

ABB BALDOR RELIANCE III

Customer information packet

CEM4313T-G

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365TSC
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	165.000 A @ 230.0 V 82.400 A @ 460.0 V
Design Code	B
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	82.4 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3719
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 Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.31 IN
Power Factor	91
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	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 #		CEM4313T-G				SER				CC		010A				
SPEC		A36-7044-3719				RATING		40C AMB-CONT								
HZ		VOLTS		AMPS		RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF		
60		230/460		165/82.4		3555		75	F		1.15	B	91	%	94.1	%
		-												%		%
PH	3	CL	H	MAX CORR KVAR		8										
BRG		DE	6313	ODE	6313	ENCL	TEFC	FR	365TSC			44				
GREASE		POLYREX EM								MTR WT			LBS			
USABLE AT		50HZ 60HP 190/380V 158/79A								SF1.0						
INVERTER DUTY		CT	15-60	HZ	4:1	VT	3-60	HZ	20:1	CHP	60-75	HZ	1.5:1	1.0 SF VPWM		
MAX RPM		4500	SFA 190/95													

Parts List

Part number	Description	Quantity
SA382461	SA A36-7044-3719	1.000 ea
RA372595	RA A36-7044-3719	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3979LUA	SS SUPER-E UR CSA-C-US-EEV NEMA PREM CC	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415072001B	CLAMP	1.000 ea
078559001A	+FANCV - 360	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
702675001C	FAN 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
410700004F	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
085922070H	E360 C FACE BRKT 6313 BRG 085922069WCA	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415045002E	SLGR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
043292000AJ	GASK 320-400	1.000 ea
402731001A	GASK 360-440	1.000 ea

418150003A	GREASE FITTING CAP	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
MG1025Y17	WILKOFAST, 789.701, SUPER E PEARL GOLD	0.250 ga
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
	365TS	75	P	3/60	3555	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
165/82.4	CONT	40/H	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892367	418141-5-AE	---	---	.0223/.0895		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	21.5	3600	6.76	0	
1/4	18.8	29.5	3589	65.1	91.5	
2/4	37.5	44.9	3579	83.0	94.2	
3/4	56.2	62.9	3568	88.6	94.5	
4/4	75.0	82.4	3556	90.5	94.1	
5/4	93.8	103	3543	91.0	93.4	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	152	169	516	
PULL UP		1440	134	148	506	
BREAKDOWN		3382	263	291	325	
FULL LOAD		3556	100	111	82.4	
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-CALCULATED DATA-NEMA NOM. EFF. 94.1 PCT.						
		DR. BY	G. R. WEBB	A-C MOTOR PERFORMANCE DATA		
		CK. BY	W. L. SMITH			
		APP. BY	E. J. CHRISTIAN			
		DATE	04/11/14			
				A36WG3719-R004 ISSUE DATE 04/24/20		

REL S.O.

