

ABB BALDOR RELIANCE III

Customer information packet

VPECP84114T-4

50HP, 3530RPM, 3PH, 60HZ, 326VP, 1266M, TEFC, V

Class - CLI GP A,B,C,D

Division - Division II

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. @ 25°C	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

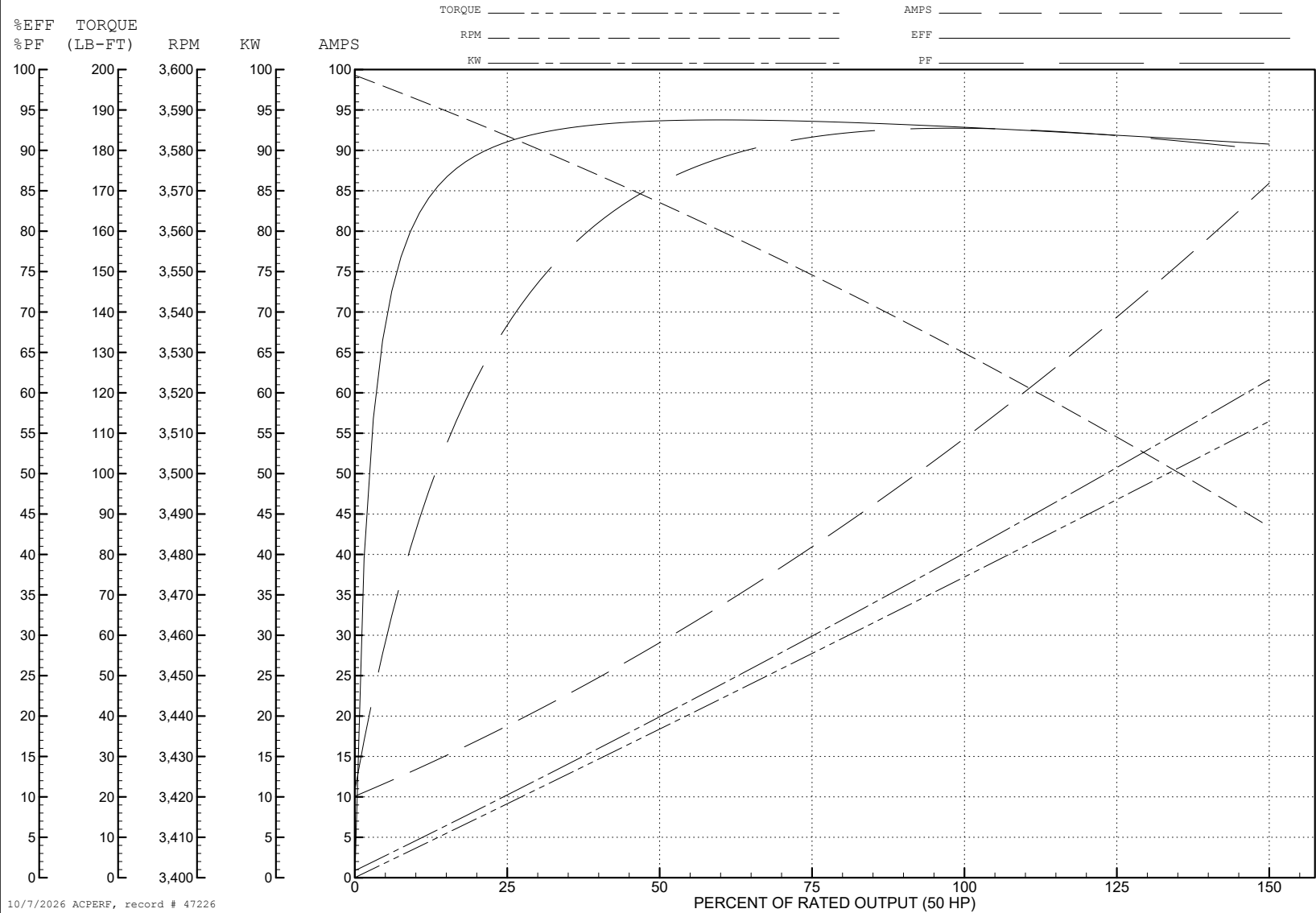
ABB Motors and Mechanical Inc.

