ABB BALDOR RELIANCE

Customer information packet

VLECP4110T

40HP, 1775RPM, 3PH, 60HZ, 324LP, 1254M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	324LP
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	40.000 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
	CSA EEV
	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	0.8
Current @ Voltage	96.000 A @ 230.0 V
	48.000 A @ 460.0 V
	102.000 A @ 208.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	L
Type	AC
Mech. spec.	12K01
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYK001
Eff. date	05-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	12-13-2017

Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.72 IN
Power Factor	82
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Thrust
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
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	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3241

CAT.NO.	VLECP4110T		**P/N**					**ENCLOSURE**	TEFC				
SPEC.	12K001Y276G1	**CC**	010A	**FRAME**	324LP		**S/N**						
HP	40		**CLASS**	F	**HZ**	60	**DES**	A					
RPM	1775		**RPM MAX**	2700	**PH**	3	**KVA-CODE**	H					
VOLT	230/460			**MOTOR WEIGHT**	600								
AMP	96/48		**SER.F.**	1.15	**PF**	82	**ODE BRG**	6311	**DE BRG**	QJ312			
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	94.1		**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	0.8		**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 # 68449
Typical performance - not guaranteed values

Winding: 12WGY276-R036	**Type:** 1254M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			40
Volts			230/460
Full Load Amps			96/48
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.1	**Power Factor**	82
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	118 LB-FT
Start Configuration	direct on line
Breakdown Torque	386 LB-FT
Pull-up Torque	193 LB-FT
Locked-rotor Torque	216 LB-FT
Starting Current	338 A
No-load Current	19.9 A
Line-line Res. @ 25ºC	0.14898 Ω
Temp. Rise @ Rated Load	54°C
Temp. Rise @ S.F. Load	64°C
Locked-rotor Power Factor	27.3
Rotor inertia	7.19 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	69	78	83	85	85	84
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1	94
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1	1773
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8	54.8

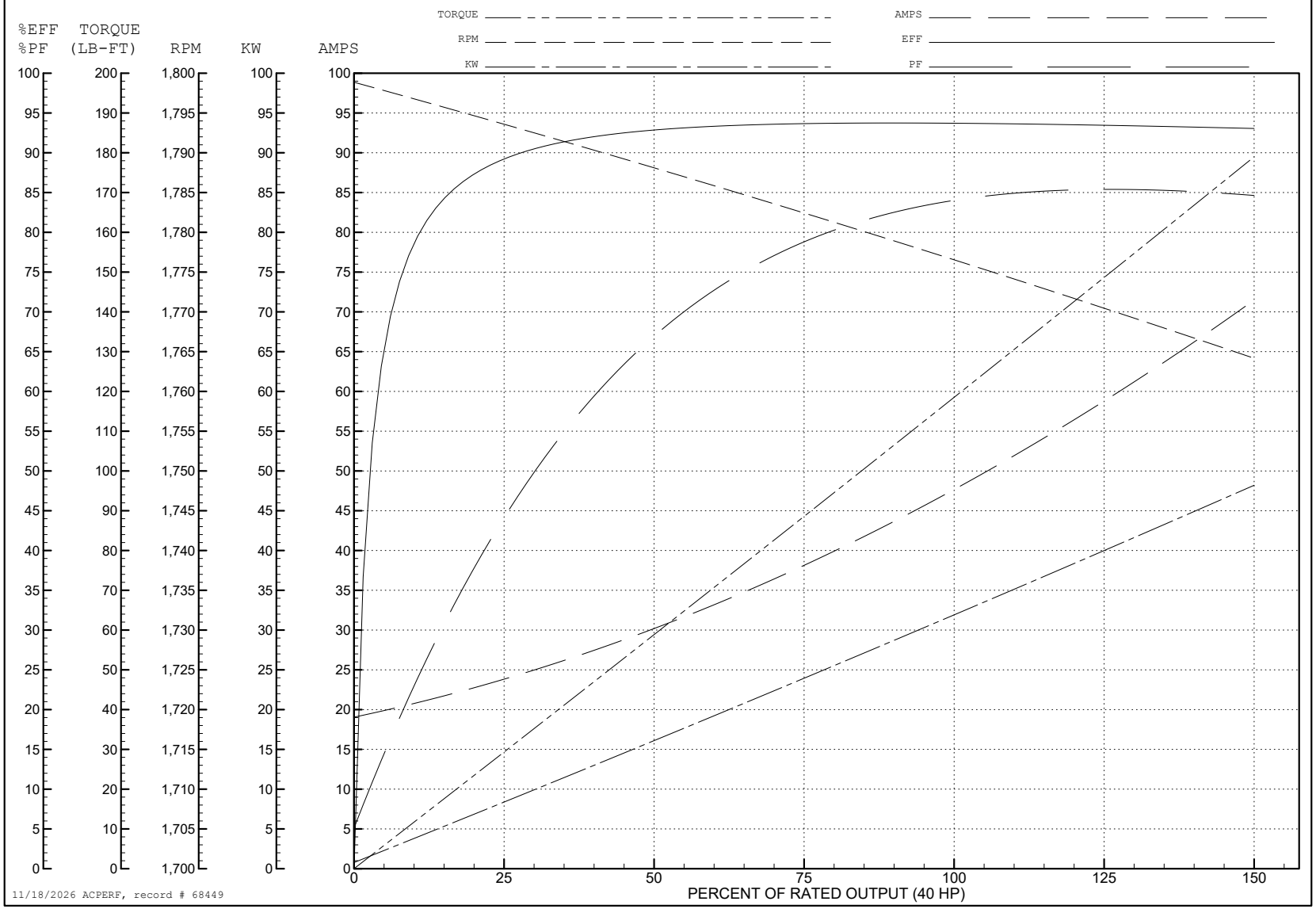
ABB Motors and Mechanical Inc.

