ABB BALDOR RELIANCE

Customer information packet

VLECP84109T-4

56M 2P TEFC VER 324LP IEEE 841 32-8 DRIP
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	324LP
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM UR CCSA US
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	44.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3

Part Detail

Revision	H
Type	AC
Mech. spec.	12H444
Base	
Status	PRD/A
Elec. spec.	12WGY667
Layout	12LYH444
Eff. date	10-16-2025
CD Diagram	CD0006
Poles	02
Leads	3#8
Proprietary	False
Created date	03-25-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	44.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1256M
Mounting Arrangement	V1
Number of Poles	2
Overall Length	38.56 IN
Power Factor	91
Product Family	Chem Process S/P 32-8 IEEE 841
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	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3545 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4332

CAT.NO.	VLECP84109T-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	12H444Y667G3		**CC**	010A	**FRAME**	324LP		**S/N**				
HP	40			**CLASS**	F	**HZ**	60	**ODE BRG**	7309	**DE BRG**	6312	
RPM	3545	**RPM MAX**	5400	**PH**	3	**DES**	B	**D.E. BRG.**	60BC03X30X			
VOLT	460			**KVA-CODE**	G			**O.D.E. BRG.**	45BT03X30X			
AMP	44			**MOTOR WEIGHT**	607	**GREASE**	POLYREX EM					
RATING	40C AMB-CONT			**MAX. KVAR**	4	**BLANK**						
NEMA-NOM-EFF	92.4	**# OF ROTOR BARS**	28	**SER.F.**	1.15	**IP**	56					
G.MIN.EFF	91	**# OF STATOR SLOTS**	36	**PF**	91	**INV.TYPE**	PWM					
TEMP CODE	T3	**INVERTER-TEMP-CODE**	200									
TEMP =	200	**C HP FR**	60	**C HP TO**	90							
CT HZ FROM	0-	**CT HZ TO**	60									
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	0-	**VT HZ TO**	60	

AC Induction Motor Performance Data
Record # 47225
Typical performance - not guaranteed values

Winding: 12WGY667-R012	**Type:** 1256M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			40	**Full Load Torque**	59.1 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			44	**Breakdown Torque**	194 LB-FT
R.P.M.			3545	**Pull-up Torque**	63.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	80.9 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	284 A
Service Factor (S.F.)			1.15	**No-load Current**	9.79 A
NEMA Nom. Eff.	92.4	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.154 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	67°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	20.5
				Rotor inertia	4.38 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	86	91	91	91	90	91
Efficiency	86.9	91.6	92.5	92.4	91.9	91	92.4
Speed	3588	3575	3561	3545	3529	3510	3526
Line amperes	15.1	23.7	33.6	44.3	56	68.5	51.2

