

ABB BALDOR RELIANCE III

Customer information packet

EM4312T

50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	62.000 A @ 460.0 V 132.000 A @ 208.0 V 124.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4262
Layout	617428-012
Eff. date	09-17-2025
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	04-01-2022

Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	81
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP3979LUA

CAT #		EM4312T				SER				CC		010A												
SPEC		A36-8068-4262				RATING		40C AMB-CONT																
HZ		VOLTS		AMPS		RPM		HP		CODE		-	SF	DES	PF	NEMA NOM. EFF								
60		230/460		124/62		1185		50		G			1.15	B	81 %	94.1 %								
		-													%	%								
PH	3	CL	F	MAX CORR KVAR		15.8																		
BRG	DE	6313		ODE		6313		ENCL	TEFC		FR	365T		54										
GREASE		POLYREX EM								MTR WT		840		LBS										
USABLE AT		50HZ 40HP 190/380V 120/60A										SF1.0												
INVERTER DUTY		CT		15-60		HZ		4:1		VT		3-60		HZ		20:1		CHP	60-90		HZ	1.5:1	1.0 SF VPWM	
MAX RPM		1800		SFA 142/71																				

Parts List

Part number	Description	Quantity
SA403372	SA A36-8068-4262	1.000 ea
RA394686	RA A36-8068-4262	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3979LUA	SS SUPER-E UR CSA-C-US-EEV NEMA PREM CC	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
702676001C	FAN 360	1.000 ea
078559001A	+FANCV - 360	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
415045002E	SLGR	1.000 ea
085922073B	BRKT 360 085922072WCC KB	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
035000001A	ALFTG 1/8" 1610-BL	1.000 ea

043292000AJ	GASK 320-400	1.000 ea
077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							EM4312T - 50HP, 1185RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F													
							FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS										
							365HP		50		P		3/60		1185		230/460										
							AMPS		DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE								
							124/61.9		CONT		40/F		1.15		B		G		TEFC								
							E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)												
							-		418141089AE		---		---		.0290/.116												
PERFORMANCE																											
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY												
NO LOAD			0			23.9			1200			5.00			0												
1/4			12.5			28.4			1197			45.8			90.1												
2/4			25.0			37.2			1194			67.2			93.6												
3/4			37.5			48.7			1191			76.4			94.3												
4/4			50.0			61.9			1188			80.3			94.2												
5/4			62.5			76.1			1185			82.0			93.7												
SPEED TORQUE																											
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES												
LOCKED ROTOR						0			165			365			375												
PULL UP						540			147			325			335												
BREAKDOWN						1135			253			559			200												
FULL LOAD						1188			100			221			61.9												
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																											
TYPICAL DATA NEMA NOM. EFF. 94.1 PCT																											
						DRAWN BY: <u>C.B.ATANGANE</u> CHECKED BY: <u>J. P. TSAO</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>11/12/25</u>						AC MOTOR PERFORMANCE DATA			A36WG4262-R001 DATE ISSUED 11/12/25												

