

ABB BALDOR RELIANCE III

Customer information packet

EM4310T

60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC

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	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	65.400 A @ 460.0 V 145.000 A @ 208.0 V 131.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	65.4 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	AA
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0224
Layout	617428-013
Eff. date	08-12-2024
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.36 IN
Power Factor	91
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	No Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP3979LUA

CAT #		EM4310T					SER				CC		010A						
SPEC		P36G3404					RATING		40C AMB-CONT										
HZ		VOLTS			AMPS		RPM		HP	CODE	-	SF	DES	PF	NEMA NOM. EFF				
60		230/460			131/65.4		3555		60	G		1.15	B	91	%	94.5			
		-													%				
PH	3	CL	F	MAX CORR KVAR		5.0													
BRG		DE	6313		ODE	6313		ENCL	TEFC		FR	364TS		54					
GREASE		POLYREX EM										MTR WT		855		LBS			
USABLE AT			50HZ 50HP 190/380V 132/66A										SF1.0						
INVERTER DUTY			CT	15-60	HZ	4:1	VT	3-60	HZ	20:1		CHP	60-75		HZ	1.25:1	1.0 SF VPWM		
MAX RPM		4500		SFA 151/75.5															

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							EM4310T - 60HP, 3560RPM, 3PH, 60HZ, B64TS, A36056M, TEFC						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			364			60			P			3/60			3555			230/460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
131/65.4			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			14.1			3600			7.60			0					
1/4			15.0			20.9			3589			73.2			92.1					
2/4			30.0			33.6			3579			88.4			94.7					
3/4			45.0			48.8			3567			90.8			95.0					
4/4			60.0			65.4			3555			90.7			94.6					
5/4			75.0			82.7			3542			90.4			94.0					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			205			182			431					
PULL UP						1565			178			157			352					
BREAKDOWN						3386			232			205			212					
FULL LOAD						3555			100			88.6			65.4					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 94.5 % GUARANTEED MIN. EFF. 93.6%																				
						DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>G. R. WEBB</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>03/11/02</u>						AC MOTOR PERFORMANCE DATA			A36WG0224-R004 DATE ISSUED 01/11/22					

