

ABB BALDOR RELIANCE III

Customer information packet

VECP4111T

25HP, 1180RPM, 3PH, 60HZ, 324TC, 1260M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	324TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.0
Current @ Voltage	69.000 A @ 208.0 V 63.000 A @ 230.0 V 32.000 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	W
Type	AC
Mech. spec.	12E914
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYE914
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	06-08-2011

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	32.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.03 IN
Power Factor	79
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 rpm
Speed Code	Single Speed

Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3241																					
CAT.NO.	VECP4111T				P/N				ENCLOSURE				TEFC								
SPEC.	12E914Y116			CC	010A	FRAME		324TC		S/N											
HP	25				CLASS		F	HZ	60	DES	A										
RPM	1180				RPM MAX		1800		PH	3	KVA-CODE		H								
VOLT	230/460				MOTOR WEIGHT				636												
AMP	63/32				SER.F.		1.15	PF	79	ODE BRG		6312	DE BRG		6312						
RATING	40C AMB-CONT				NEMA-NOM-EFF				93		GREASE		POLYREX EM								
									INV.TYPE		PWM										
TEMP CODE	T3	INVERTER-TEMP-CODE				200															
TEMP =	200	C HP FR	60		C HP TO		90														
CT HZ FROM	1.0		CT HZ TO		60																
HTR-VOLTS			HTR-AMPS				HTR-WATTS				MAX. SPACE HEATER TEMP.					VT HZ FROM		O	VT HZ TO		60

AC Induction Motor Performance Data

Record # 47247

Typical performance - not guaranteed values

Winding: 12WGY116-R017			Type: 1260M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25	Full Load Torque		111 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		63/32	Breakdown Torque		308 LB-FT		
R.P.M.		1180	Pull-up Torque		117 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		171 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		198 A
Service Factor (S.F.)		1.15	No-load Current		13.8 A		
NEMA Nom. Eff.		93	Power Factor	79	Line-line Res. @ 25°C		0.27033 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		46°C
S.F. Amps			Temp. Rise @ S.F. Load		56°C		
				Rotor inertia		11.5 LB-FT2	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	75	79	81	81	80
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5	92.8
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9	1181
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1	36.3

