



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

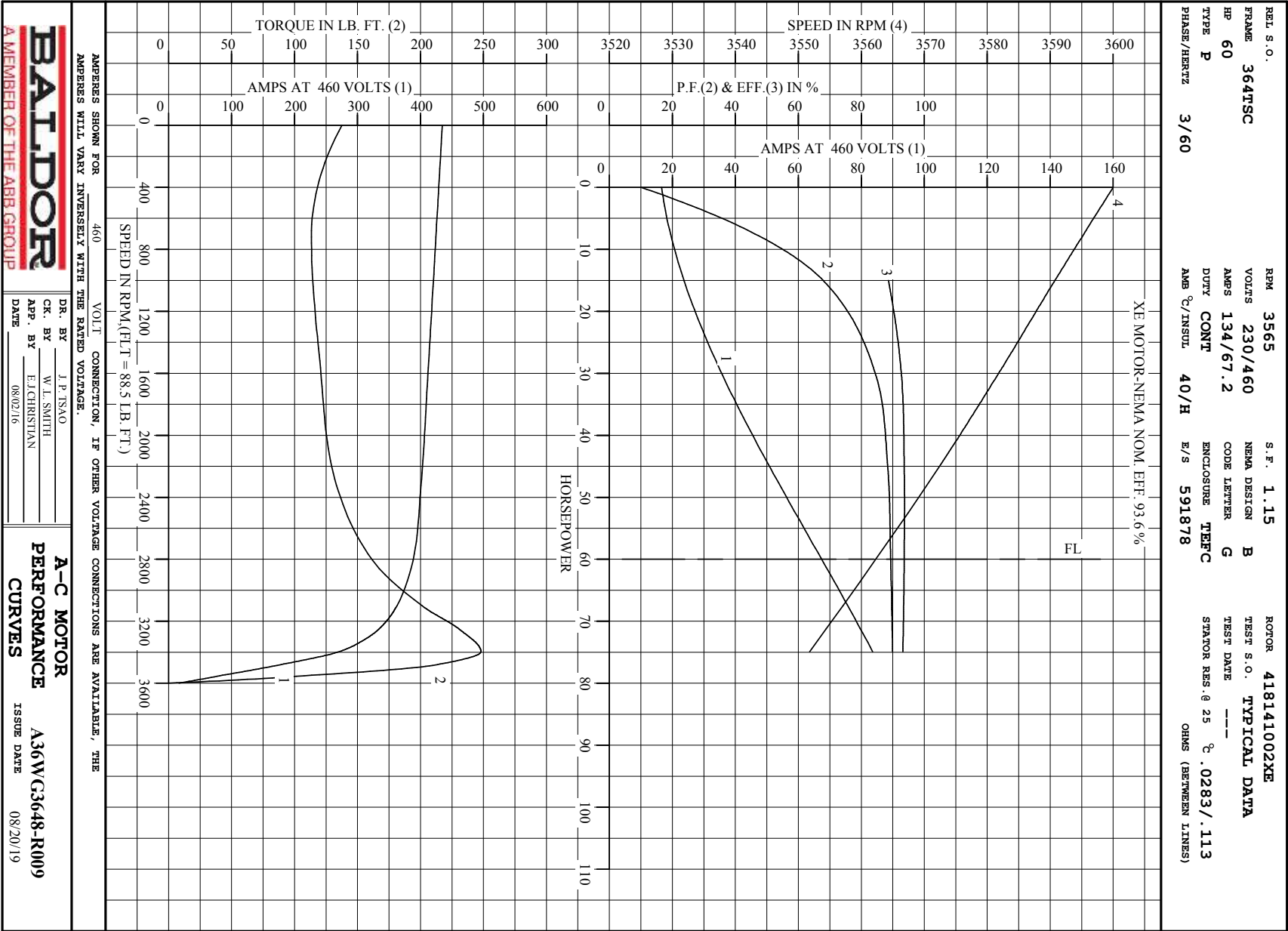
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.31 IN
Power Factor	89
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground 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
	36ATSC	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 %						
				A-C MOTOR PERFORMANCE DATA		
DR. BY J. P. TSAO CR. BY W. L. SMITH APP. BY E. J. CHRISTIAN DATE 08/02/16				A36WG3648-R009 ISSUE DATE 08/20/19		
A MEMBER OF THE ABB GROUP						



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	0.0283/.113
PHASE/HERTZ		3/60	AMB °C/INSUL	40/H	E/S	591878	OHMS (BETWEEN LINES)	

1.00
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

1
2
3
4
5
6
7
8
9
10

OVERLOAD

LOCKED-ROTOR, 40.C

LOCKED-ROTOR

TIME IN SEC.