RPM 3555

S.F. 1.15

ROTOR 418141-5-AE

FRAME 365TS

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 165/82.4

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

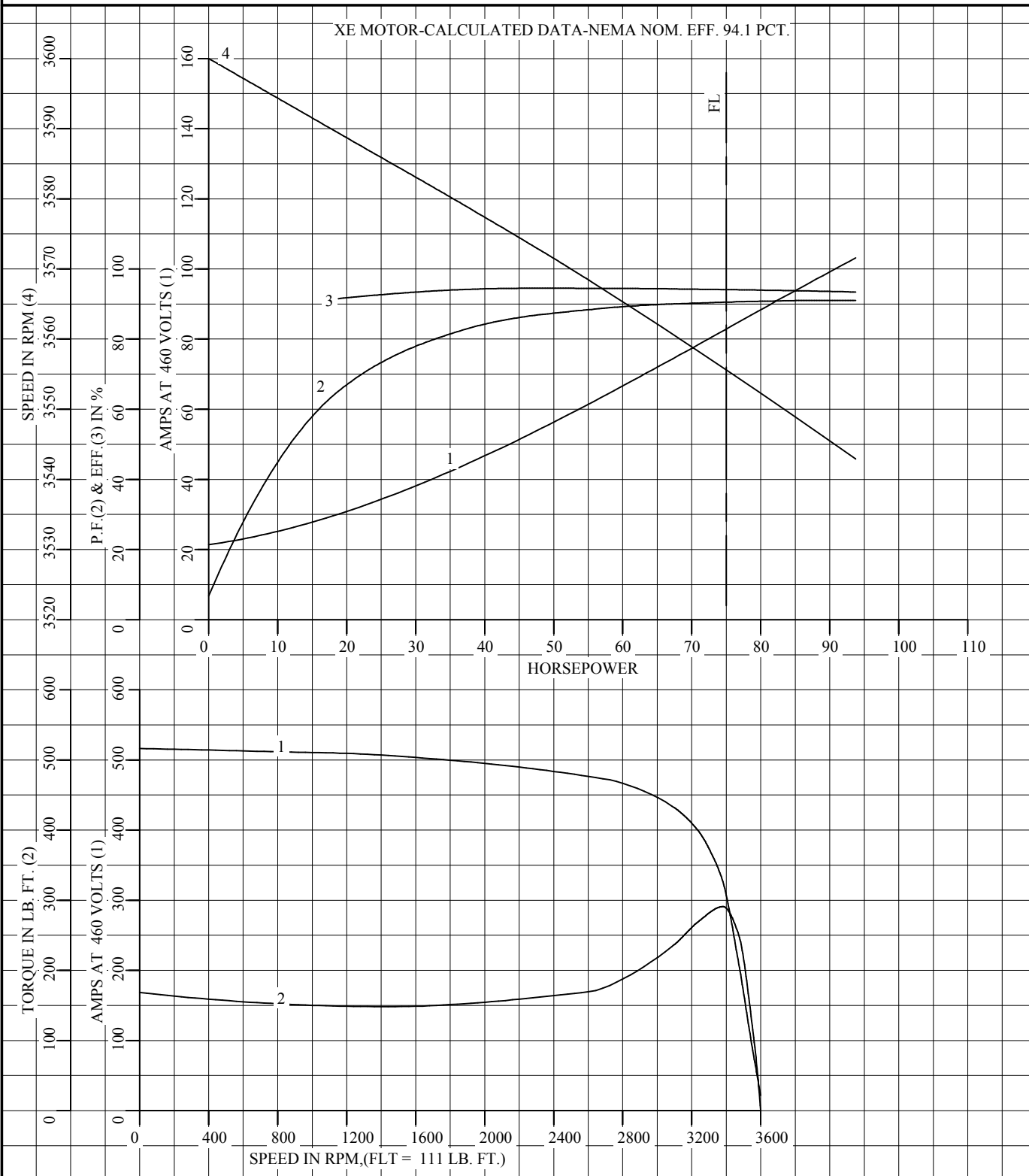
STATOR RES. @ 25 °C .0223/.0895

PHASE/HERTZ 3/60

AMB °C/INSUL 40/H

E/S 892367

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 G. R. WEBB
CK. BY W. L. SMITH
APP. BY E.J. CHRISTIAN
DATE 04/11/14

**A-C MOTOR
PERFORMANCE
CURVES**

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REL. S.O.

