

ABB BALDOR RELIANCE III

Customer information packet

CEM4310T-G

60HP, 3565RPM, 3PH, 60HZ, 364TSC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364TSC
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	134.000 A @ 230.0 V 67.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	67.2 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3648
Layout	617428-017
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	08-20-2019

Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.31 IN
Power Factor	89
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP3979LUA

CAT #		CEM4310T-G				SER				CC		010A				
SPEC		A36-7788-3648				RATING		40C AMB-CONT								
HZ		VOLTS		AMPS		RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF		
60		230/460		134/67.2		3565		60	G		1.15	B	89	%	93.6	%
		-												%		%
PH	3	CL	H	MAX CORR KVAR		8.4										
BRG		DE	6313	ODE	6313	ENCL	TEFC	FR	364TSC							
GREASE		POLYREX EM								MTR WT		900	LBS			
USABLE AT		50HP 190/380V 133/66.5A								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														

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364TSC	60	P	3/60	3565	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
134/67.2	CONT	40/H	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
591878	418141002XE	---	---	.0283/.113		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	16.7	3600	10.0	0	
1/4	15.0	23.4	3591	67.9	88.6	
2/4	30.0	35.9	3582	84.5	92.7	
3/4	45.0	50.9	3572	88.4	93.6	
4/4	60.0	67.2	3562	89.3	93.6	
5/4	74.9	83.7	3552	89.9	93.2	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	156	138	435	
PULL UP		720	128	113	425	
BREAKDOWN		3396	280	248	271	
FULL LOAD		3562	100	88.5	67.2	
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 J. P. TSAO		A-C MOTOR PERFORMANCE A36WG3648-R009 DATA ISSUE DATE 08/20/19		
		CK. BY W. L. SMITH				
		APP. BY E. J. CHRISTIAN				
		DATE 08/02/16				

REL S.O.

