

ABB BALDOR RELIANCE III

Customer information packet

SPM4310TS

60HP, 3555RPM, 3PH, 60HZ, 364TS, A36056M, TEFC

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	364TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
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
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	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0224
Layout	617438-415
Eff. date	11-20-2025
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	09-20-2023

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	4200 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.35 IN
Power Factor	91
Product Family	General Industrial
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
MOBILE POLYREX EM

NP4562L

CAT NO	SPM4310TS	SPEC NO.	A36-0003-0224		I.P.	55								
HP	60	AMPS	131/65.4		VOLTS	230/460		DESIGN	B					
FRAME SIZE	364TS	RPM	3555	MAX RPM	4200	HZ	60	AMB	40	C				
D.E. BRG.	65BC03J30X	PH.3	3	DUTY	CONT		INSUL.CLASS	F						
O.D.E. BRG.	65BC03J30X	TYPE P	P	ENCL	TEFC	SF	1.15	CODE	G					
POWER FACTOR	91	MAX CORR KVAR	5		NEMA NOM EFFICIENCY	94.5		MOTOR WEIGHT	LBS					
CL.I,DIV 2,GRP:	A,B,C,D	T.CODE	T3		CL.1,ZONE 2,GRP:	IIA,IIB,IIC		T=	200	C	INVERTER T.CODE	T3		
CL.II,DIV 2,GRP:	F,G	T.CODE	T3C		CL II ZONE 22 GRPS IIIB	T=		160	C		INVERTER T.CODE	T3		
ID LOGO	INV TYPE:	VPWM	CT	15	TO	60	VT	3	TO	60	CHP	60	TO	70
ID LOGO	1.0 SF VPWM		WK2	6.7	LBFT2	SL HZ		0.75	MAG CUR	28.2/14.1				
SER.NO.					MEETS INTENT OF IEEE-45				FOR WEATHER PROTECTION					

CUSTOMER INFORMATION PACKET		SPM4310TS - 60HP, 3555RPM, 3PH, 60HZ, 364TS, A36056M, TEFC				
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: W.L. SMITH	AC MOTOR PERFORMANCE DATA	A36WG0224-R004
	CHECKED BY: G.R. WEBB		
	APPROVED BY: E.J. CHRISTIAN		
	DATE: 03/11/02		DATE ISSUED 01/11/22

