ABB BALDOR RELIANCE

Customer information packet

VHECP4115T

50HP, 1775RPM, 3PH, 60HZ, 326HP, 1272M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326HP
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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
Current @ Voltage	116.000 A @ 230.0 V
	126.000 A @ 208.0 V
	58.000 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	12S033
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYS033
Eff. date	12-09-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-03-2021

High Voltage Full Load Amps	58.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.72 IN
Power Factor	85
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

NP1260									
CAT.NO.	VHECP4115T								
SPEC.	12S033Z279G1								
HP	50								
VOLTS	230/460								
AMP	116/58								
RPM	1775								
FRAME	326HP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A		**CL**	F	
NEMA-NOM-EFF	94.5	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6311						
ENCL	TEFC	**SN**							
	SFA 132/66								

AC Induction Motor Performance Data
Record # 93227
Typical performance - not guaranteed values

Winding: 12WGZ279-R001	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			50
Volts			230/460
Full Load Amps			116/58
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.5	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			132/66

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	148 LB-FT
Start Configuration	direct on line
Breakdown Torque	437.3 LB-FT
Pull-up Torque	223.3 LB-FT
Locked-rotor Torque	255.3 LB-FT
Starting Current	407.47 A
No-load Current	21 A
Line-line Res. @ 25ºC	0.11287 Ω
Temp. Rise @ Rated Load	66°C
Temp. Rise @ S.F. Load	82°C
Locked-rotor Power Factor	26.5

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	82	85	87	87	86
Efficiency	91.5	94.3	94.7	94.5	93.8	93	94.1
Speed	1791.2	1786.1	1779.1	1773.3	1766.2	1758.5	1769
Line amperes	25.1	34.1	45.4	58.2	72	87	66.5

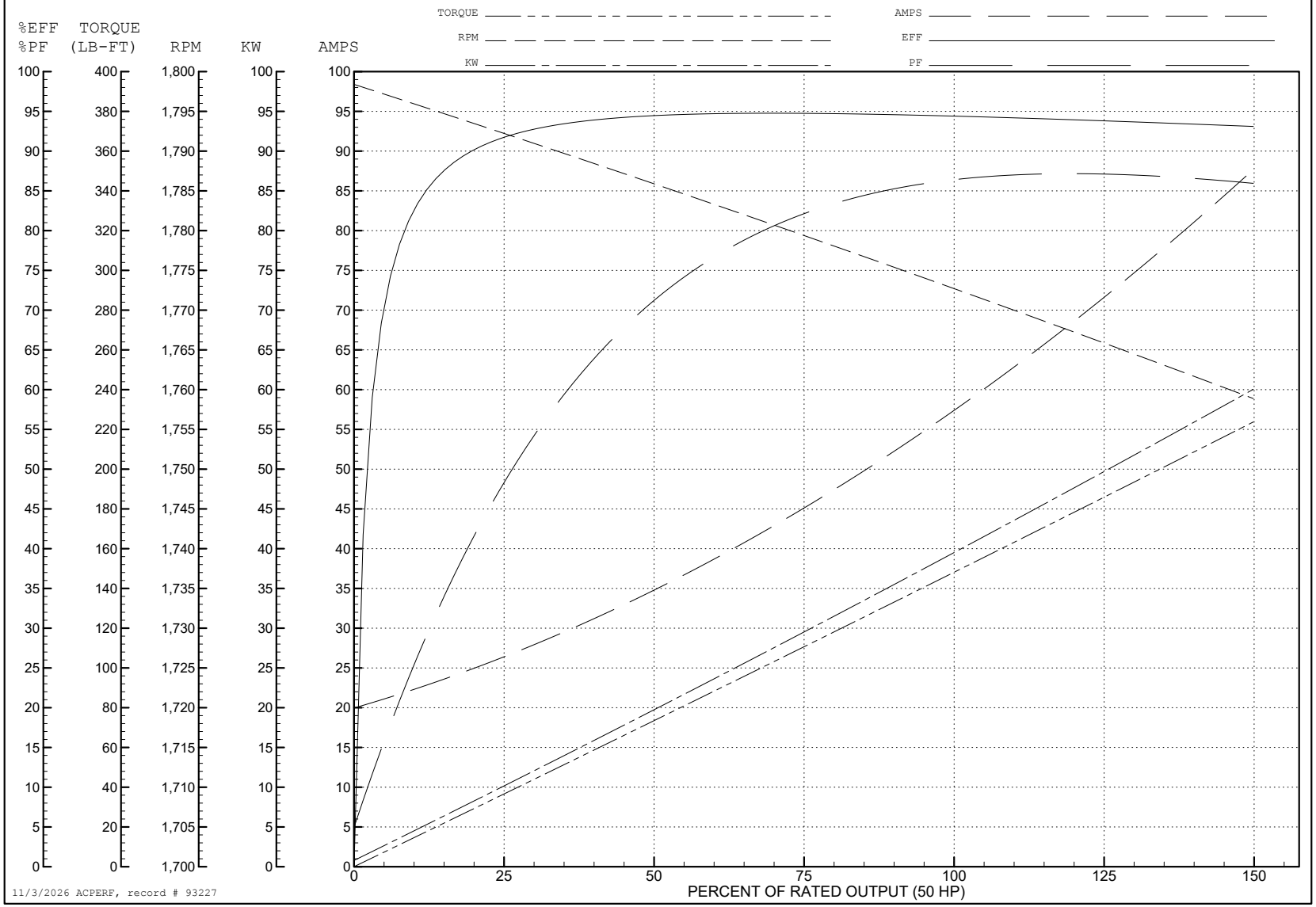
ABB Motors and Mechanical Inc.