FRAME 365HP

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 50

AMPS 124/61.9

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

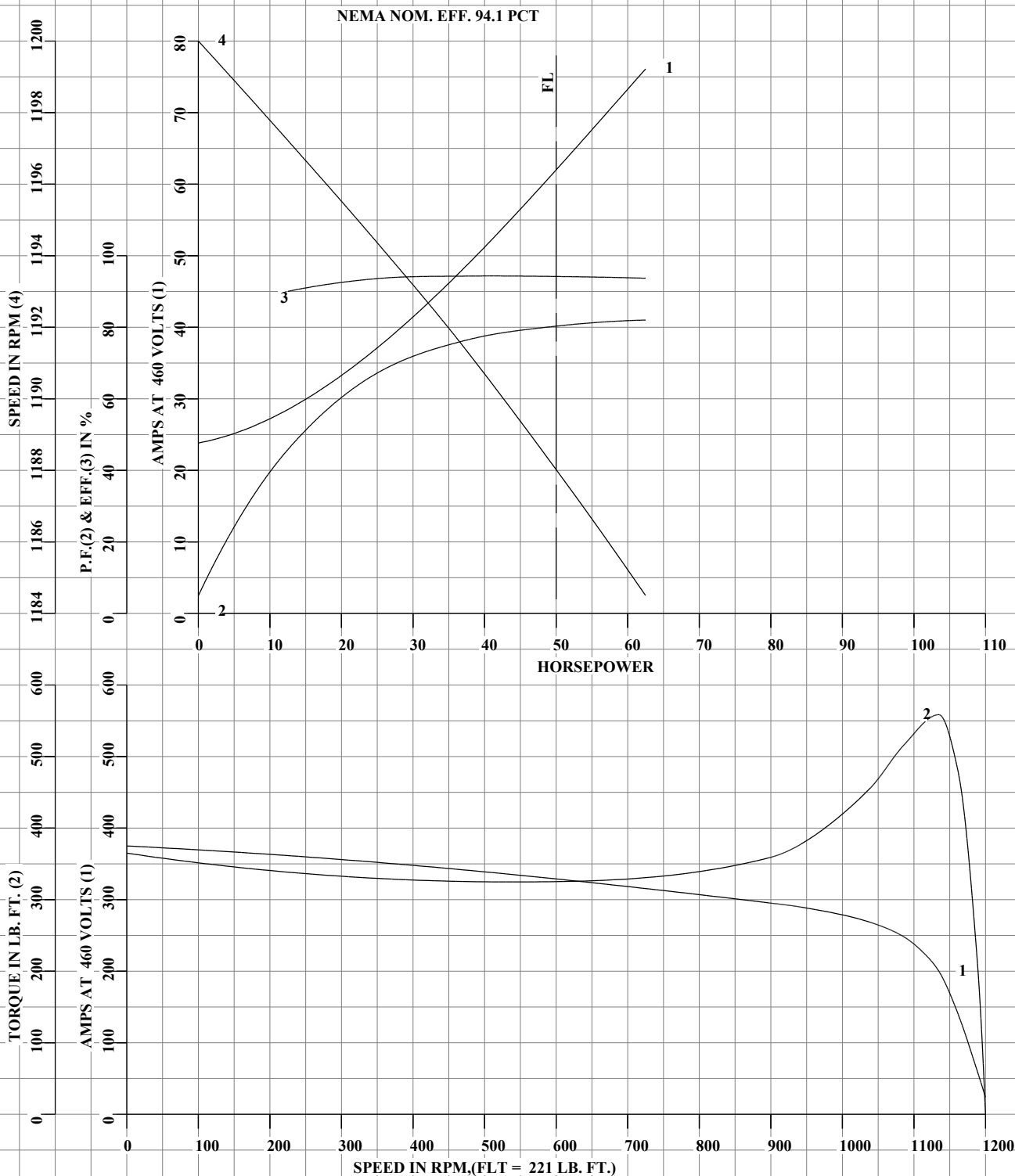
STATOR RES. @ 25°C .0290/.116

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S -

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.

