ABB BALDOR RELIANCE

Customer information packet

VPECP84114T-4

50HP, 3530RPM, 3PH, 60HZ, 326VP, 1266M, TEFC, V
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	326LP
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	NEMA PREMIUM
	CSA EEV
	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	55.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY668
Layout	12LY-000-261
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	02
Leads	3#8
Proprietary	False
Created date	07-09-2019

High Voltage Full Load Amps	55.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	F
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1266M
Mounting Arrangement	V1
Number of Poles	2
Overall Length	38.56 IN
Power Factor	92
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	P-Base
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3530 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

NP4332

CAT.NO.	VPECP84114T-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	12-0000-0805			**CC**	010A	**FRAME**	326VP	**S/N**				
HP	50			**CLASS**	F	**HZ**	60	**ODE BRG**	SPL	**DE BRG**	6312	
RPM	3530	**RPM MAX**	5400	**PH**	3	**DES**	B	**D.E. BRG.**	60BC03X30X			
VOLT	460			**KVA-CODE**	F			**O.D.E. BRG.**	BA2B459309			
AMP	55			**MOTOR WEIGHT**	784	**GREASE**	POLYREX EM					
RATING	40C AMB-CONT			**MAX. KVAR**	3.9	**BLANK**						
NEMA-NOM-EFF	93	**# OF ROTOR BARS**	28	**SER.F.**	1.15	**IP**	56					
G.MIN.EFF	91.7	**# OF STATOR SLOTS**	36	**PF**	92	**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 # 47226
Typical performance - not guaranteed values

Winding: 12WGY668-R019	**Type:** 1266M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			50	**Full Load Torque**	74.5 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			55	**Breakdown Torque**	223 LB-FT
R.P.M.			3530	**Pull-up Torque**	79.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	99 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	350 A
Service Factor (S.F.)			1.15	**No-load Current**	11 A
NEMA Nom. Eff.	93	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.113 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	98°C
				Locked-rotor Power Factor	20.1
				Rotor inertia	5.16 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	75	87	91	91	92	90	92
Efficiency	90.9	93.3	93.6	92.9	92	90.6	92.4
Speed	3583	3566	3549	3530	3510	3486	3518
Line amperes	17.7	28.8	41.5	55.2	69.5	85.6	63.8

