ABB BALDOR RELIANCE

Customer information packet

VPECP4115T

50HP, 1775RPM, 3PH, 60HZ, 326VP, 1272M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	326VP
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	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
	CSA EEV
	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	8
Current @ Voltage	58.000 A @ 460.0 V
	116.000 A @ 230.0 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

Part Detail

Revision	D
Type	AC
Mech. spec.	12K25
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYK025
Eff. date	12-09-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-03-2021

Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	58.0 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 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	34.71 IN
Power Factor	85
Product Family	Chemical Processing (Not DC)
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	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

NP3241

CAT.NO.	VPECP4115T		**P/N**					**ENCLOSURE**	TEFC				
SPEC.	12K025Z279G1	**CC**	010A	**FRAME**	326VP			**S/N**					
HP	50		**CLASS**	F	**HZ**	60	**DES**	A					
RPM	1775		**RPM MAX**	2700		**PH**	3	**KVA-CODE**	H				
VOLT	230/460			**MOTOR WEIGHT**	715								
AMP	116/58		**SER.F.**	1.15	**PF**	85		**ODE BRG**	6311	**DE BRG**	QJ312/7312		
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	94.5			**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	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 # 86839
Preliminary Data Sheet

Winding: 12WGZ279-R006	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	147.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			116/58	**Breakdown Torque**	475 LB-FT
R.P.M.			1775	**Pull-up Torque**	210 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	240 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	413 A
Service Factor (S.F.)			1.15	**No-load Current**	20.8 A
NEMA Nom. Eff.	94.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.114 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
S.F. Amps			132/68	**Temp. Rise @ S.F. Load**	88°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	9.59 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	73	82	86	87	87	87
Efficiency	91.5	94.4	94.8	94.6	94	93.2	94.1
Speed	1794	1788	1782	1776	1769	1761	1770
Line amperes	24.8	33.9	45.3	57.9	71.6	87.5	66.1

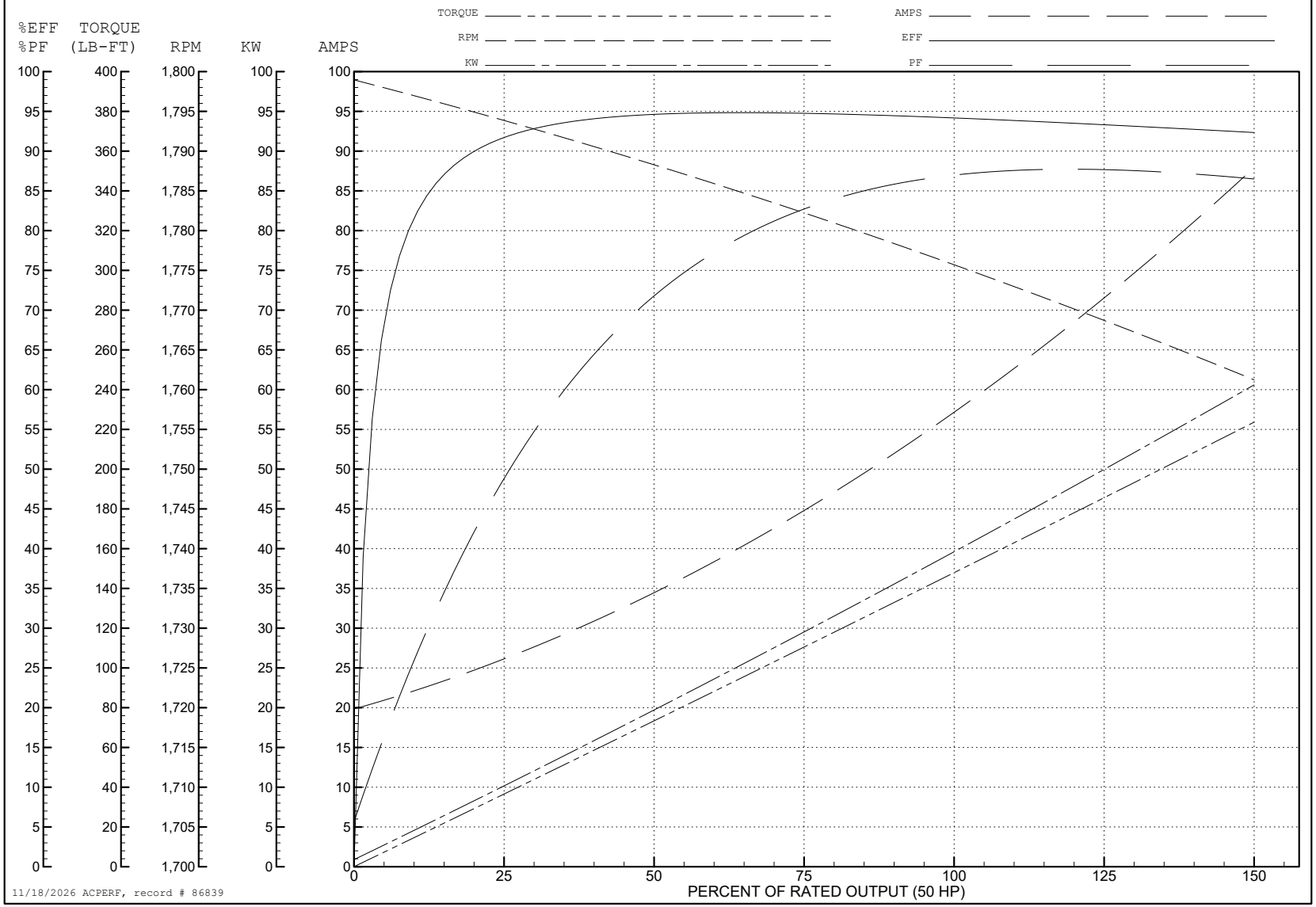
ABB Motors and Mechanical Inc.

