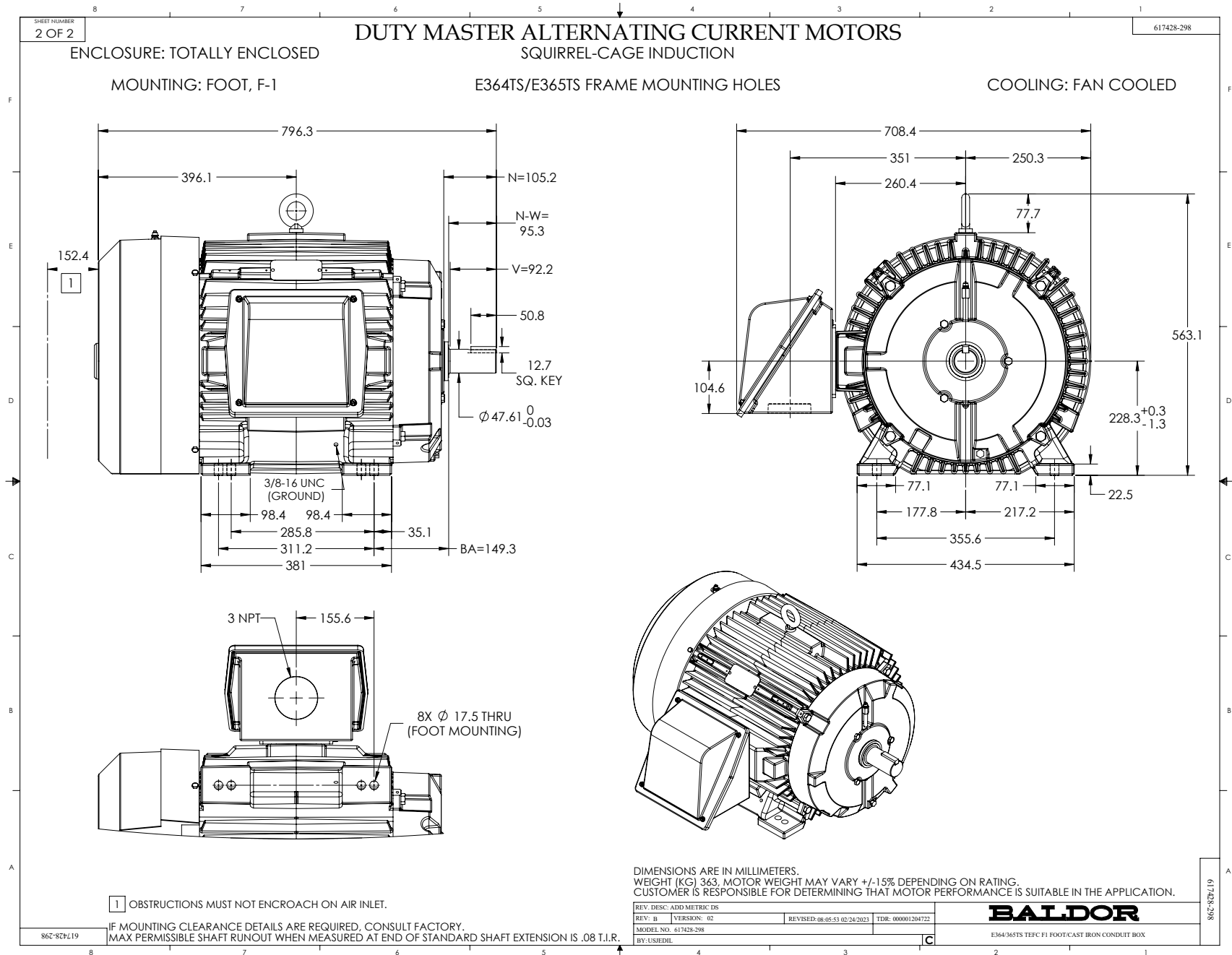
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**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0319-R001

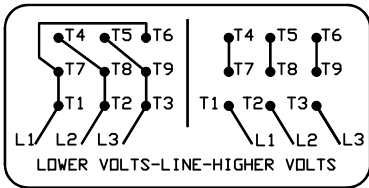
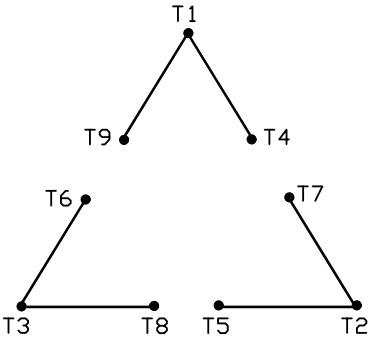
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416820-002

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



(N. P. 1575-B)

416820-002

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: -	© □	



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1