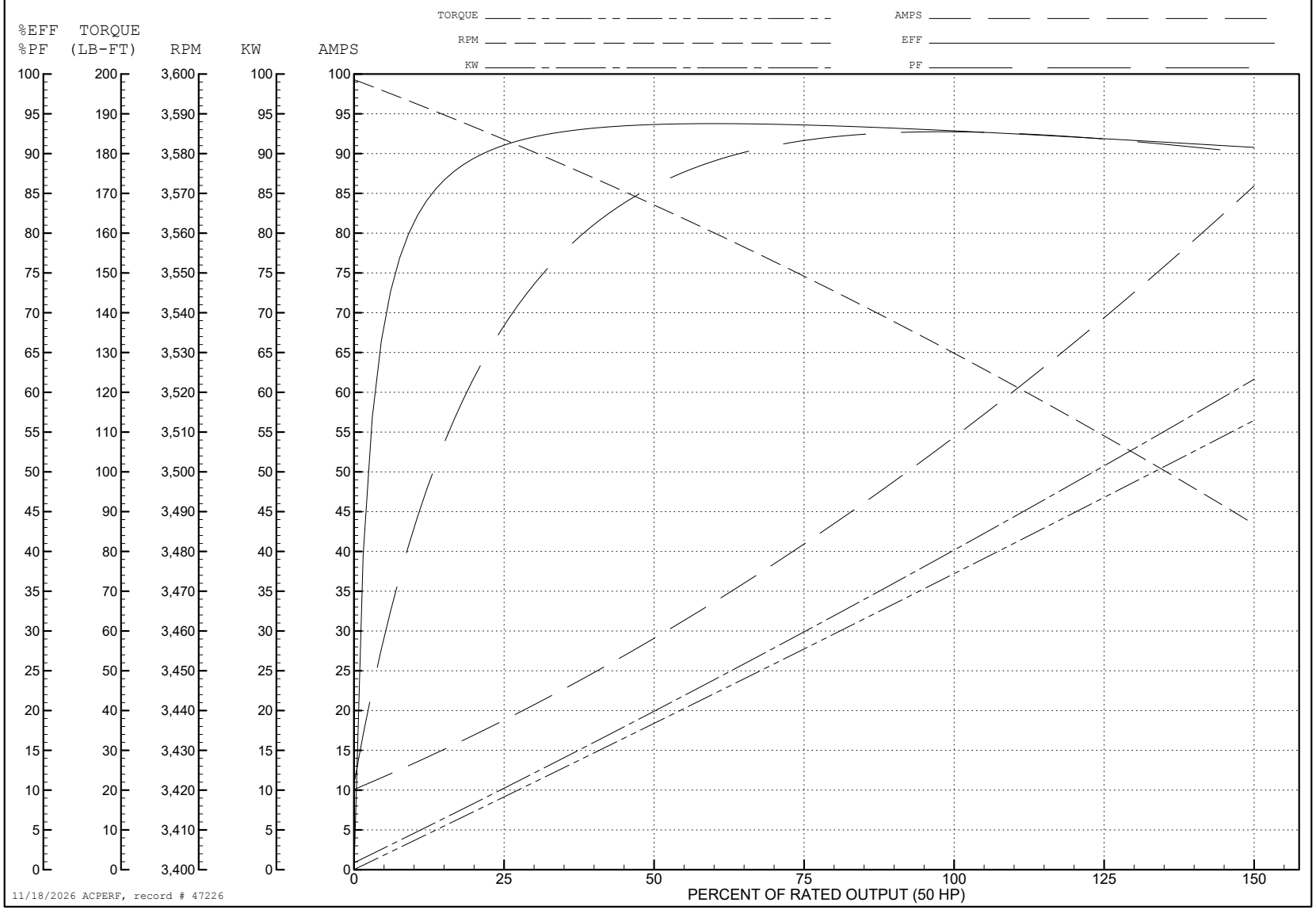
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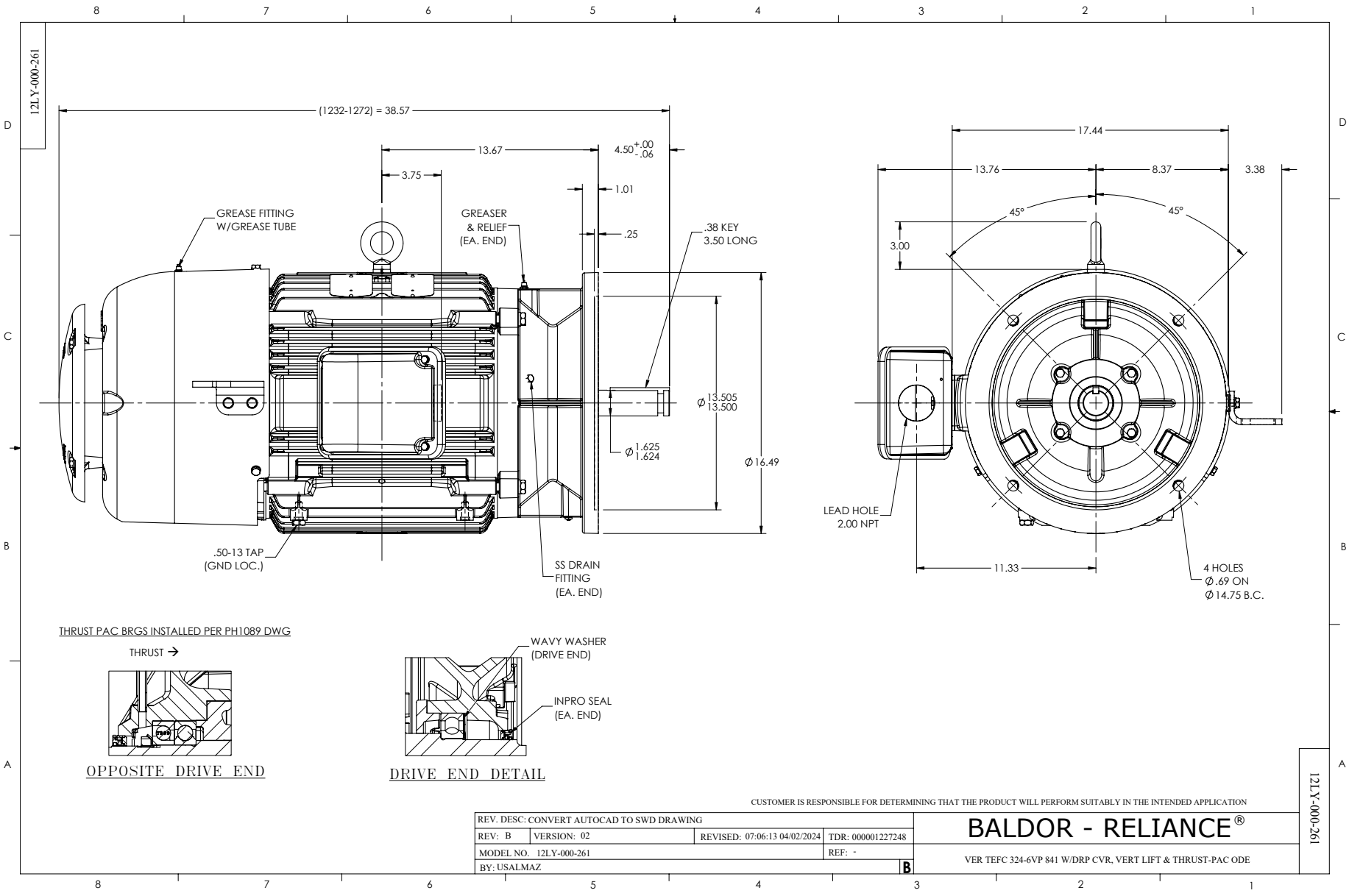
WINDING # 12WGY668

