ABB BALDOR RELIANCE

Customer information packet

CECP84114T-4

50HP, 3530RPM, 3PH, 60HZ, 326TSC, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	326TSC
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	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	0-
Current @ Voltage	55.000 A @ 460.0 V
Design Code	B
Drip Cover	No 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

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY668
Layout	12LY-000-141
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	02
Leads	3#8
Proprietary	False
Created date	01-14-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	55.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1266M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	29.24 IN
Power Factor	92
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 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.	CECP84114T-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	12-0000-0424		**CC**	010A	**FRAME**	326TSC		**S/N**				
HP	50			**CLASS**	F	**HZ**	60	**ODE BRG**	6312	**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.**	60BC03X30X			
AMP	55			**MOTOR WEIGHT**	670	**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			
Rated Output (HP)			50
Volts			460
Full Load Amps			55
R.P.M.			3530
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	F
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	92
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: Single Voltage Motor	
Full Load Torque	74.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	223 LB-FT
Pull-up Torque	79.4 LB-FT
Locked-rotor Torque	99 LB-FT
Starting Current	350 A
No-load Current	11 A
Line-line Res. @ 25ºC	0.113 Ω
Temp. Rise @ Rated Load	78°C
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

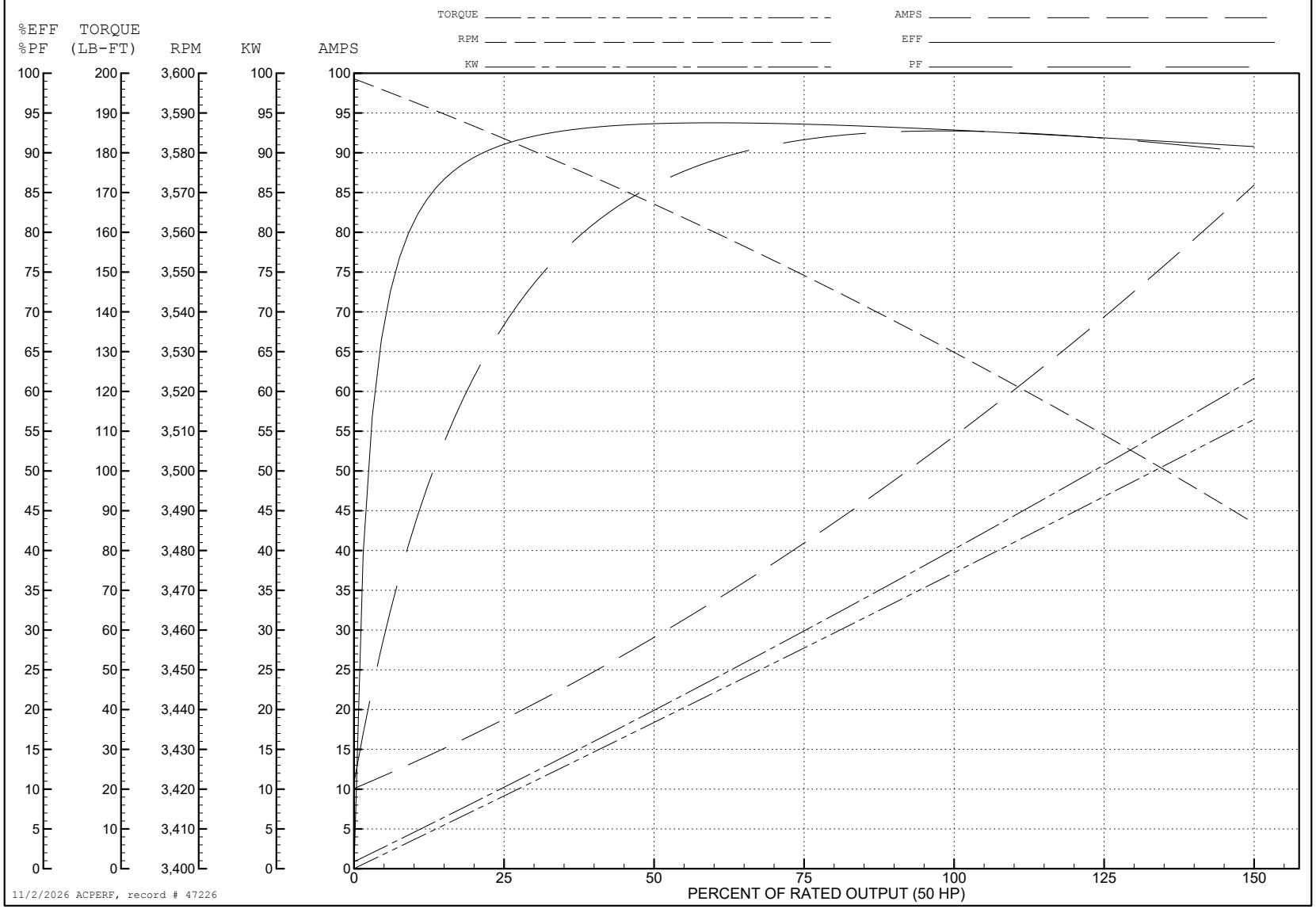
ABB Motors and Mechanical Inc.

