ABB BALDOR RELIANCE

Customer information packet

ECTM4312T-G

50HP, 1185RPM, 3PH, 60HZ, 364T, A3668M, TEFC, F
Class - None
Division - Not Applicable

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11/15/2026 6:57:12 AM

Specifications

Enclosure	TEFC
Frame	364T
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	CCSAUSEEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	Heater Included, 115 V
High Voltage Full Load Amps	62.0 a
Insulation Class	H
Inverter Code	Inverter Ready

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4262
Layout	617438-196
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	09-30-2022

KVA Code	G
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	33.78 IN
Power Factor	81
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3979LUA

CAT #	ECTM4312T-G					**SER**						**CC**	010A														
SPEC	A36-8070-4262											**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**	364T			54																
GREASE	POLYREX EM											**MTR WT**	908	**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																									

S/O	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.

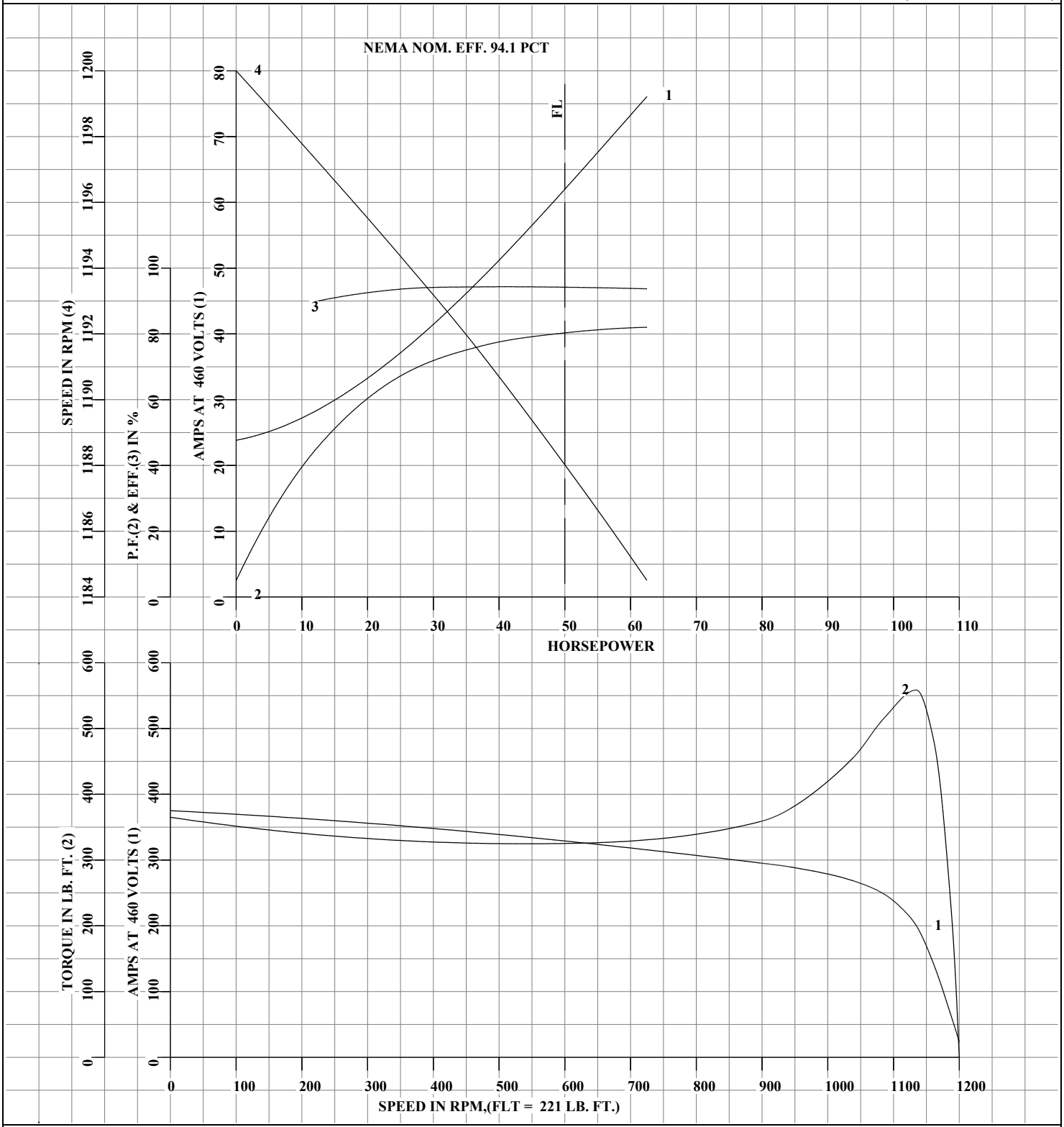
TYPICAL DATA
NEMA NOM. EFF. 94.1 PCT

ABB	DRAWN BY: C.B.ATANGANE CHECKED BY: J. P. TSAO APPROVED BY: W. L. SMITH DATE: 11/12/25	AC MOTOR PERFORMANCE DATA	A36WG4262-R001 DATE ISSUED 11/12/25

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 365HP	**RPM** 1185	**S.F.** 1.15	**ROTOR** 418141089AE
HP 50	**VOLTS** 230/460	**NEMA DESIGN** B	**TEST S.O.** TYPICAL DATA
TYPE P	**AMPS** 124/61.9	**CODE LETTER** G	**TEST DATE** ---
PHASE / HERTZ 3/60	**DUTY** CONT	**ENCLOSURE** TEFC	**STATOR RES. @ 25°C** .0290/.116
	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.

