ABB BALDOR RELIANCE

Customer information packet

CECP4114T

52M 2P TEFC HOR 326TSC CHEM SERV 32-6 SE
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
	230.0 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	6
Current @ Voltage	56.000 A @ 460.0 V
	122.000 A @ 208.0 V
	112.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	F
Type	AC
Mech. spec.	12F981
Base	
Status	PRD/A
Elec. spec.	12WGY291
Layout	12LYF981
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	05-29-2018

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	56.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1252M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	28.84 IN
Power Factor	90
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
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

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3241

CAT.NO.	CECP4114T		**P/N**					**ENCLOSURE**	TEFC				
SPEC.	12F981Y291G1	**CC**	010A	**FRAME**	326TSC		**S/N**						
HP	50	**CLASS**	F	**HZ**	60	**DES**	A						
RPM	3540	**RPM MAX**	5400	**PH**	3	**KVA-CODE**	H						
VOLT	230/460	**MOTOR WEIGHT**	639										
AMP	112/56	**SER.F.**	1.15	**PF**	90	**ODE BRG**	6312	**DE BRG**	6312				
RATING	40C AMB-CONT	**NEMA-NOM-EFF**	93	**GREASE**	POLYREX EM								
				INV.TYPE	PWM								
TEMP CODE	T3	**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 # 70997
Typical performance - not guaranteed values

Winding: 12WGY291-R044	**Type:** 1252M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			50
Volts			230/460
Full Load Amps			112/56
R.P.M.			3540
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	90
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	74.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	292 LB-FT
Pull-up Torque	112 LB-FT
Locked-rotor Torque	139 LB-FT
Starting Current	408 A
No-load Current	14.9 A
Line-line Res. @ 25ºC	0.11257 Ω
Temp. Rise @ Rated Load	77°C
Temp. Rise @ S.F. Load	95°C
Locked-rotor Power Factor	20.9
Rotor inertia	4.07 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	82	88	90	91	90	91
Efficiency	91.1	93.8	94.2	93.9	93.2	92.3	93.5
Speed	3584.1	3571.8	3558.2	3544.1	3528.2	3511.2	3535
Line amperes	20.4	30.8	42.9	55.8	69.5	84.6	64