RPM 3565

S.F. 1.15

ROTOR 418141002XE

FRAME 364TSC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 60

AMPS 134/67.2

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

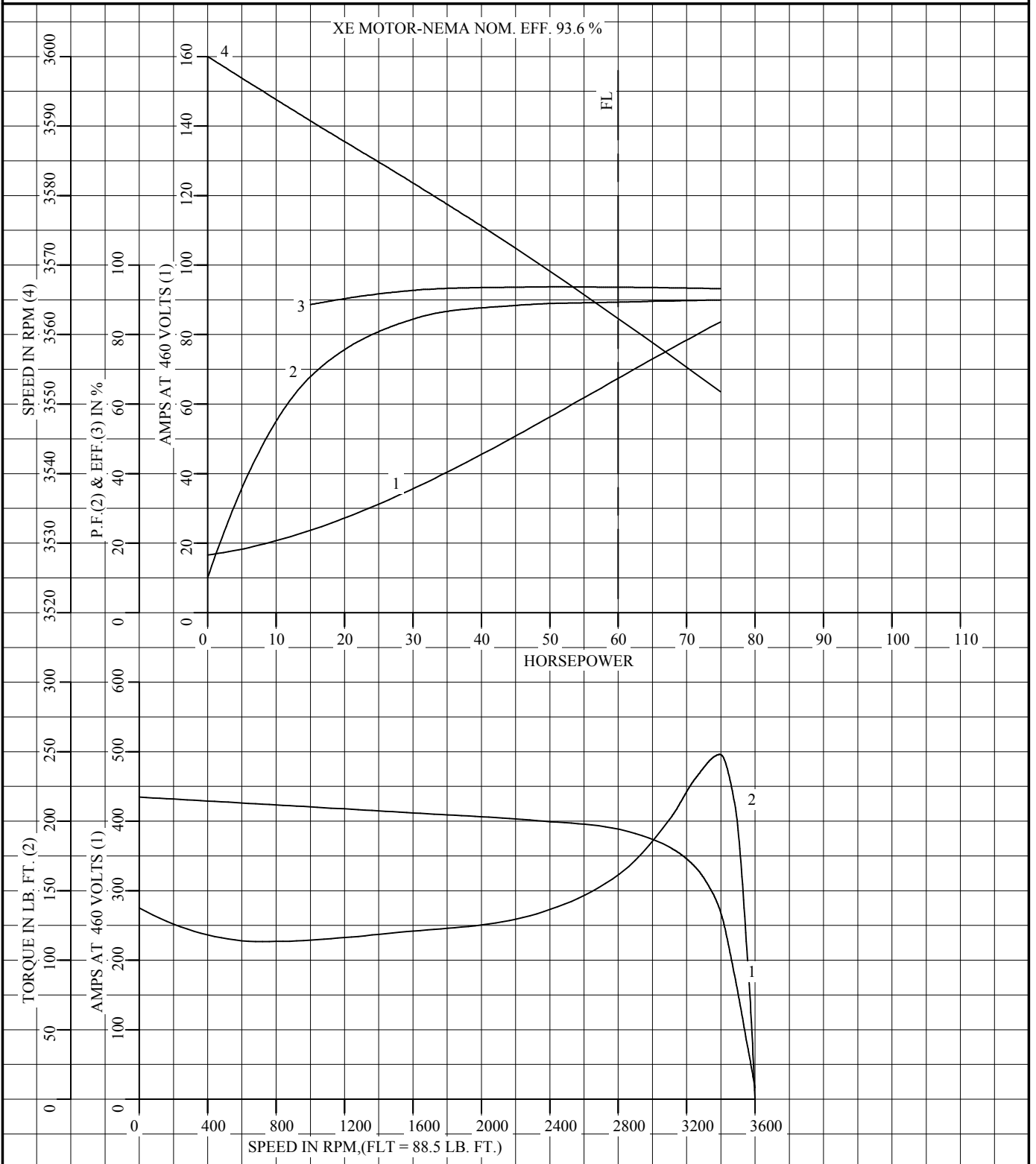
STATOR RES. @ 25 °C .0283/.113

PHASE/HERTZ 3/60

AMB °C/INSUL 40/H

E/S 591878

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. P. TSAO

CK. BY W. L. SMITH

APP. BY E. J. CHRISTIAN

DATE 08/02/16

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG3648-R009

ISSUE DATE 08/20/19

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REL. S.O.