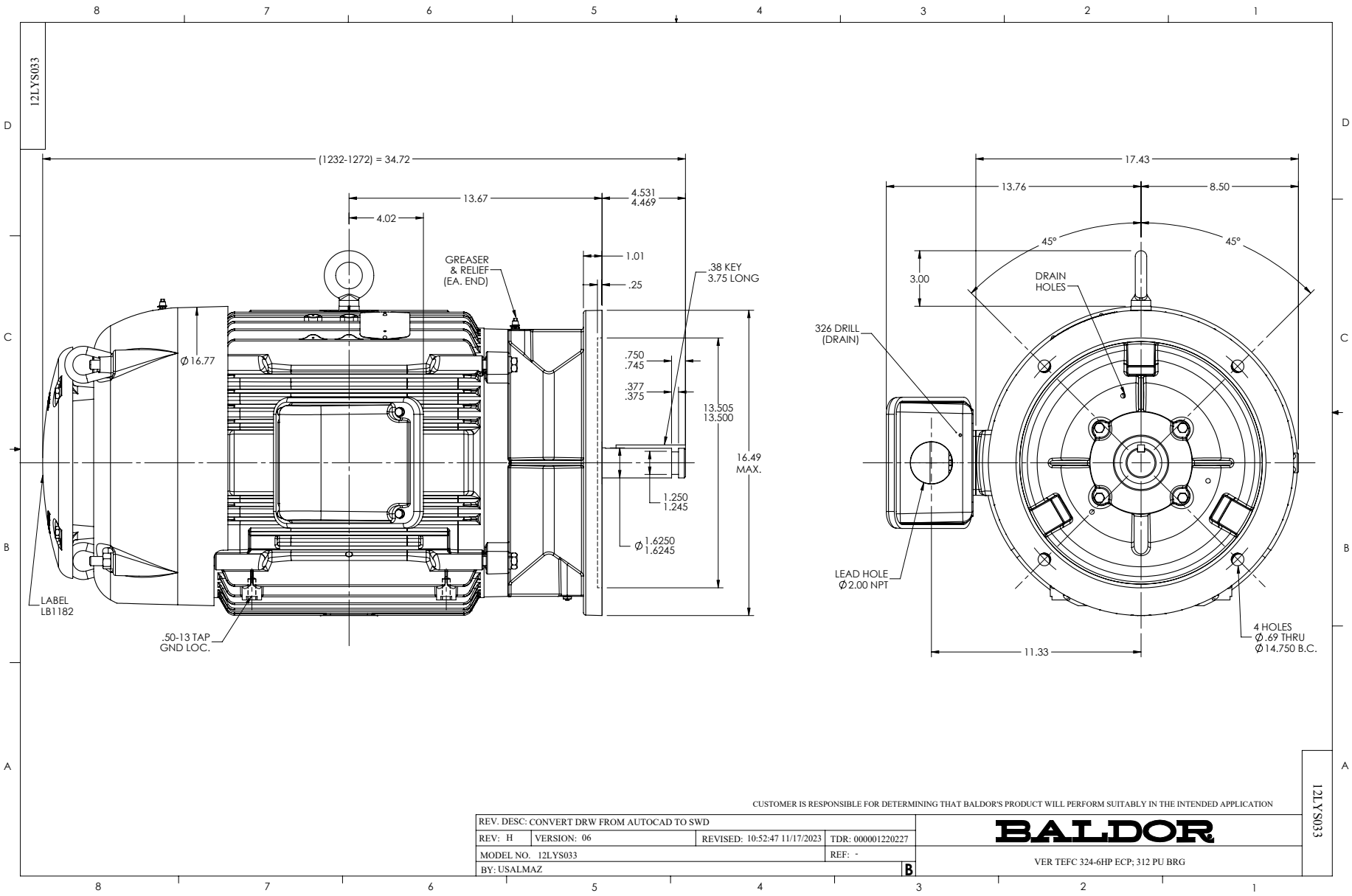
WINDING # 12WGZ279

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

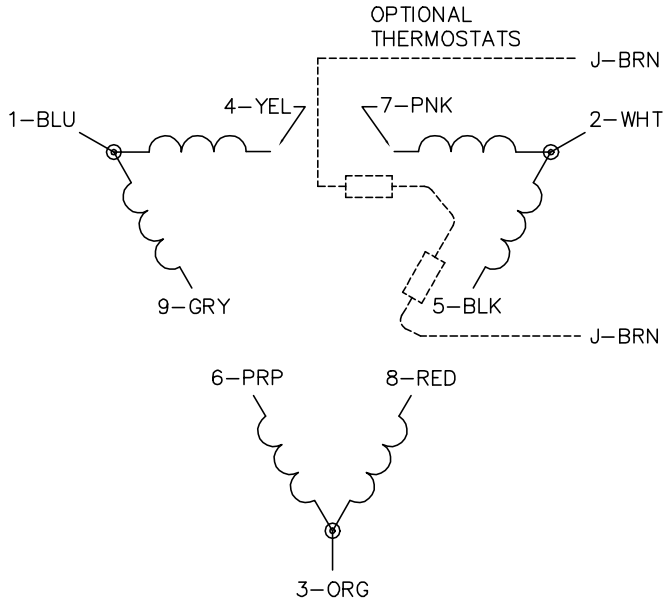
Typical performance - not guaranteed values.

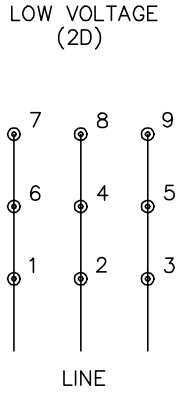
TORQUES(LB-FT): PO=437.3 PU=223.3 LR=255.3 LRA=407.47

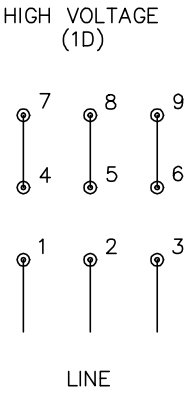



12LYS033
(1232-1272) = 34.72
13.67
4.02
4.531
4.469
1.01
.25
.38 KEY
3.75 LONG
GREASER
& RELIEF
(EA. END)
Ø16.77
.750
.745
.377
.375
13.505
13.500
16.49
MAX.
1.250
1.245
Ø1.6250
1.6245
LABEL
LB1182
.50-13 TAP
GND LOC.
17.43
13.76
8.50
45°
45°
3.00
DRAIN
HOLES
326 DRILL
(DRAIN)
LEAD HOLE
Ø2.00 NPT
4 HOLES
Ø.69 THRU
Ø14.750 B.C.
11.33
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: H
VERSION: 06
REVISED: 10:52:47 11/17/2023
TDR: 000001220227
MODEL NO. 12LYS033
REF: -
BY: USALMAZ
B
BALDOR
VER TEFC 324-6HP ECP; 312 PU BRG
12LYS033

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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