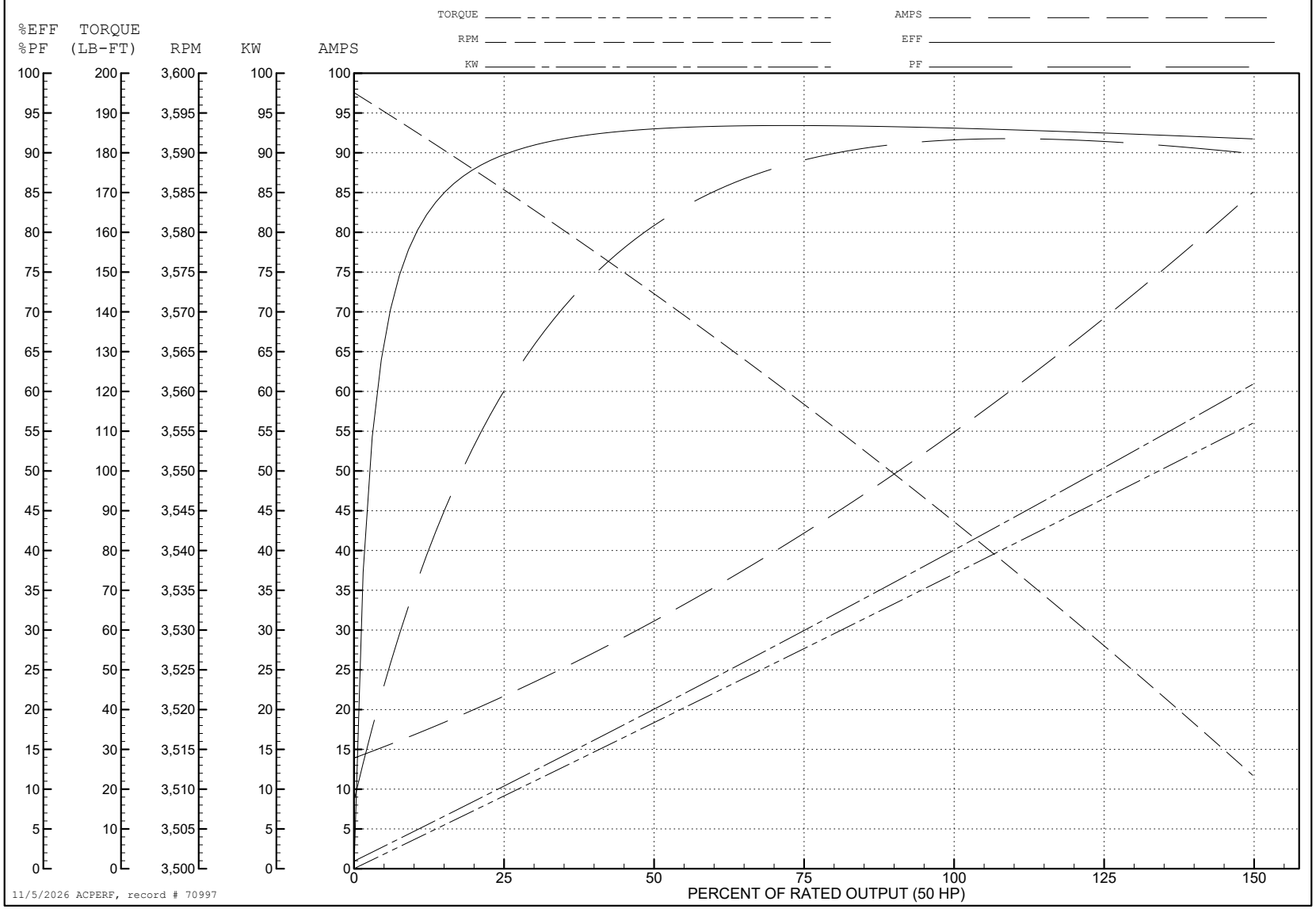
ABB Motors and Mechanical Inc.