% FULL LOAD CURRENT

1400
1200
1000
800
600
400
200
0

MOTOR INITIAL TEMPERATURE:
139C FOR OVERLOAD AND ACC
139 C FOR LOCKED-ROTOR

AMPERES SHOWN FOR 460

VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE

AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

DR. BY J. P. TSAO

CR. BY W. L. SMITH

APP. BY E. J. CHRISTIAN

DATE 08/02/16

A-C MOTOR

PERFORMANCE

CURVES

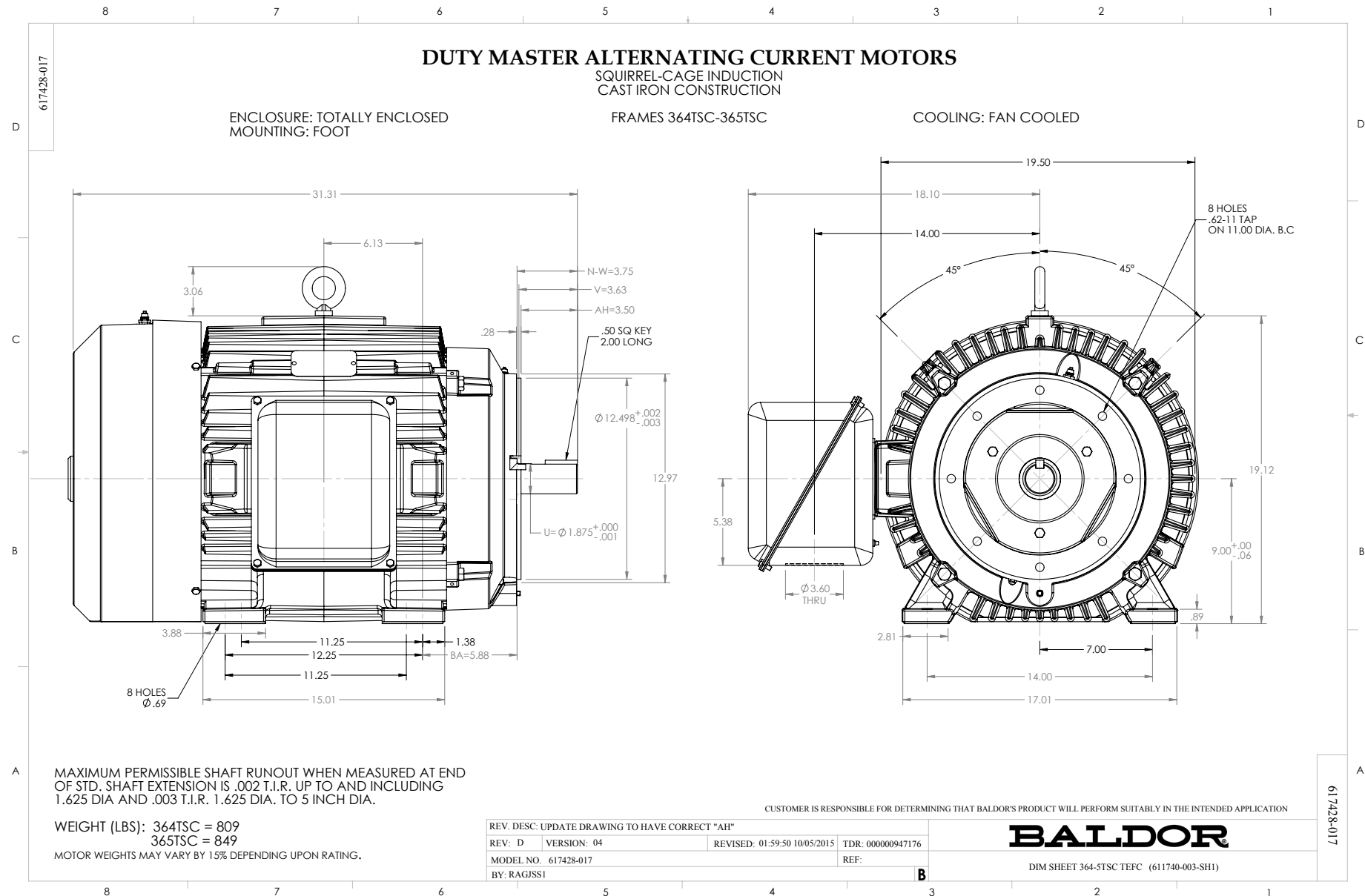
A36WG3648-R009

ISSUE DATE 08/20/19

REMARKS:

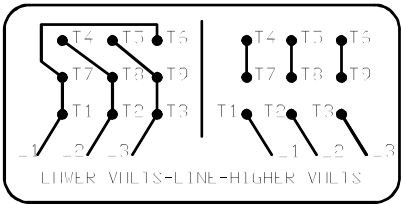
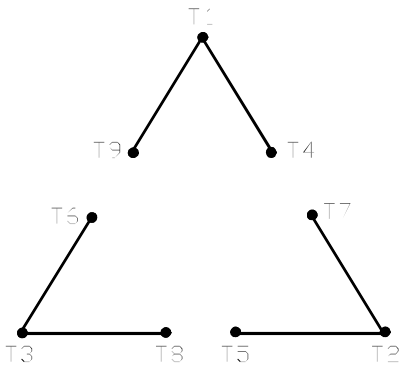
XE MOTOR-NEMA NOM. EFF. 93.6 %

THERMAL LIMIT CURVE



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