FRAME 364

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 131/65.4

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

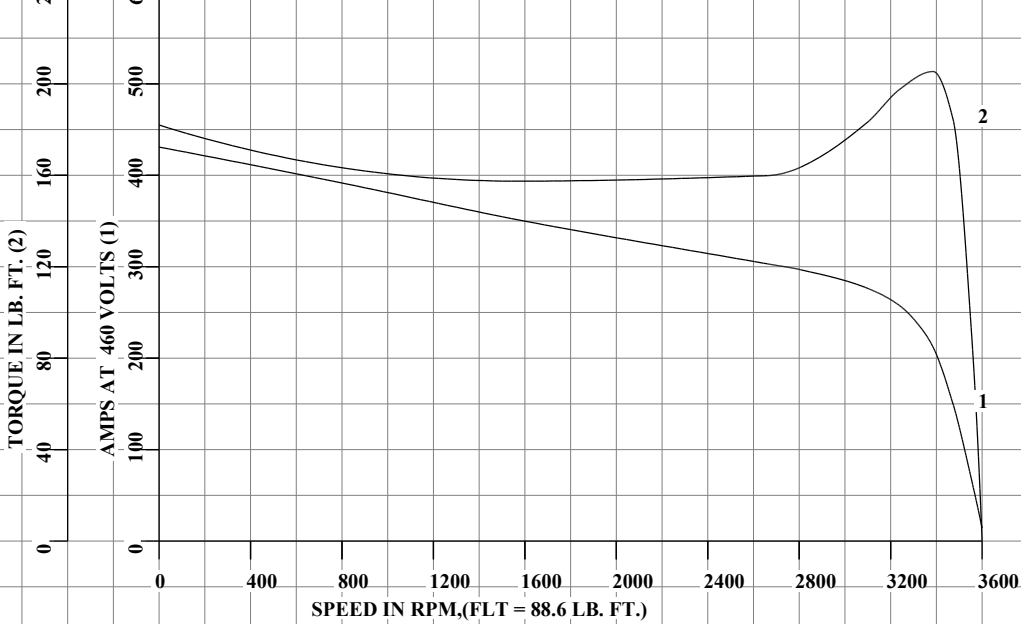
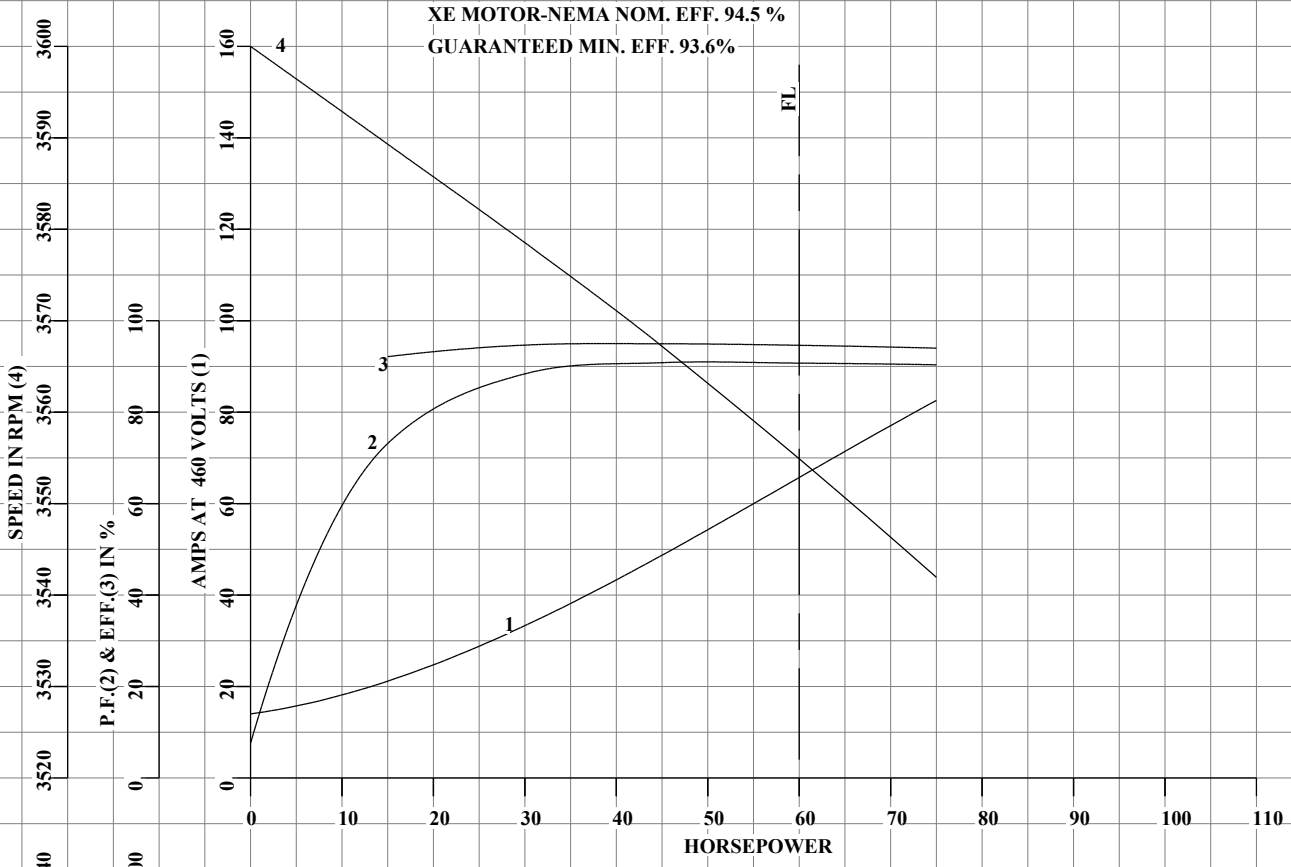
STATOR RES. @ 25°C .0254/.101

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 491281

OHMS (BETWEEN LINES)