FRAME 364

RPM 3555

S.F. 1.15

ROTOR 418141005XE

HP 60

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 131/65.4

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

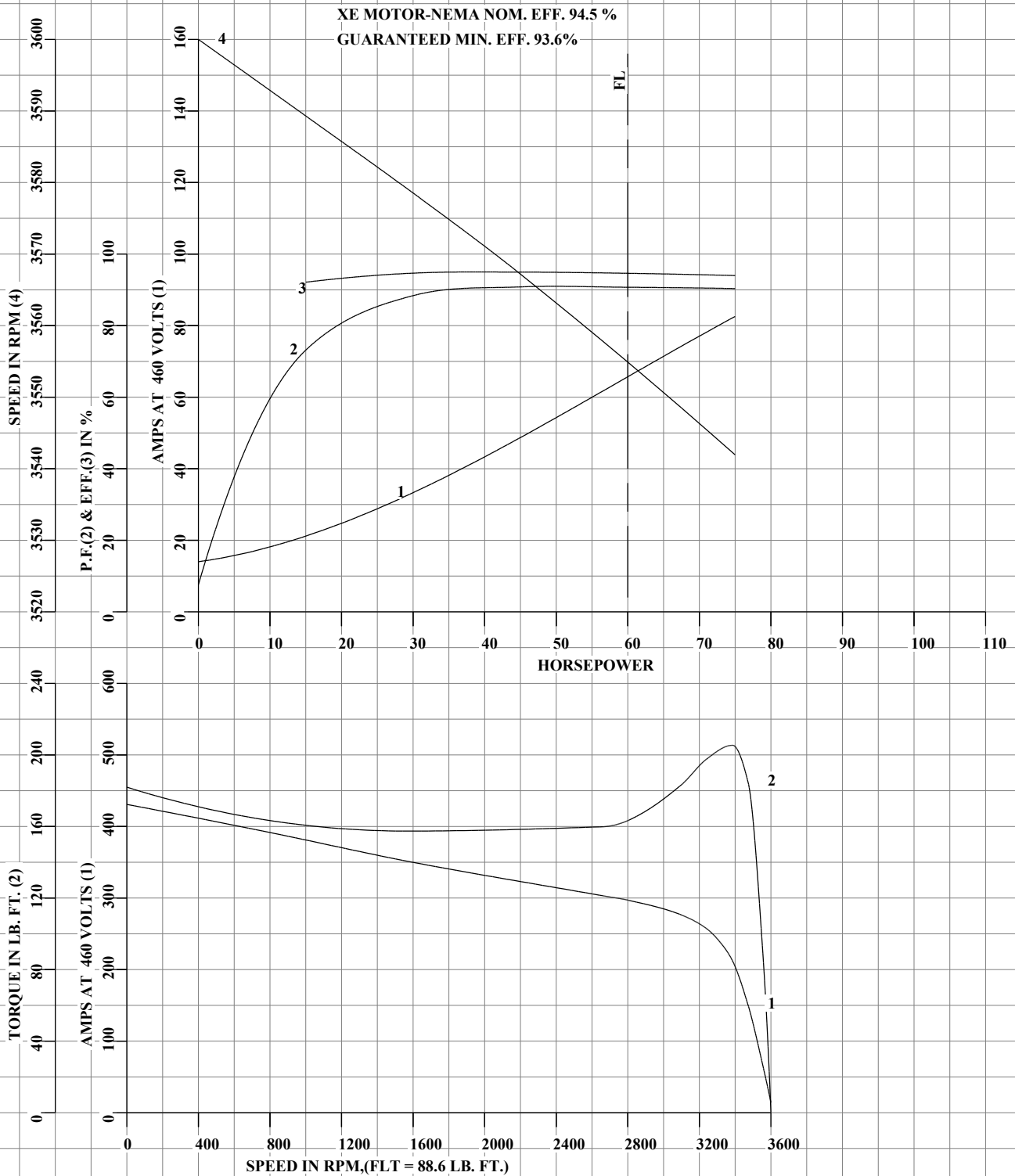
ENCLOSURE TEFC

STATOR RES. @ 25°C .0254/.101

AMB °C / INSUL 40/F

E/S 491281

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR
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HP 60

