



Customer information packet

VLECP4109T

40HP, 3540RPM, 3PH, 60HZ, 324LP, 1240M, TEFC, F

Class - None

Division - Not Applicable

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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 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	6
Current @ Voltage	45.000 A @ 460.0 V 90.000 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	K
Type	AC
Mech. spec.	12K01
Base	
Status	PRD/A
Elec. spec.	12WGX906
Layout	12LYK001
Eff. date	12-09-2025
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	07-10-2015

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	45.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1240M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	34.72 IN
Power Factor	90
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	3540 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.	VLECP4109T		P/N					ENCLOSURE	TEFC				
SPEC.	12K001X906G1	CC	010A	FRAME	324LP		S/N						
HP	40		CLASS	F	HZ	60	DES	A					
RPM	3540		RPM MAX	5400	PH	3	KVA-CODE	H					
VOLT	230/460		MOTOR WEIGHT	600									
AMP	90/45		SER.F.	1.15	PF	90	ODE BRG	6311	DE BRG	QJ312			
RATING	40C AMB-CONT		NEMA-NOM-EFF	93			GREASE	POLYREX EM					
							INV.TYPE	PWM					
TEMP CODE	T3C		INVERTER-TEMP-CODE	200									
TEMP =	200	C HP FR	60	C HP TO	90								
CT HZ FROM	6		CT HZ TO	60									
HTR-VOLTS		HTR-AMPS		HTR-WATTS			MAX. SPACE HEATER TEMP.			VT HZ FROM	3	VT HZ TO	60

AC Induction Motor Performance Data

Record # 47236

Typical performance - not guaranteed values

Winding: 12WGX906-R011				Type: 1240M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		59.5 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		90/45		Breakdown Torque		236 LB-FT	
R.P.M.		3540		Pull-up Torque		62.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		80.2 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		326 A
Service Factor (S.F.)		1.15		No-load Current		13.6 A	
NEMA Nom. Eff.		93	Power Factor	90	Line-line Res. @ 25°C		0.148 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		81°C	
S.F. Amps				Temp. Rise @ S.F. Load		96°C	
				Locked-rotor Power Factor		21.5	
				Rotor inertia		3.13 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	80	87	90	90	90	90
Efficiency	87.7	92.3	93.4	93.5	93.2	92.6	93.3
Speed	3587	3573	3560	3547	3533	3515	3539
Line amperes	17.7	25.7	35	44.9	55.7	67.7	51.4

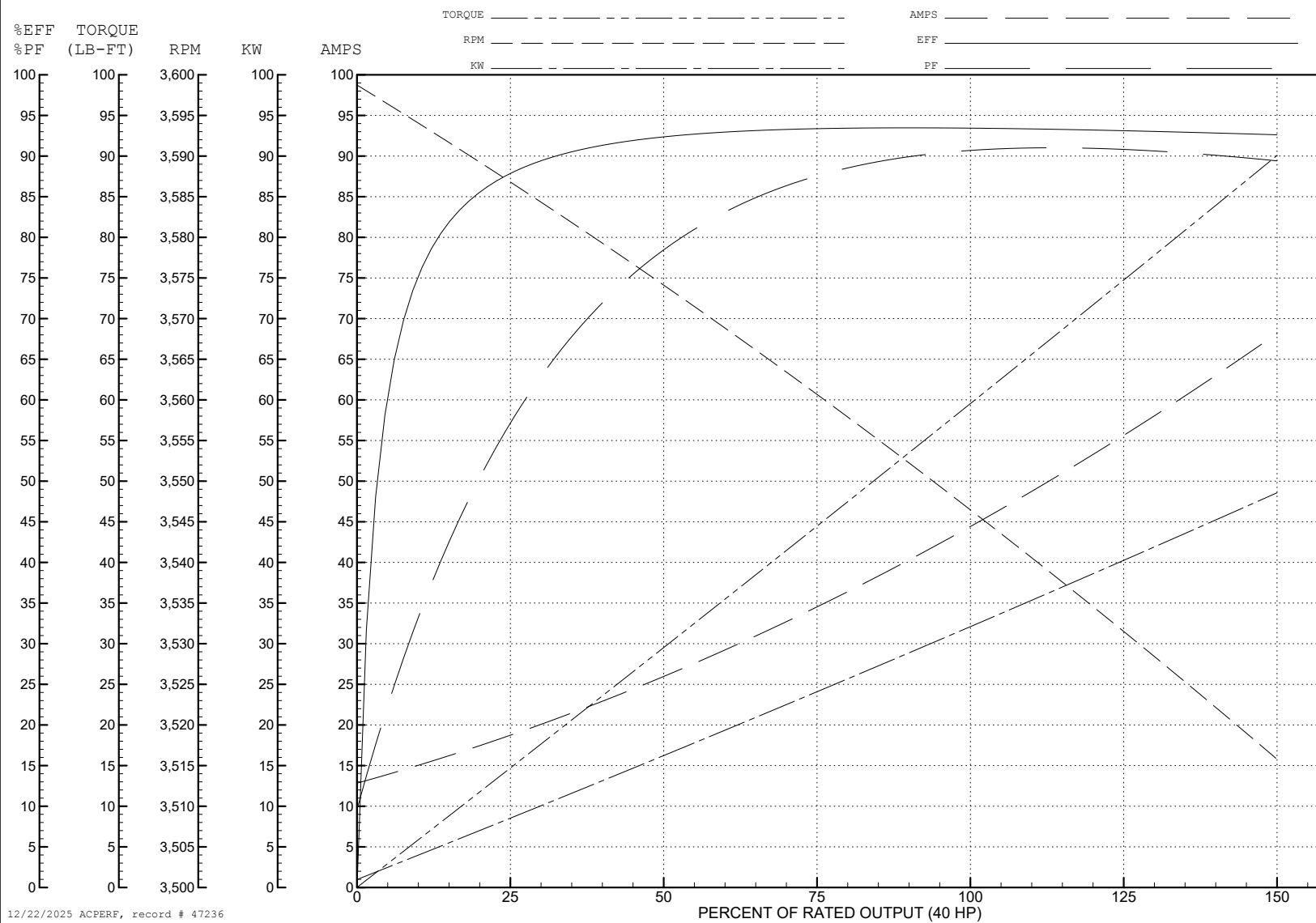
ABB Motors and Mechanical Inc.