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



DRAWN BY: W. L. SMITH
 CHECKED BY: G. R. WEBB
 APPROVED BY: E.J. CHRISTIAN
 DATE: 03/11/02

**AC MOTOR
PERFORMANCE
DATA**

A36WG0224-R004

ISSUE DATE 01/11/22

FRAME 364

RPM 3555
VOLTS 230/460

S.F. 1.15
NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 131/65.4

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

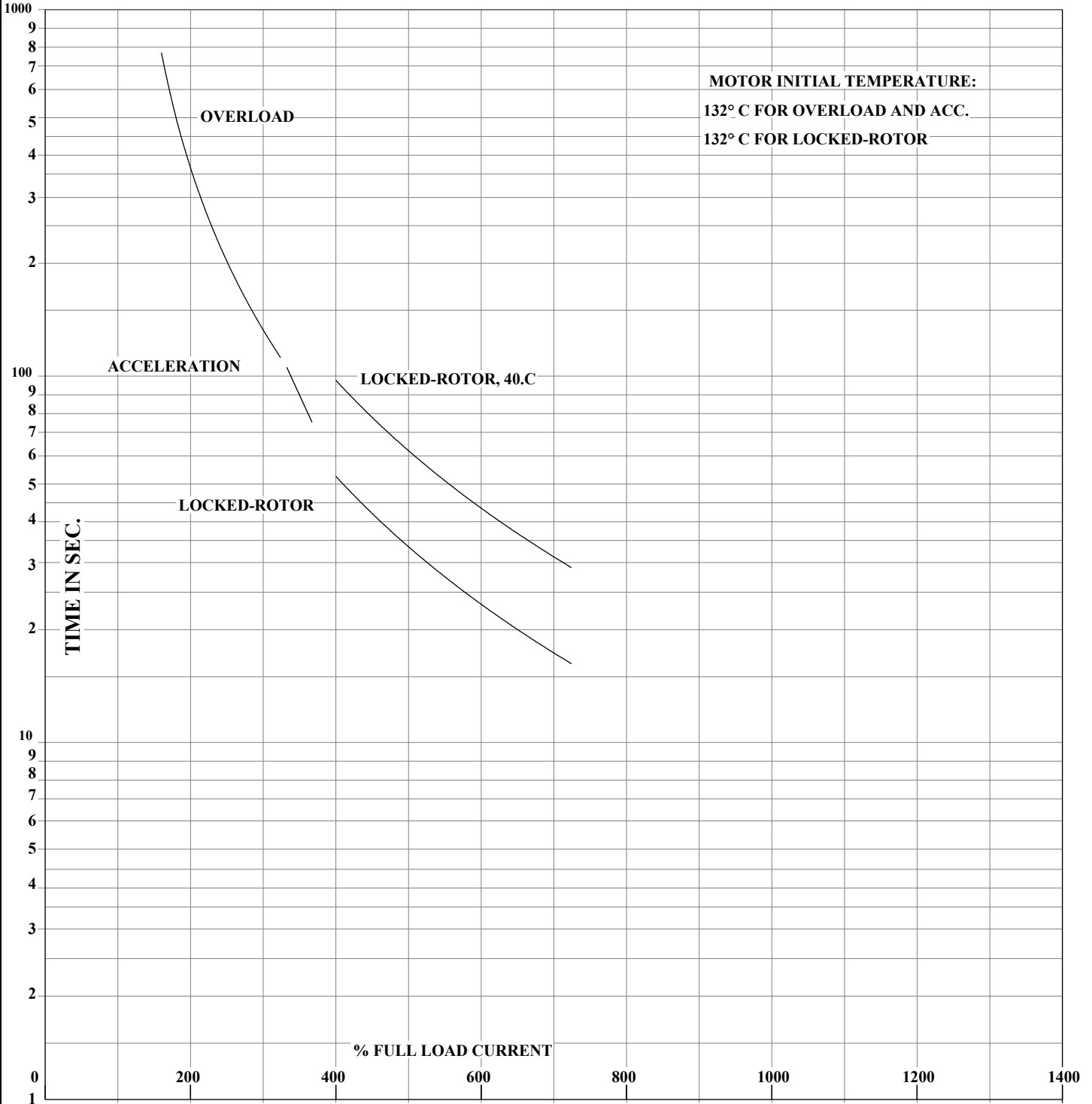
STATOR RES. @ 25°C .0254/.101

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 491281

OHMS (BETWEEN LINES)



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.