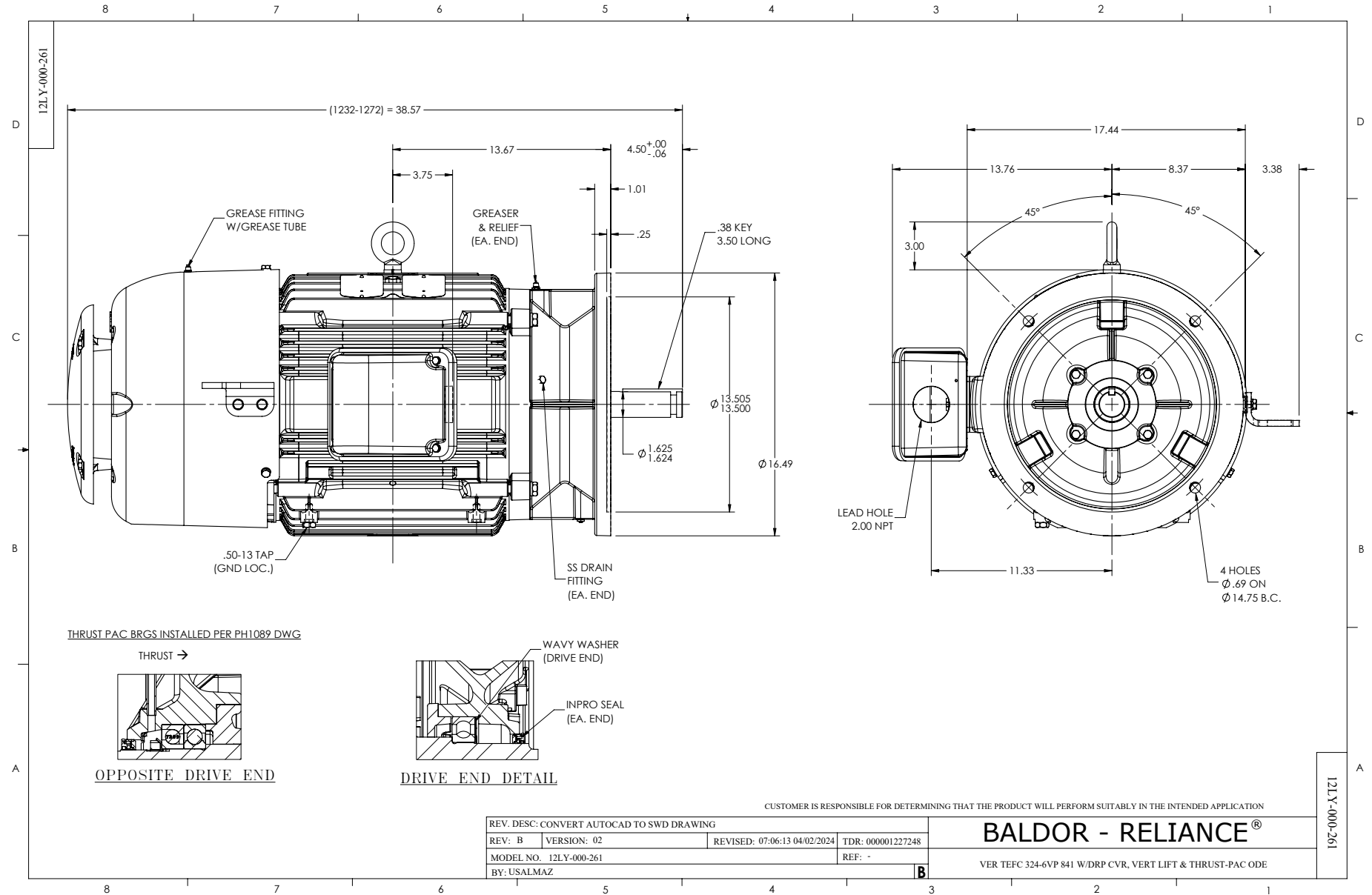
WINDING # 12WGY668

Typical performance - not guaranteed values.

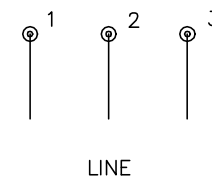
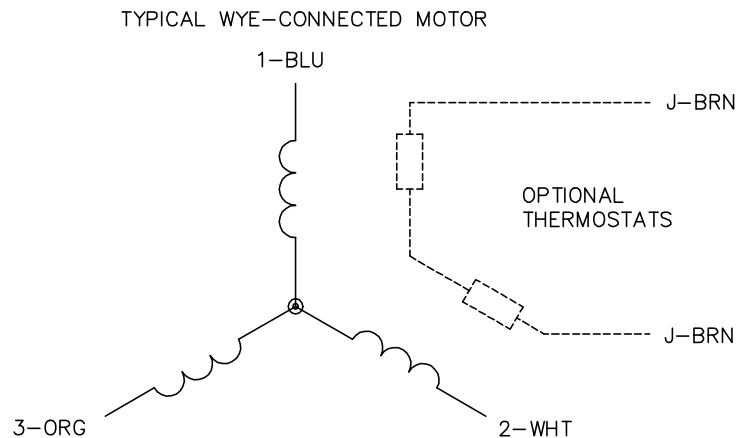
50 HP 3 PH 60 HZ 3530 RPM 460 V 1266M

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





CD0006


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: ENBRIRO

MTL: —


BALDOR - RELIANCE®

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

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