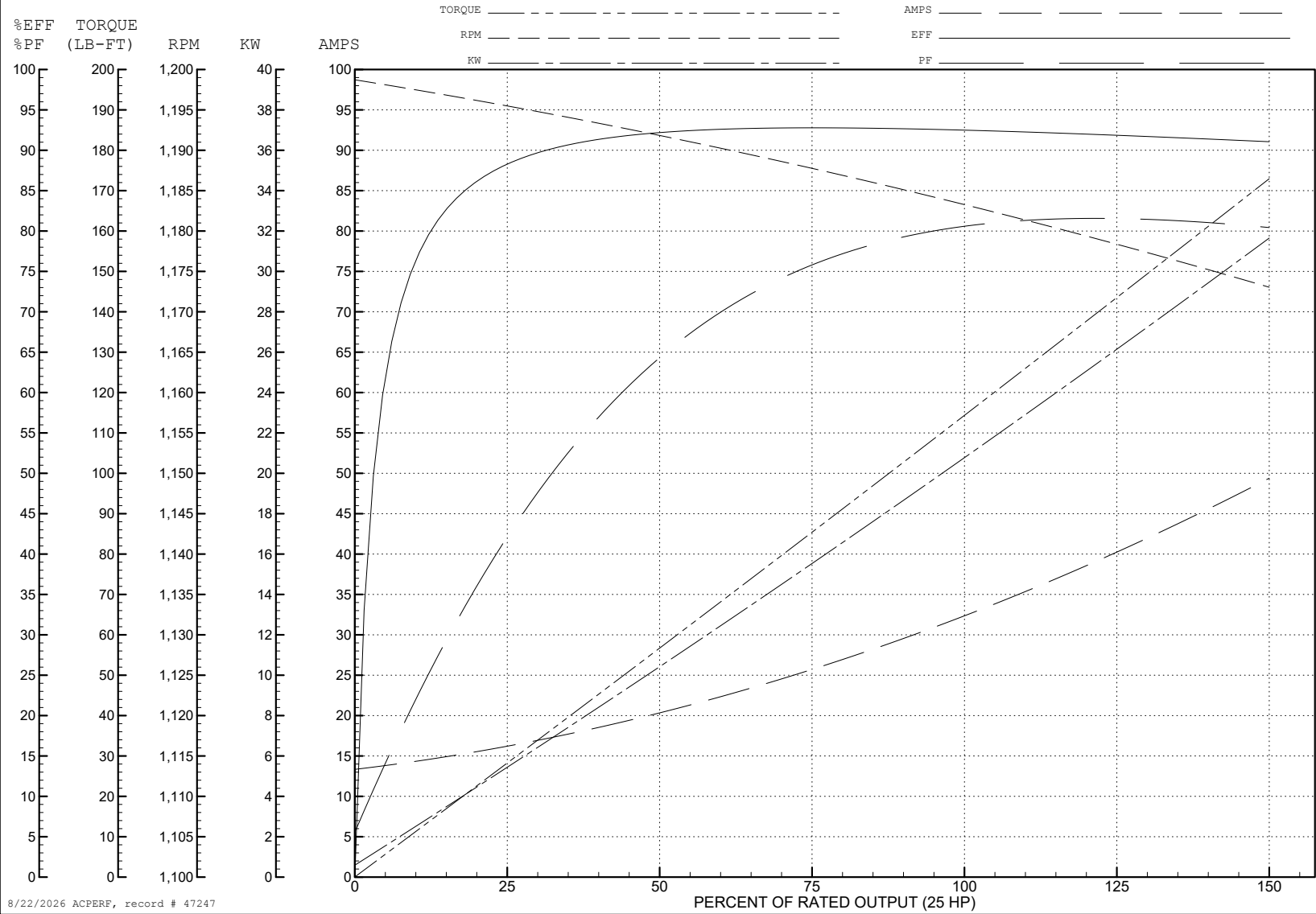
ABB Motors and Mechanical Inc.