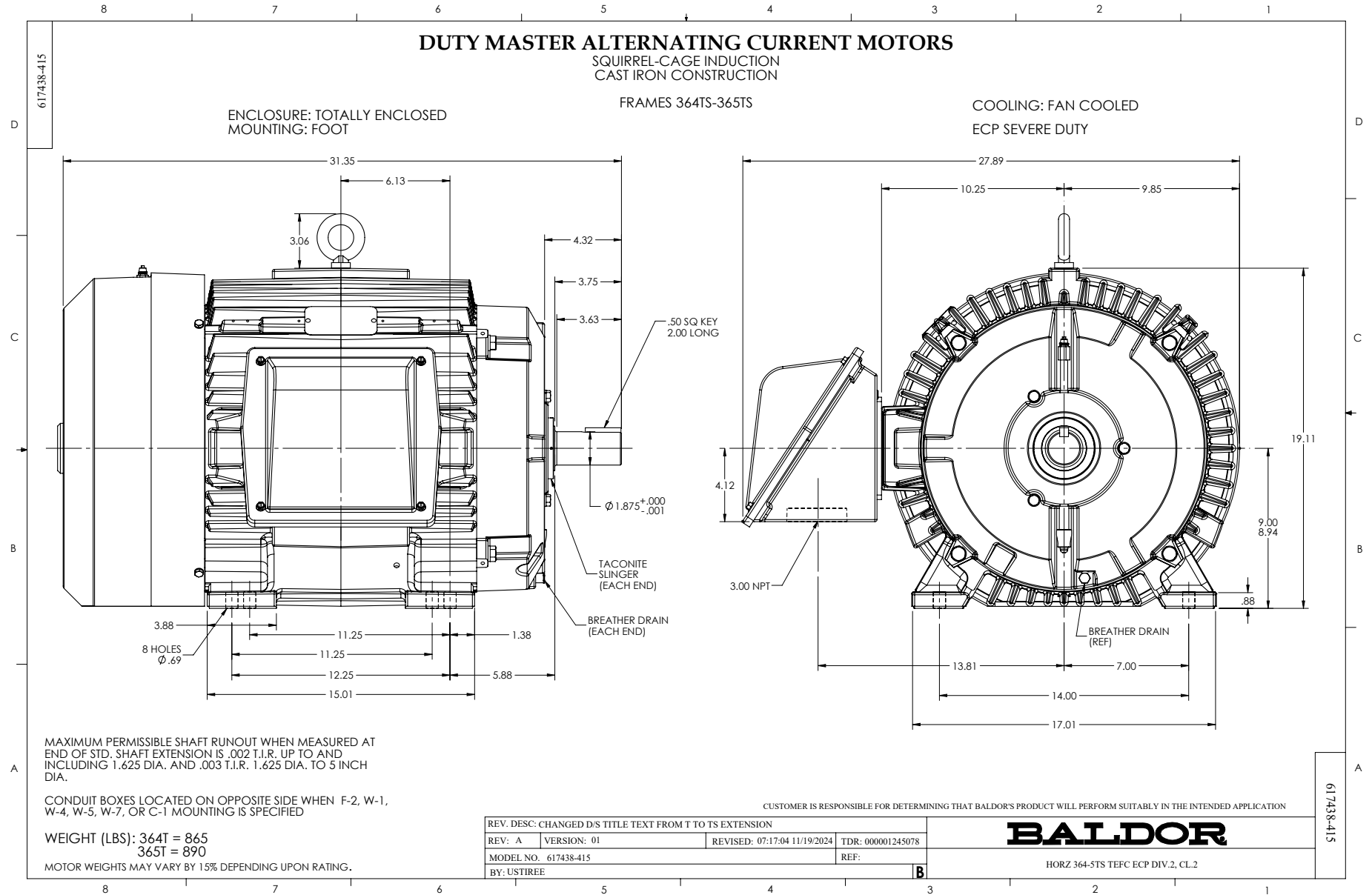


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AC MOTOR
PERFORMANCE
DATA

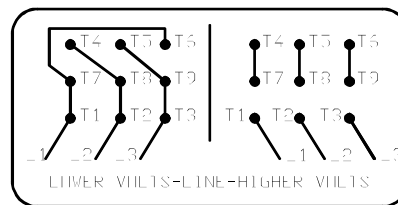
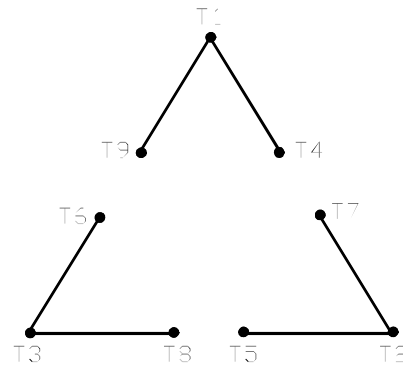
A36WG0224-R004

ISSUE DATE 01/11/22



416820-002

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



(N.P. 1575-B)

416820-002

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

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