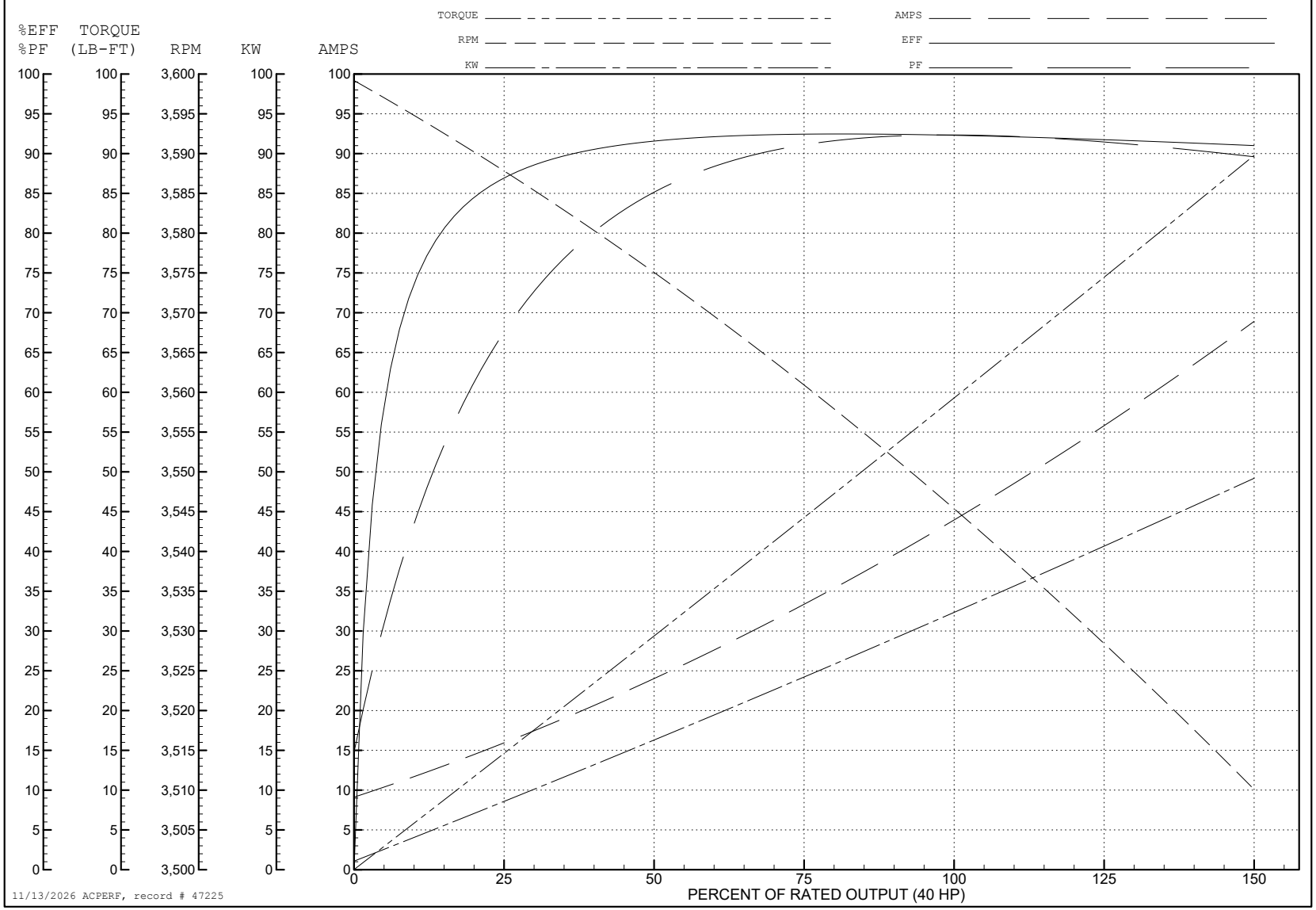
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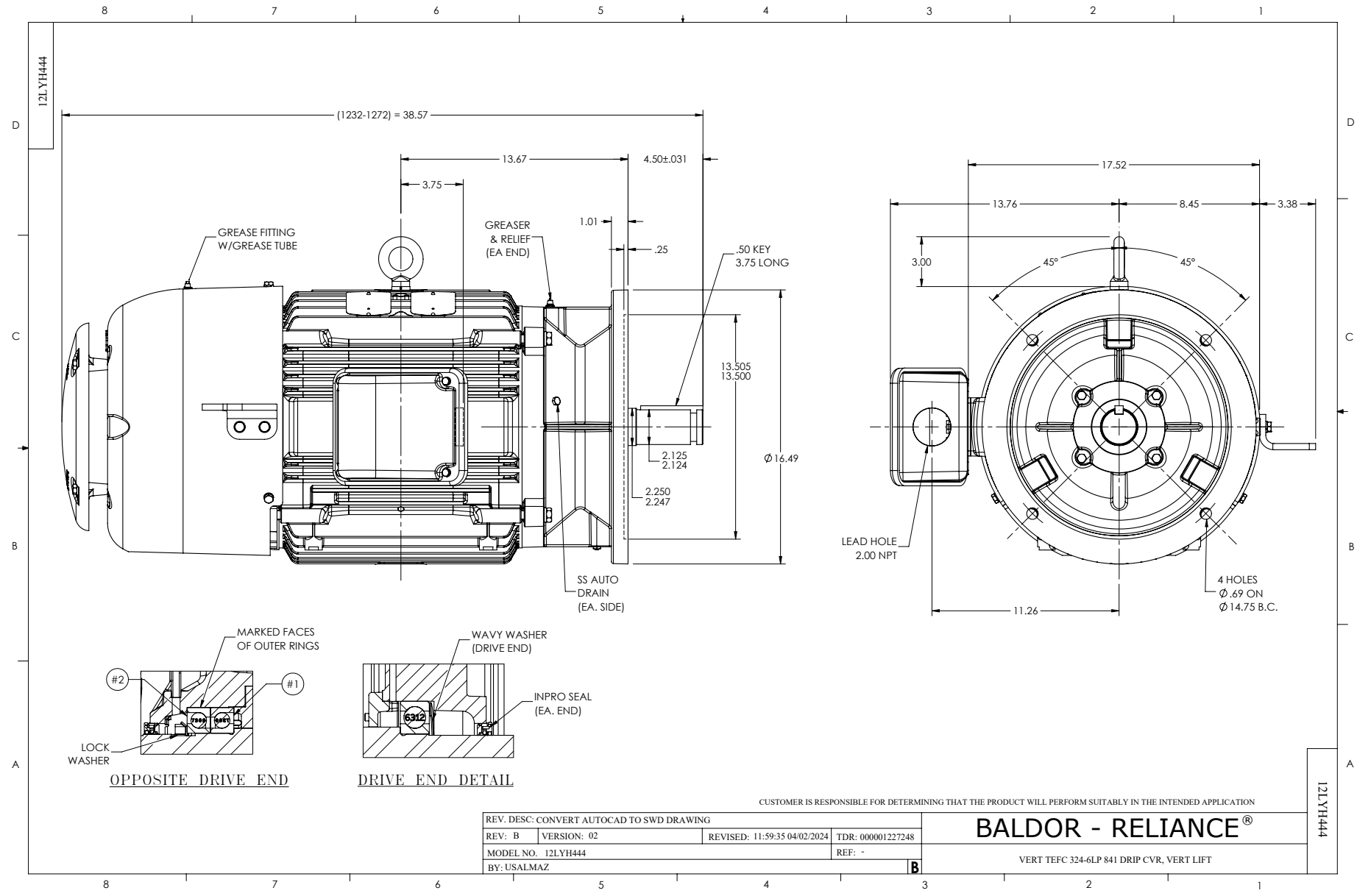
WINDING # 12WGY667