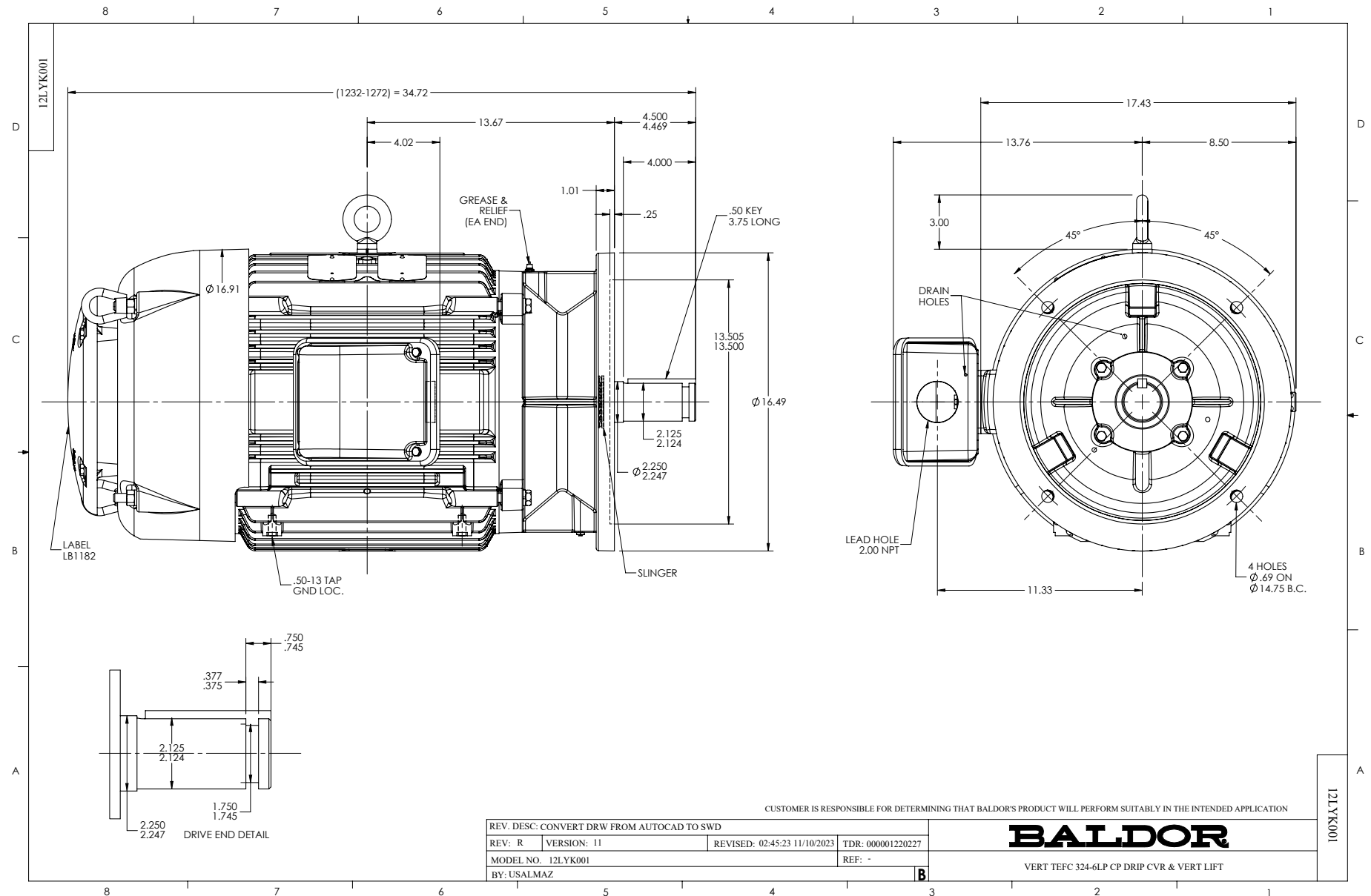
WINDING # 12WGX906

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3540 RPM 460 V 1240M

TORQUES (LB-FT): PO=236 PU=62.9 LR=80.2 LRA=326





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.

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: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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