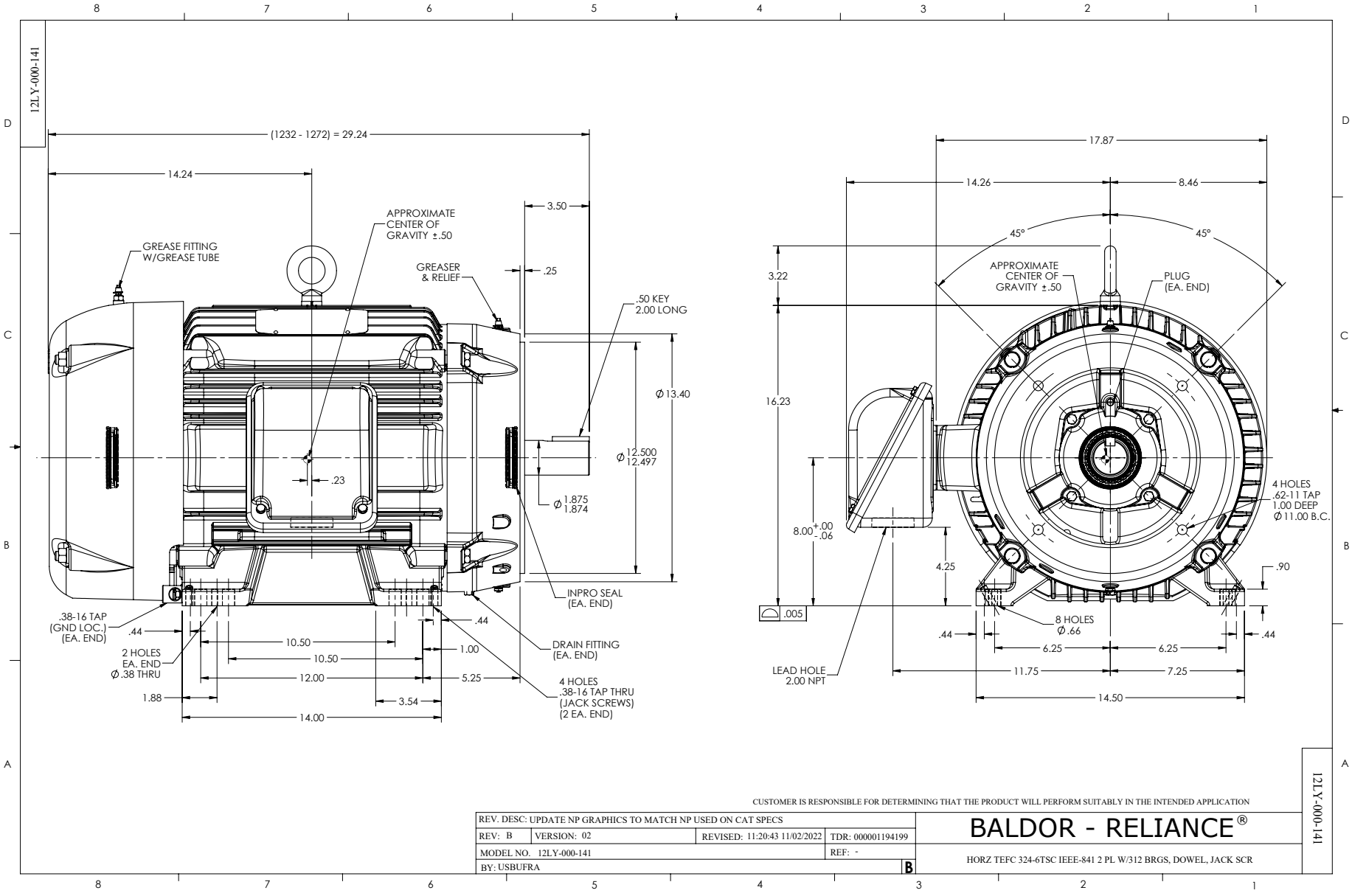
WINDING # 12WGY668

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

Typical performance - not guaranteed values.

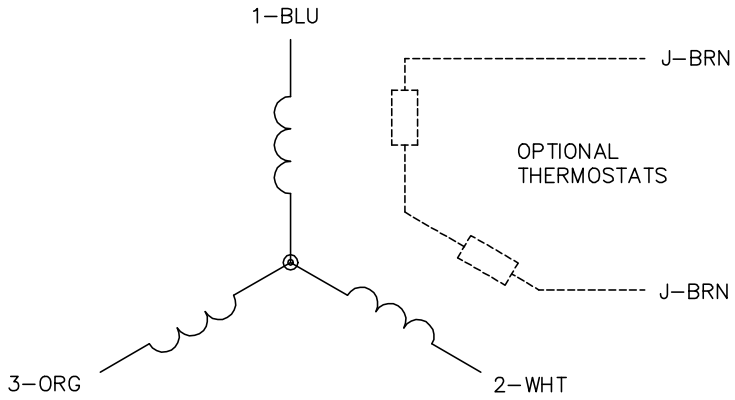
TORQUES(LB-FT): PO=223 PU=79.4 LR=99 LRA=350

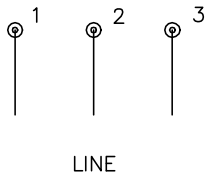



12LY-000-141
(1232 - 1272) = 29.24
14.24
3.50
APPROXIMATE CENTER OF GRAVITY ±.50
GREASE FITTING W/GREASE TUBE
GREASER & RELIEF
.25
.50 KEY 2.00 LONG
Ø13.40
Ø12.500 12.497
Ø1.875 1.874
.23
INPRO SEAL (EA. END)
.38-16 TAP (GND LOC.) (EA. END)
.44
10.50
10.50
12.00
1.88
3.54
14.00
2 HOLES EA. END Ø.38 THRU
1.00
5.25
.44
DRAIN FITTING (EA. END)
4 HOLES .38-16 TAP THRU (JACK SCREWS) (2 EA. END)