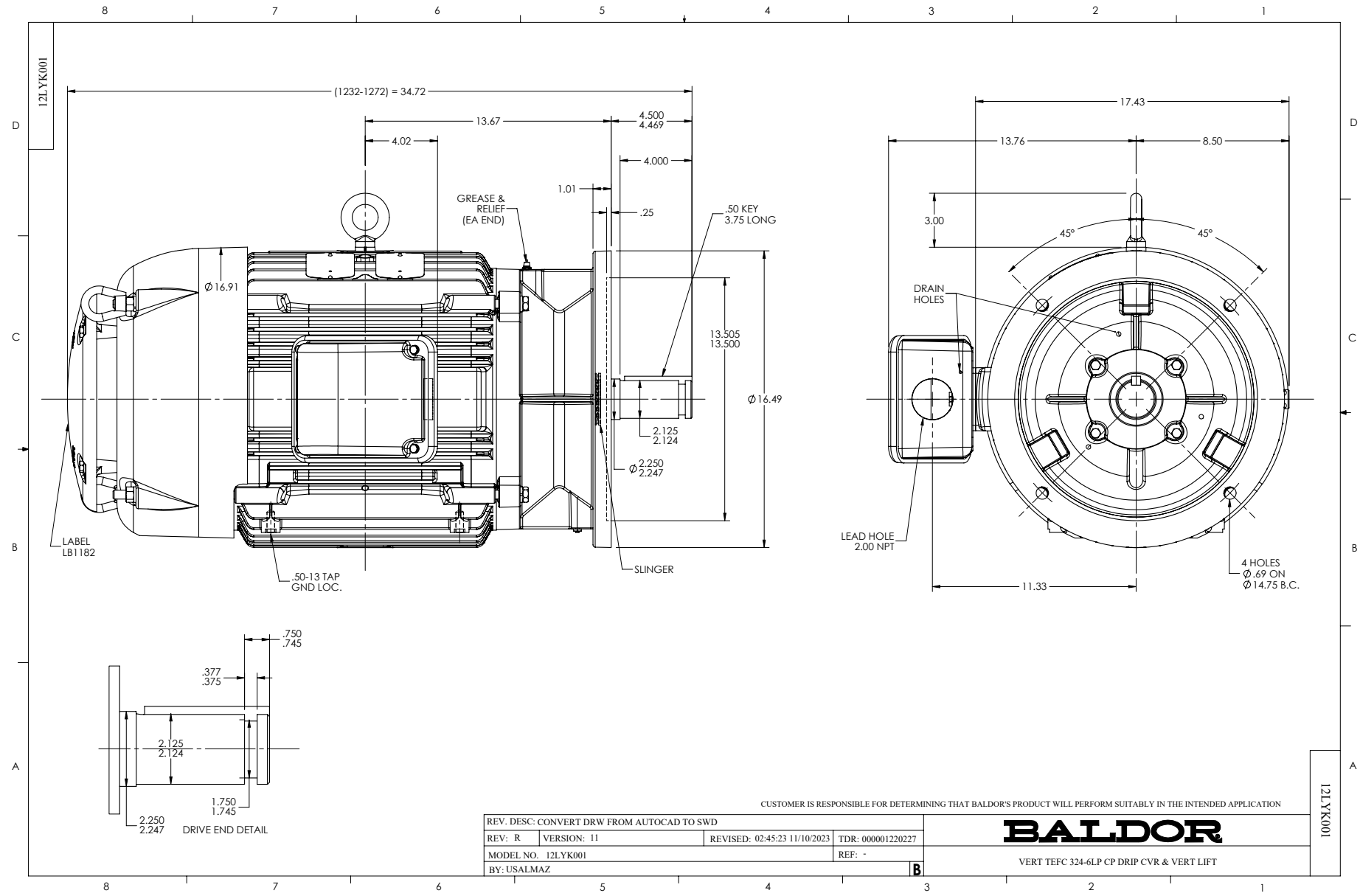
WINDING # 12WGY276

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

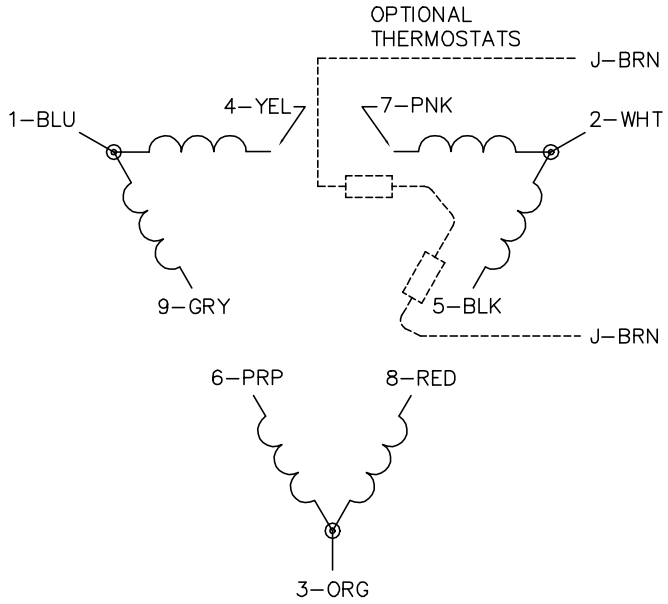
TORQUES(LB-FT): PO=386 PU=193 LR=216 LRA=338

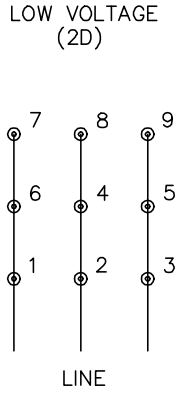
Typical performance - not guaranteed values.

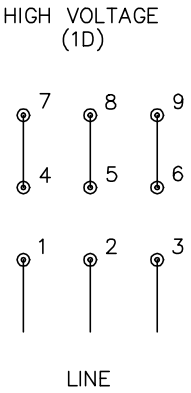



12LYK001
(1232-1272) = 34.72
13.67
4.500
4.469
4.02
4.000
1.01
.25
GREASE & RELIEF (EA END)
.50 KEY 3.75 LONG
Ø16.91
13.505
13.500
Ø16.49
2.125
2.124
Ø2.250
2.247
LABEL LB1182
.50-13 TAP GND LOC.
SLINGER
17.43
13.76
8.50
3.00
45°
45°
DRAIN HOLES
LEAD HOLE 2.00 NPT
4 HOLES Ø.69 ON Ø14.75 B.C.
11.33
.750
.745
.377
.375
2.125
2.124
1.750
1.745
2.250
2.247
DRIVE END DETAIL
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: R
VERSION: 11
REVISED: 02:45:23 11/10/2023
TDR: 000001220227
MODEL NO. 12LYK001
REF: -
BY: USALMAZ
B
BALDOR
VERT TEFC 324-6LP CP DRIP CVR & VERT LIFT
12LYK001

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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