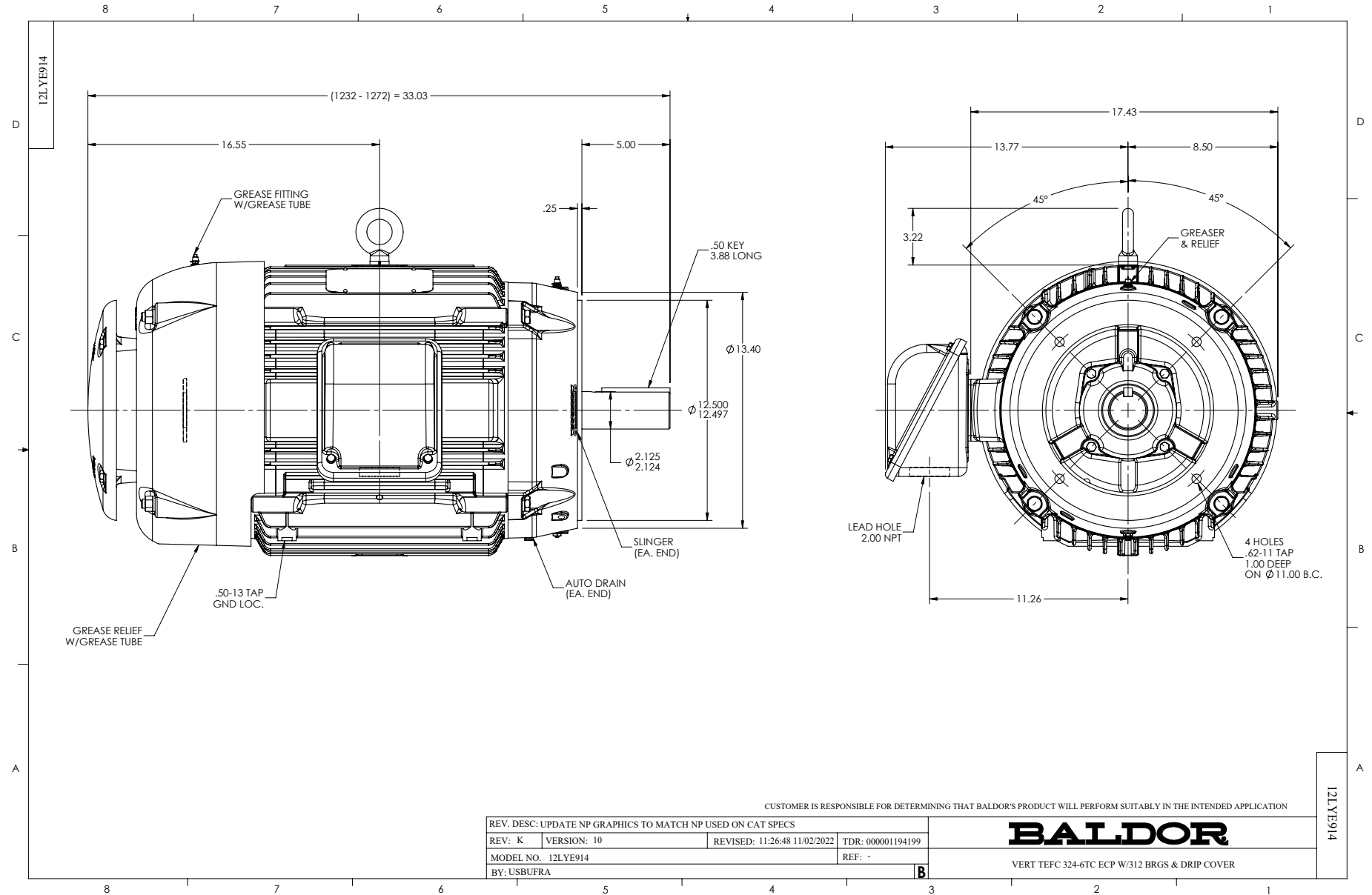
WINDING # 12WGY116

Typical performance - not guaranteed values.

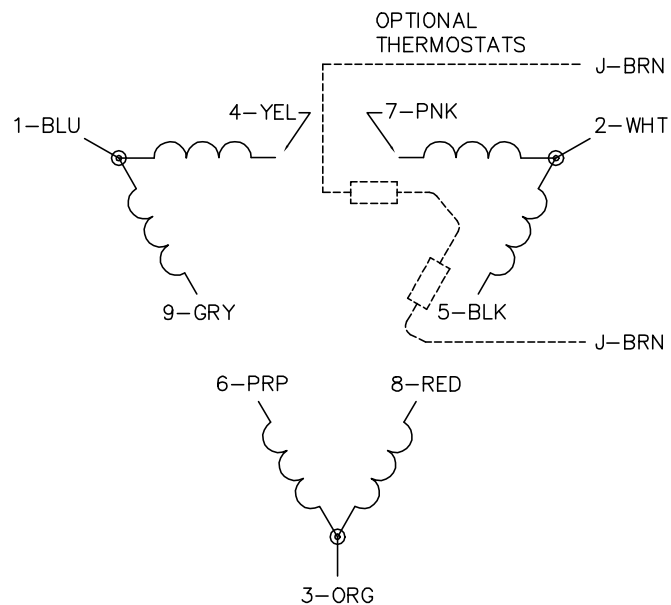
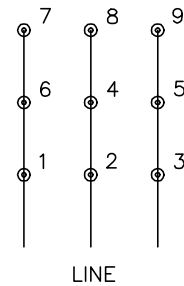
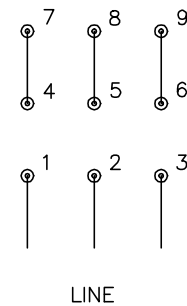
25 HP 3 PH 60 HZ 1180 RPM 460 V 1260M

TORQUES (LB-FT): PO=308 PU=117 LR=171 LRA=198





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180