17.87
14.26
8.46
45°
45°
APPROXIMATE CENTER OF GRAVITY ±.50
PLUG (EA. END)
3.22
16.23
8.00 +.00 -.06
4.25
.005
4 HOLES .62-11 TAP 1.00 DEEP Ø11.00 B.C.
.90
8 HOLES Ø.66
.44
6.25
6.25
.44
LEAD HOLE 2.00 NPT
11.75
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: B
VERSION: 02
REVISED: 11:20:43 11/02/2022
TDR: 000001194199
MODEL NO. 12LY-000-141
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 324-6TSC IEEE-841 2 PL W/312 BRGS, DOWEL, JACK SCR
12LY-000-141

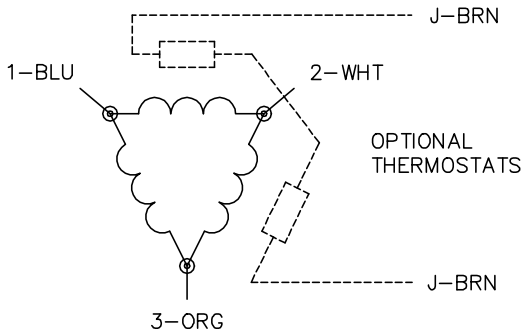
CD0006

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: –		

BALDOR - RELIANCE®

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

SH 1 of 1