RPM **3565**

S.F. **1.15**

ROTOR **418141002XE**

FRAME **364TSC**

VOLTS **230/460**

NEMA DESIGN **B**

TEST S.O. **TYPICAL DATA**

HP **60**

AMPS **134/67.2**

CODE LETTER **G**

TEST DATE **---**

TYPE **P**

DUTY **CONT**

ENCLOSURE **TEFC**

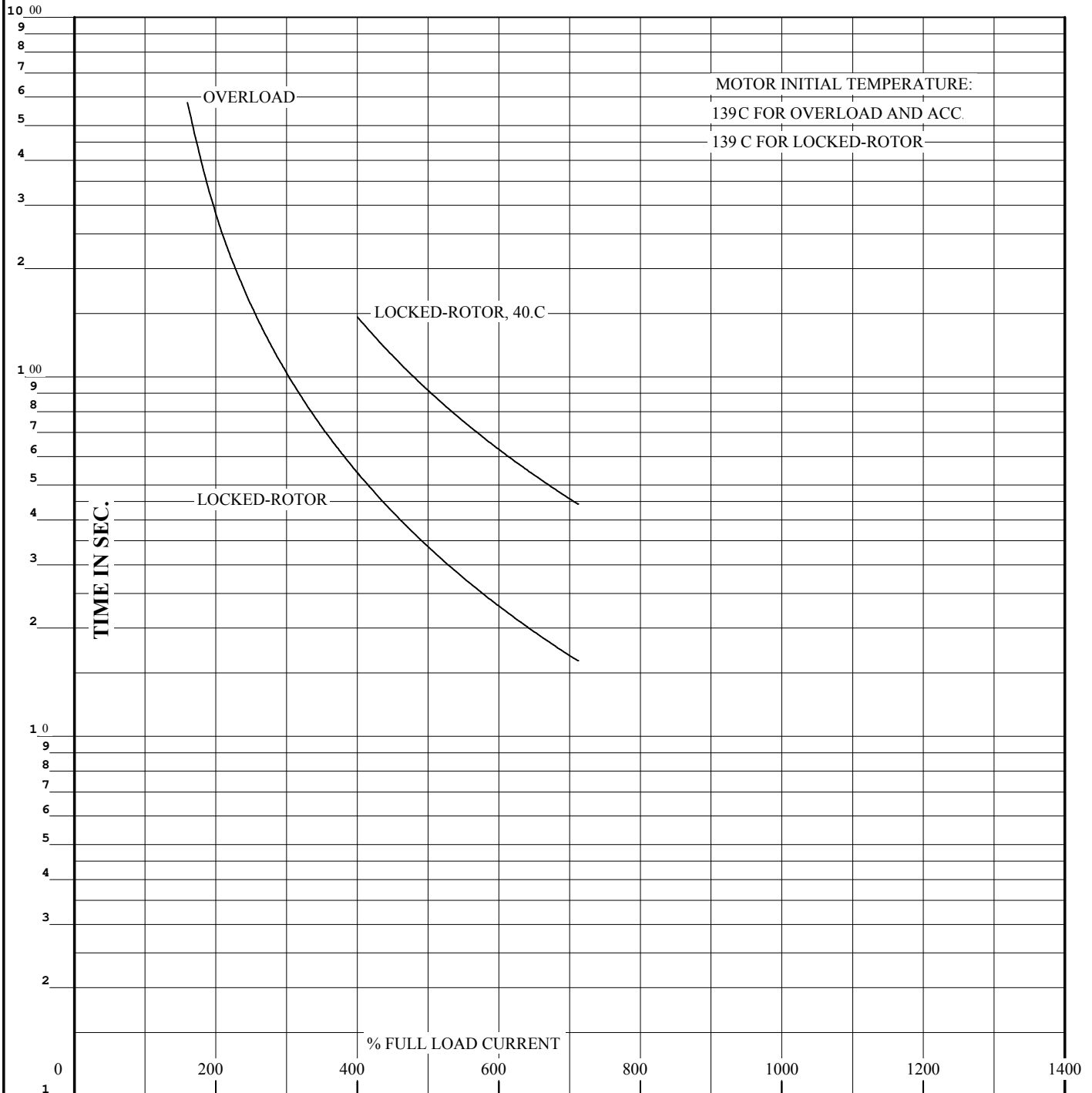
STATOR RES. @ 25 °C **.0283/.113**

PHASE/HERTZ **3/60**

AMB °C/INSUL **40/H**

E/S **591878**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

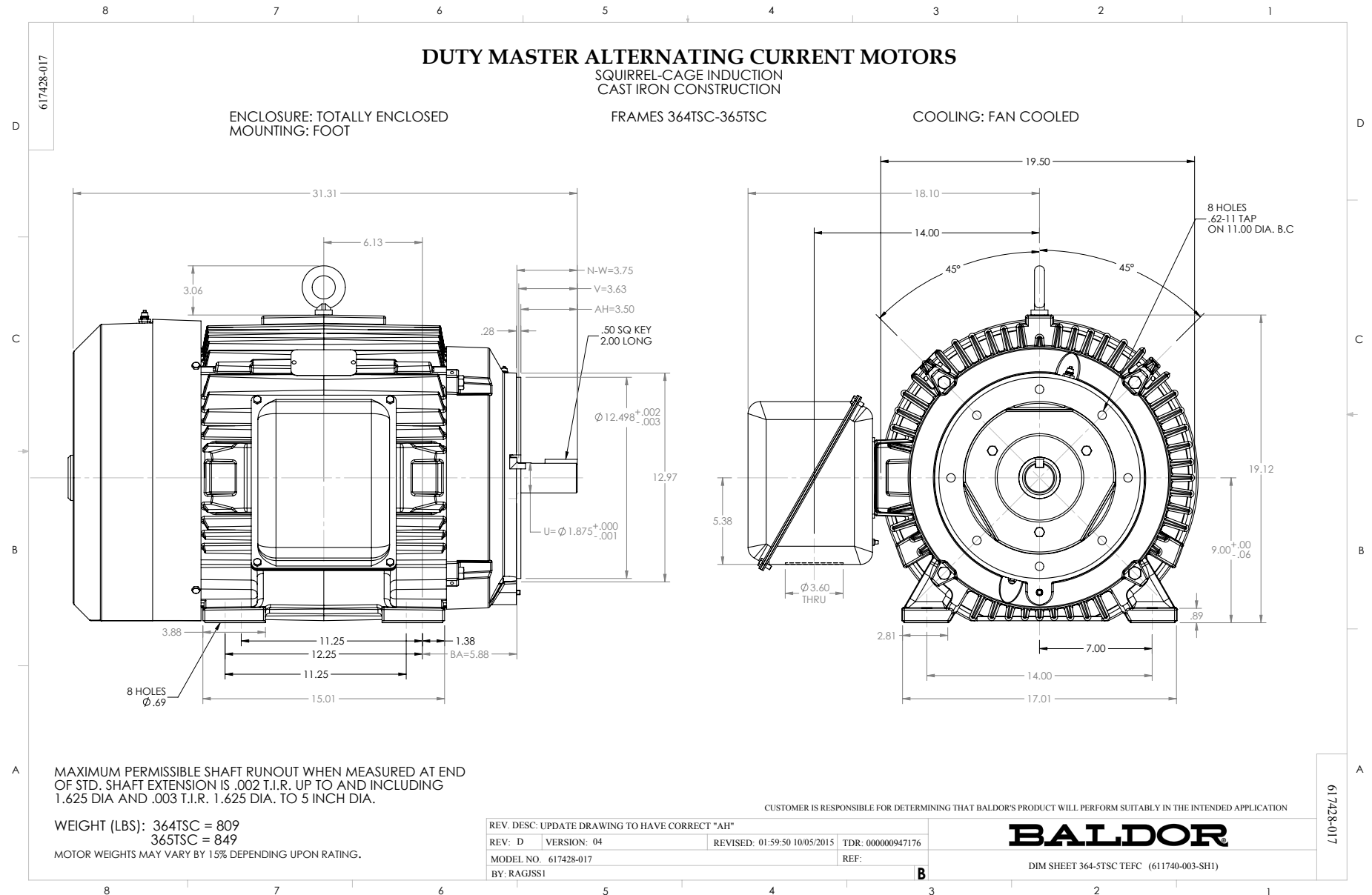
REMARKS:

XE MOTOR-NEMA NOM. EFF. 93.6 %

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CURVES**
A36WG3648-R009

ISSUE DATE 08/20/19 Page 7 of 9



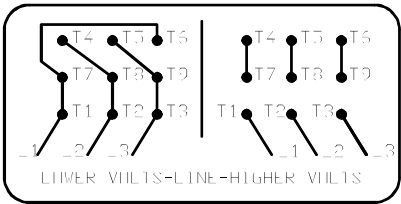
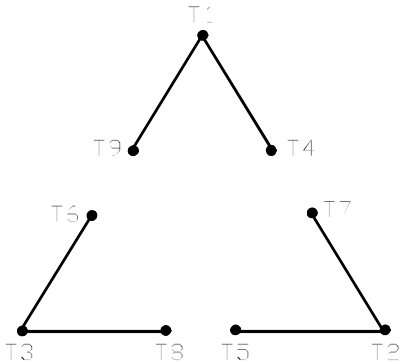
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END
OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING
1.625 DIA AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): 364TSC = 809
365TSC = 849

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

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