40 HP 3 PH 60 HZ 3545 RPM 460 V 1256M

Typical performance - not guaranteed values.

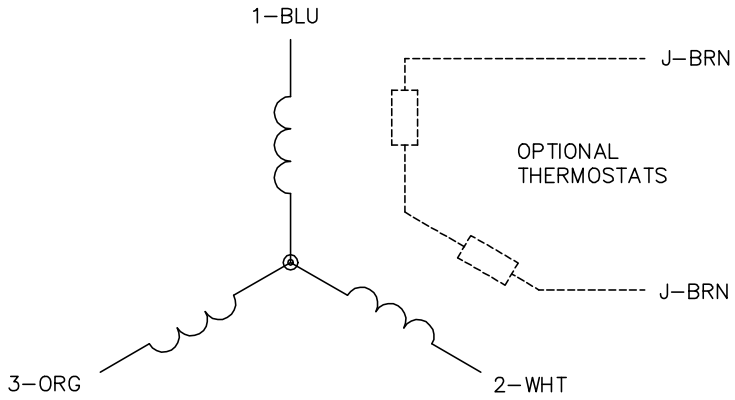
TORQUES(LB-FT): PO=194 PU=63.8 LR=80.9 LRA=284

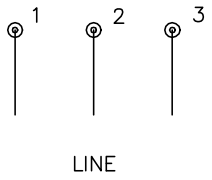



12LYH444
(1232-1272) = 38.57
13.67
4.50±.031
3.75
GREASE FITTING W/GREASE TUBE
GREASER & RELIEF (EA END)
1.01
.25
.50 KEY 3.75 LONG
13.505
13.500
2.125
2.124
2.250
2.247
Ø16.49
SS AUTO DRAIN (EA. SIDE)
17.52
13.76
8.45
3.38
3.00
45°
45°
LEAD HOLE 2.00 NPT
4 HOLES Ø.69 ON Ø14.75 B.C.
11.26
MARKED FACES OF OUTER RINGS
#2
#1
LOCK WASHER
OPPOSITE DRIVE END
WAVY WASHER (DRIVE END)
INPRO SEAL (EA. END)
6312
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: B
VERSION: 02
REVISED: 11:59:35 04/02/2024
TDR: 000001227248
MODEL NO. 12LYH444
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
VERT TEFC 324-6LP 841 DRIP CVR, VERT LIFT
12LYH444

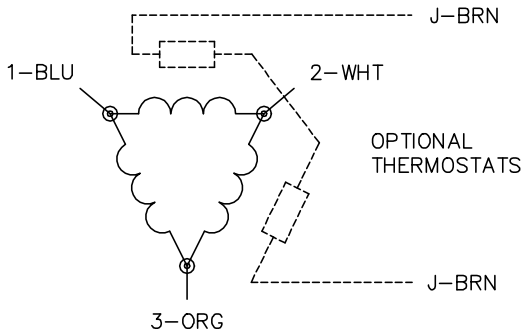
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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