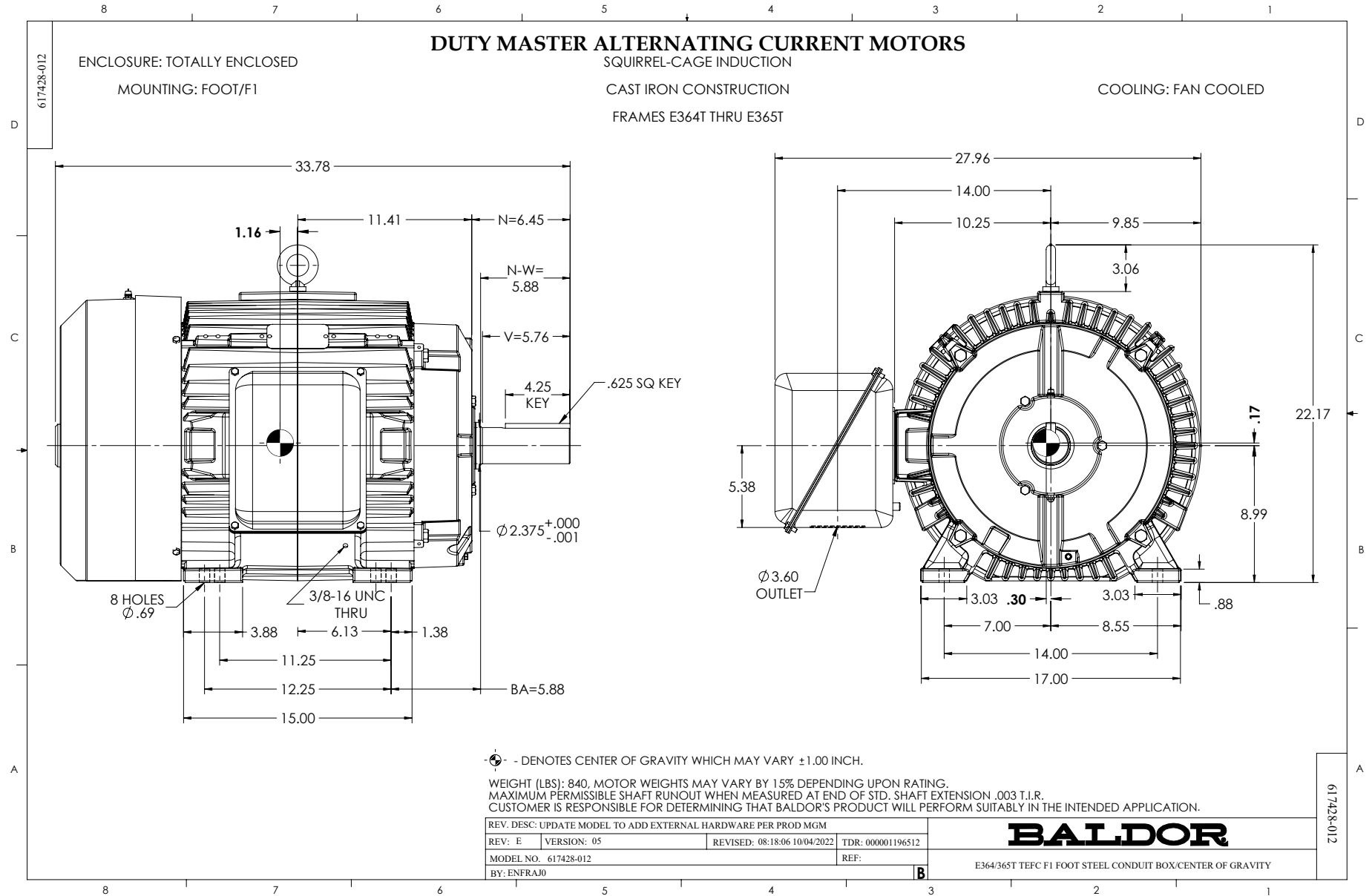


DRAWN BY: C.B. ATANGANE
CHECKED BY: J. P. TSAO
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DATE: 11/12/25

AC MOTOR
PERFORMANCE
DATA

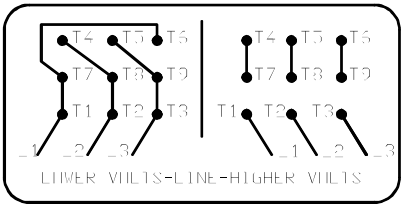
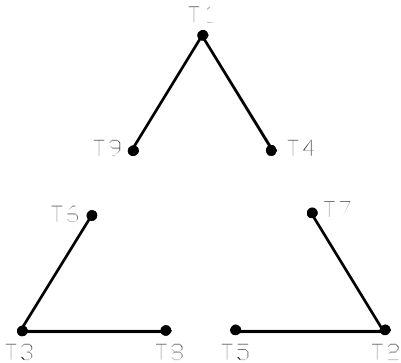
A36WG4262-R001

ISSUE DATE 11/12/25



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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