ABB	**DRAWN BY:** C.B.ATANGANE **CHECKED BY:** J. P. TSAO **APPROVED BY:** W. L. SMITH **DATE:** 11/12/25	**AC MOTOR PERFORMANCE DATA**	**A36WG4262-R001** **ISSUE DATE** 11/12/25

SHEET NUMBER 1 OF 1

617438-196

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

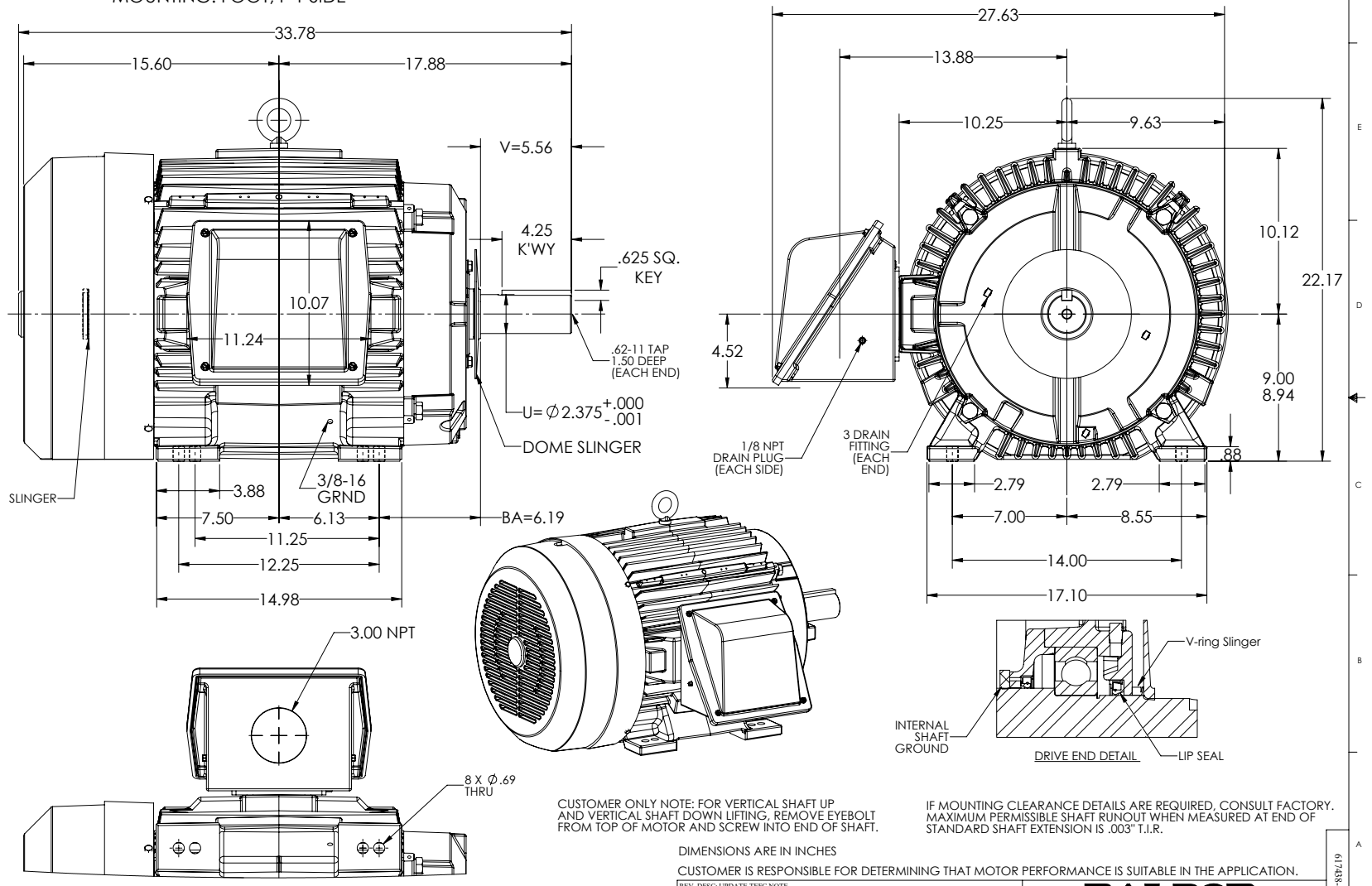
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

FRAME 365T

INCLUDES 364T FRAME MOUNTING HOLES

COOLING: FAN COOLED



CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE TEFC NOTE			
REV: A	VERSION: 01	REVISED: 01:11:28 07/27/2026	TDR: 000001281709
MODEL NO. 617438-196			
BY: USDOSCO2			C

BALDOR

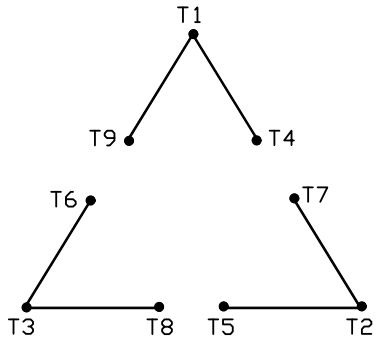
E365T TEFC FT- F1- SLGR, SPCL DRAIN, VERT LIFTING, SH GND

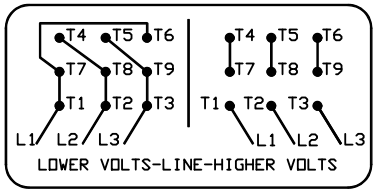
617438-196

617438-196

416820-002

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





(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002