RPM 3555

S.F. 1.15

ROTOR 418141-5-AE

FRAME 365TS

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 165/82.4

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

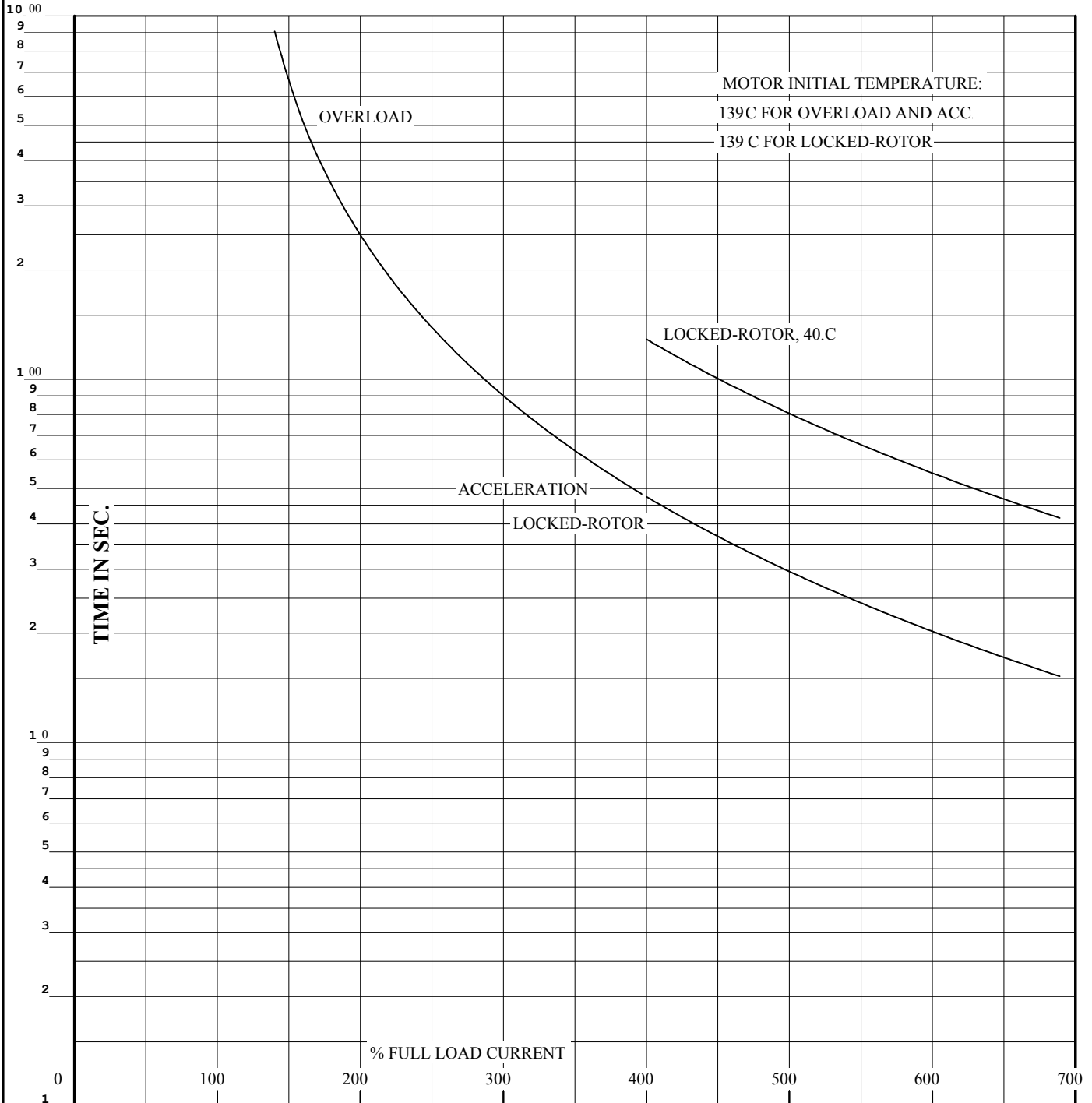
STATOR RES. @ 25 °C .0223/.0895

PHASE/HERTZ 3/60

AMB °C/INSUL 40/H

E/S 892367

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 94.1 PCT.