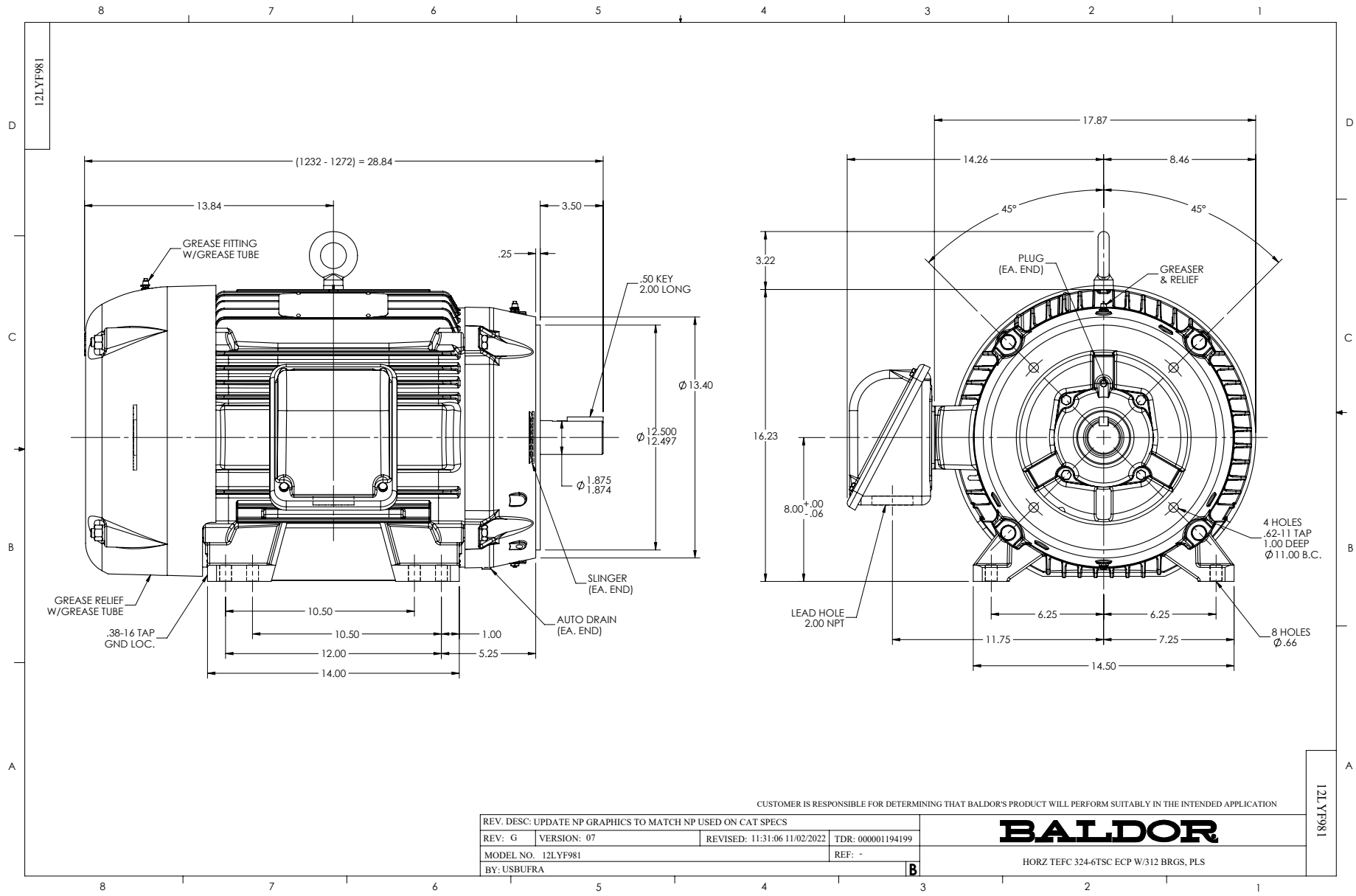
WINDING # 12WGY291

50 HP 3 PH 60 HZ 3540 RPM 460 V 1252M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=292 PU=112 LR=139 LRA=408





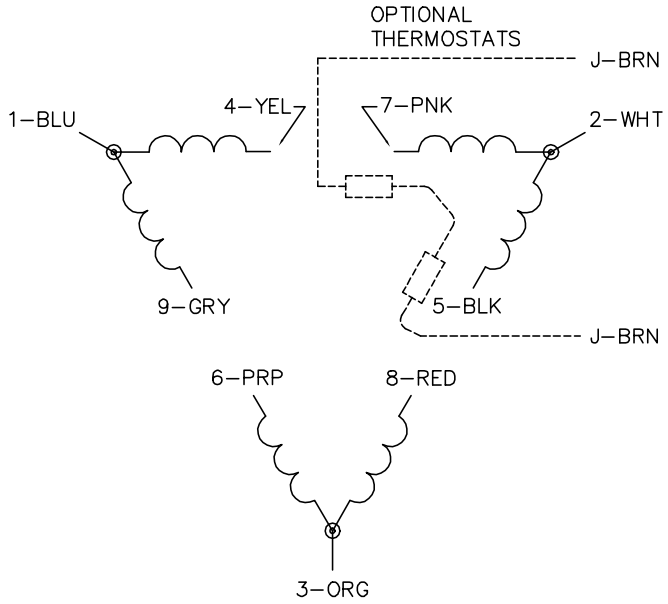
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

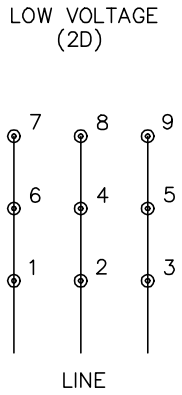
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS			
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MODEL NO. 12LYF981			REF: -
BY: USBUFRA			B

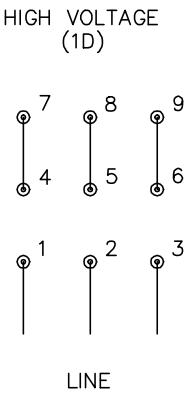
BALDOR

HORZ TEFC 324-6TSC ECP W/312 BRGS, PLS

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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