VOLTS 230/460

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PHASE / HERTZ 3/60

DUTY CONT

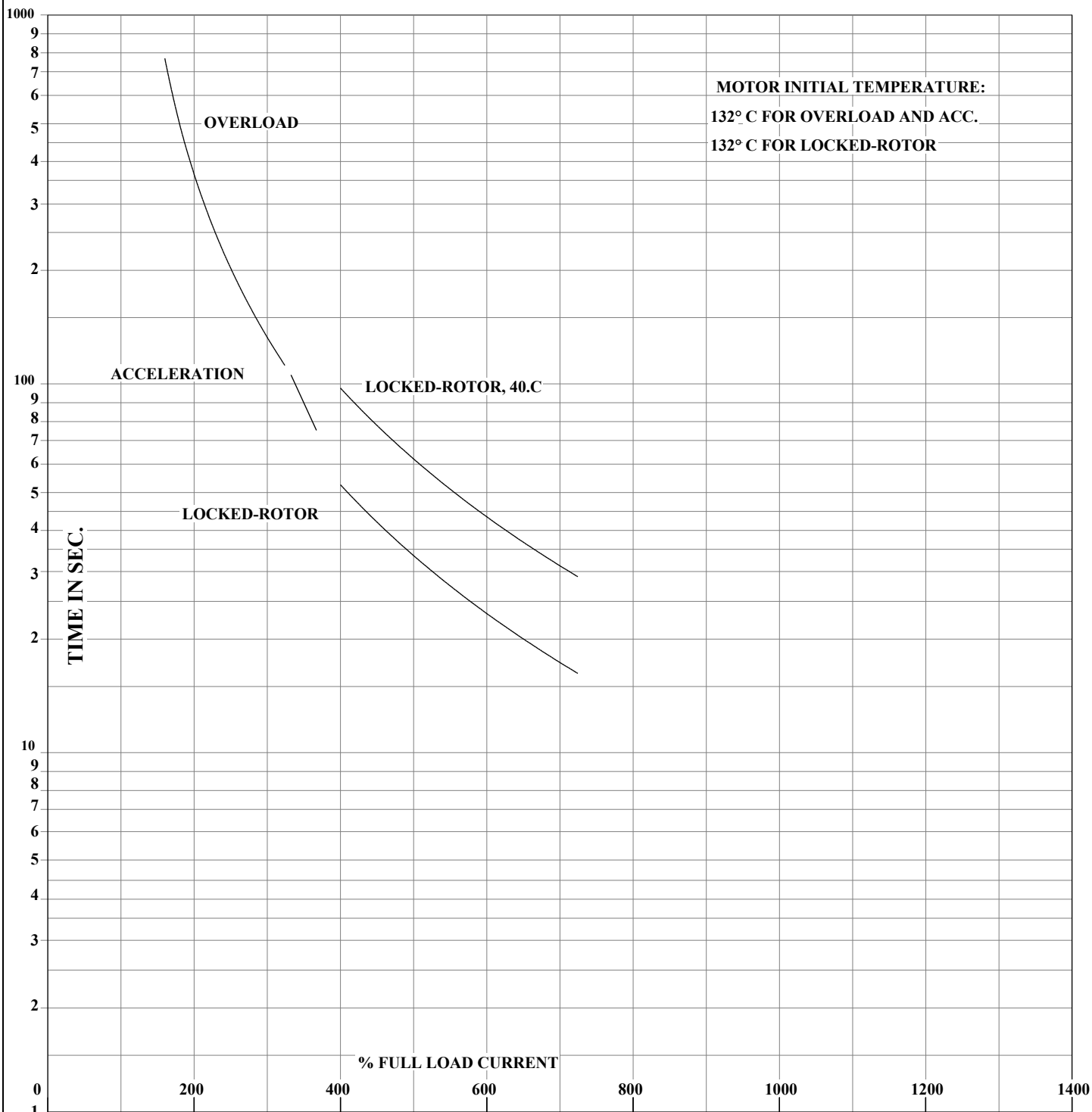
ENCLOSURE TEFC

STATOR RES. @ 25°C .0254/.101

AMB °C / INSUL 40/F

E/S 491281

OHMS (BETWEEN LINES)



MOTOR INITIAL TEMPERATURE:

132° C FOR OVERLOAD AND ACC.