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

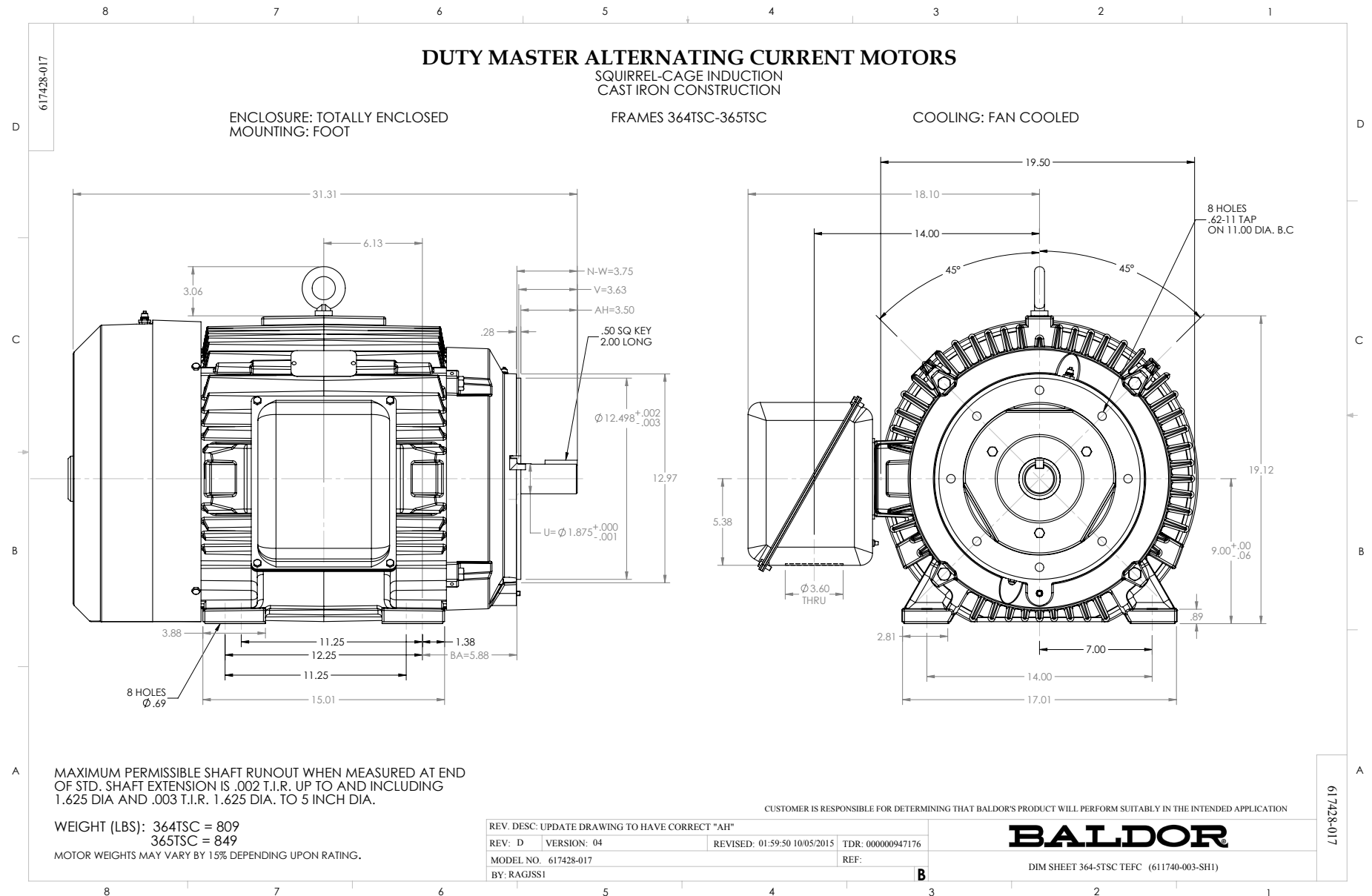
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
CK. BY W. L. SMITH
APP. BY E.J. CHRISTIAN
DATE 04/11/14

**A-C MOTOR
PERFORMANCE
CURVES**

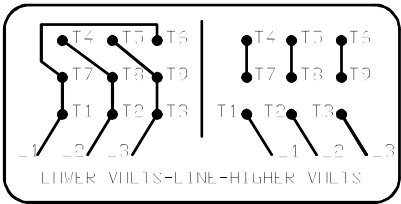
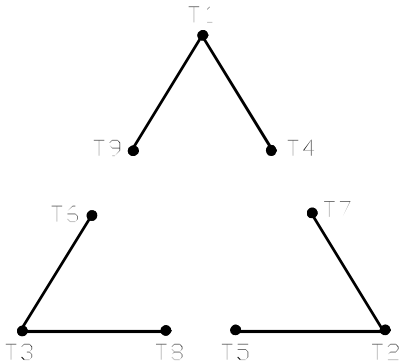
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416820-002

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
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
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BALDOR - RELIANCE®

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

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