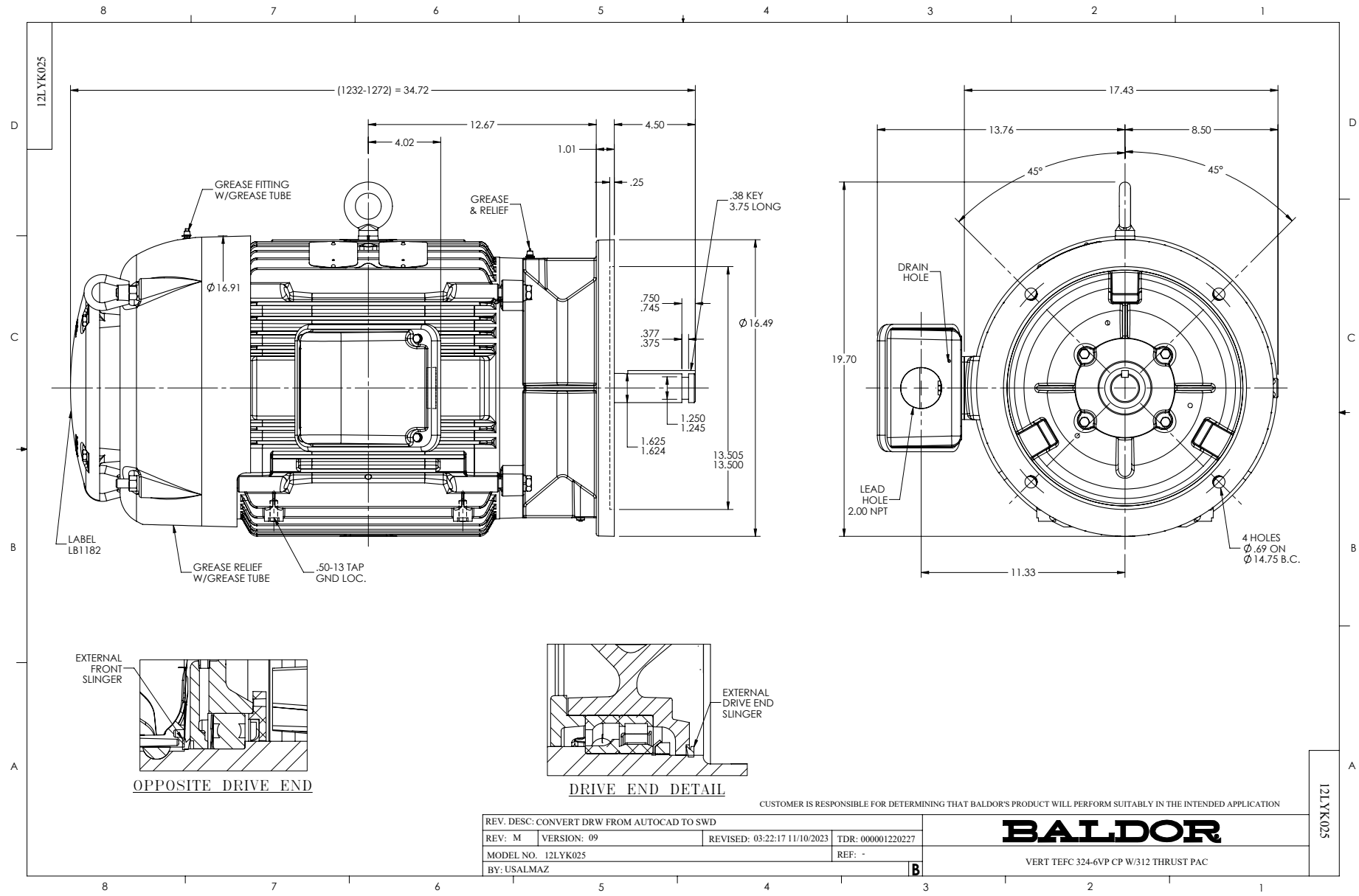
WINDING # 12WGZ279

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

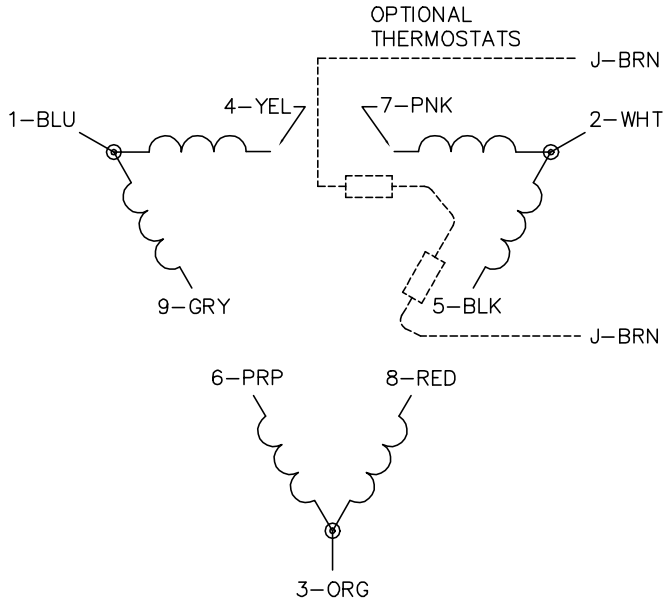
TORQUES(LB-FT): PO=475 PU=210 LR=240 LRA=413

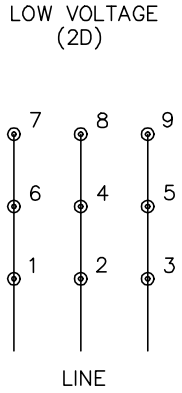
Typical performance - not guaranteed values.

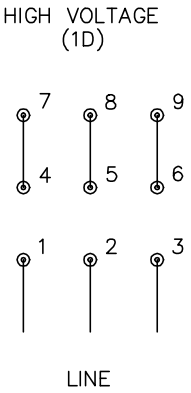



12LYK025
(1232-1272) = 34.72
12.67
4.02
4.50
1.01
.25
GREASE FITTING W/GREASE TUBE
GREASE & RELIEF
.38 KEY 3.75 LONG
Ø16.91
Ø16.49
.750
.745
.377
.375
1.250
1.245
1.625
1.624
13.505
13.500
LABEL LB1182
GREASE RELIEF W/GREASE TUBE
.50-13 TAP GND LOC.
17.43
13.76
8.50
45°
45°
DRAIN HOLE
19.70
LEAD HOLE 2.00 NPT
4 HOLES Ø.69 ON Ø14.75 B.C.
11.33
EXTERNAL FRONT SLINGER
OPPOSITE DRIVE END
EXTERNAL DRIVE END SLINGER
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: M
VERSION: 09
REVISED: 03:22:17 11/10/2023
TDR: 000001220227
MODEL NO. 12LYK025
REF: -
BY: USALMAZ
B
BALDOR
VERT TEFC 324-6VP CP W/312 THRUST PAC
12LYK025

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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