50 HP 3 PH 60 HZ 3530 RPM 460 V 1266M

Typical performance - not guaranteed values.

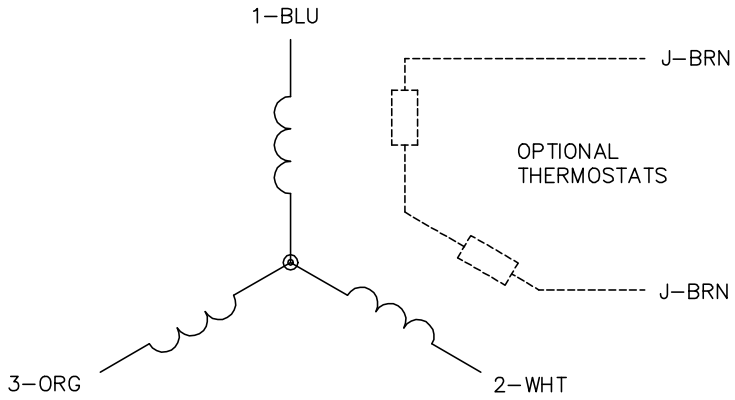
TORQUES(LB-FT): PO=223 PU=79.4 LR=99 LRA=350

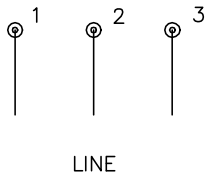



12LY-000-261
(1232-1272) = 38.57
13.67
3.75
4.50 +.00 -.06
1.01
.25
.38 KEY
3.50 LONG
GREASE FITTING
W/GREASE TUBE
GREASER
& RELIEF
(EA. END)
Ø 13.505
13.500
Ø 1.625
1.624
Ø16.49
.50-13 TAP
(GND LOC.)
SS DRAIN
FITTING
(EA. END)
17.44
13.76
8.37
3.38
45°
45°
3.00
LEAD HOLE
2.00 NPT
11.33
4 HOLES
Ø.69 ON
Ø14.75 B.C.
THRUST PAC BRGS INSTALLED PER PH1089 DWG
THRUST →
OPPOSITE DRIVE END
WAVY WASHER
(DRIVE END)
INPRO SEAL
(EA. END)
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: 07:06:13 04/02/2024
TDR: 000001227248
MODEL NO. 12LY-000-261
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
VER TEFC 324-6VP 841 W/DRP CVR, VERT LIFT & THRUST-PAC ODE
12LY-000-261

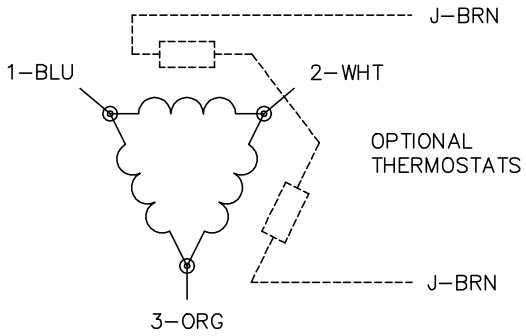
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1