132° C FOR LOCKED-ROTOR

THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 94.5 %

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

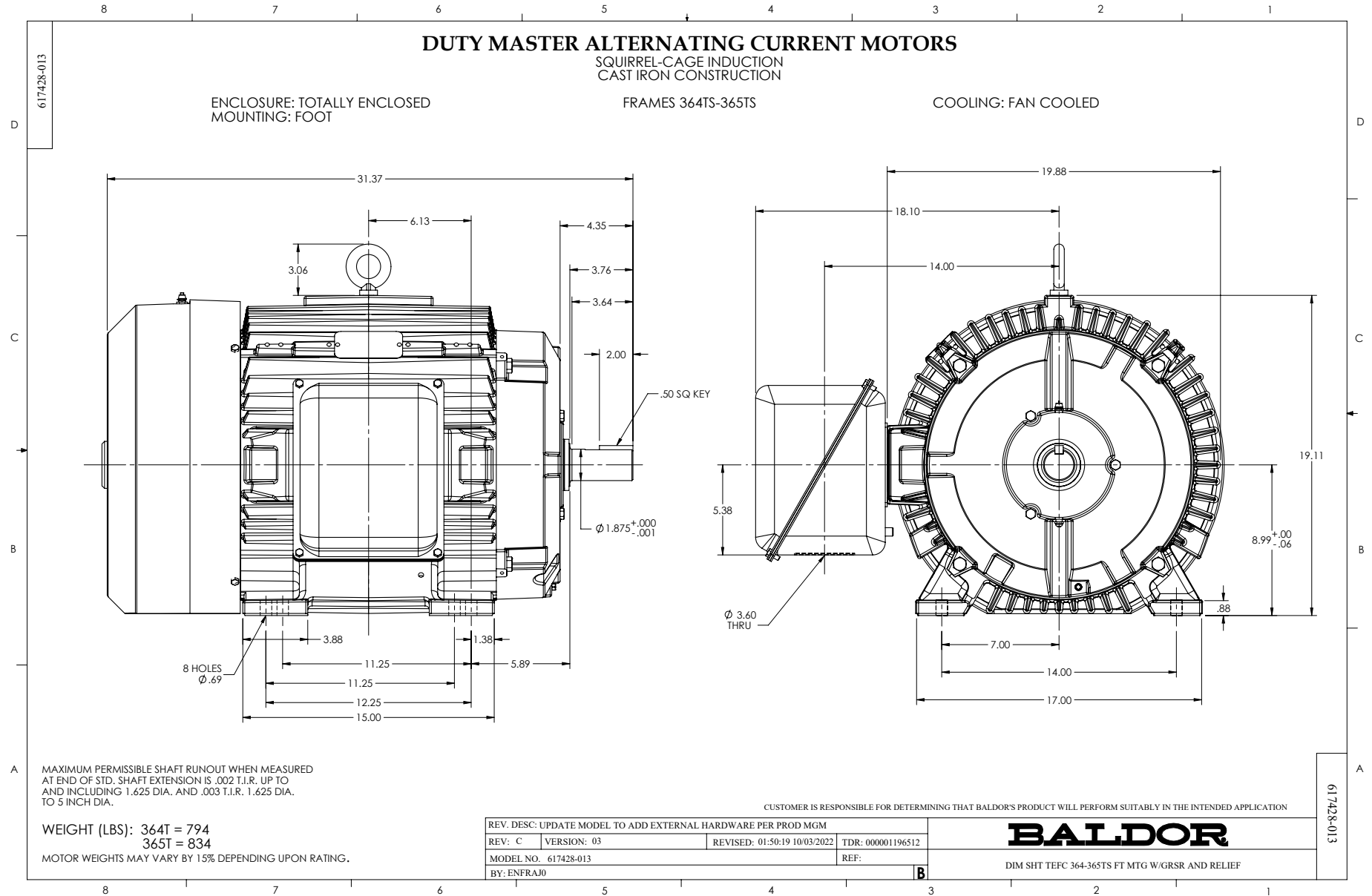


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AC MOTOR
PERFORMANCE
DATA

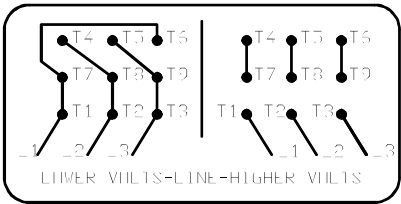
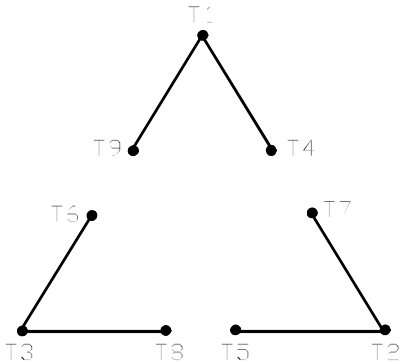
A36WG0224-R004

ISSUE DATE 01/11/22



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