ABB BALDOR RELIANCE

Customer information packet

CEM4114T

50HP, 3540RPM, 3PH, 60HZ, 326TSC, 1252M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326TSC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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
Current @ Voltage	122.000 A @ 208.0 V
	56.000 A @ 460.0 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
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	V
Type	AC
Mech. spec.	12H41
Base	
Status	PRD/A
Elec. spec.	12WGY291
Layout	12LYH041
Eff. date	09-23-2026
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	09-15-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	56.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
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

NP3443LUA												
CAT.NO.	CEM4114T			**CUST. P/N**						**ENCL**	TEFC	
SPEC.	12H041Y291G2	**CC**	010A	**FRAME**	326TSC		**SER.NO.**					
HP	50	**CLASS**	F	**HZ**	60							
R.P.M.	3540	**PH.**	3	**DES.**	A							
VOLTS	230/460	**CODE**	H	**ODE BRG**	6311	**DE BRG**	6312					
AMPS	112/56											
RATING	40C AMB-CONT	**NEMA NOM. EFF.**	93	**GREASE**	POLYREX EM							
P.F.	90	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**								
USABLE AT	50Hz 50HP 190/380V 134/67A	SF1.0										
VOLTS	**AMPS**	**MAX. SPACE HEATER TEMP.**										

AC Induction Motor Performance Data
Record # 35504
Typical performance - not guaranteed values

Winding: 12WGY291-R005	**Type:** 1252M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	74.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			112/56	**Breakdown Torque**	292 LB-FT
R.P.M.			3540	**Pull-up Torque**	112 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	139 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	408 A
Service Factor (S.F.)			1.15	**No-load Current**	14.9 A
NEMA Nom. Eff.	93	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.11257 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	77°C
S.F. Amps				**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

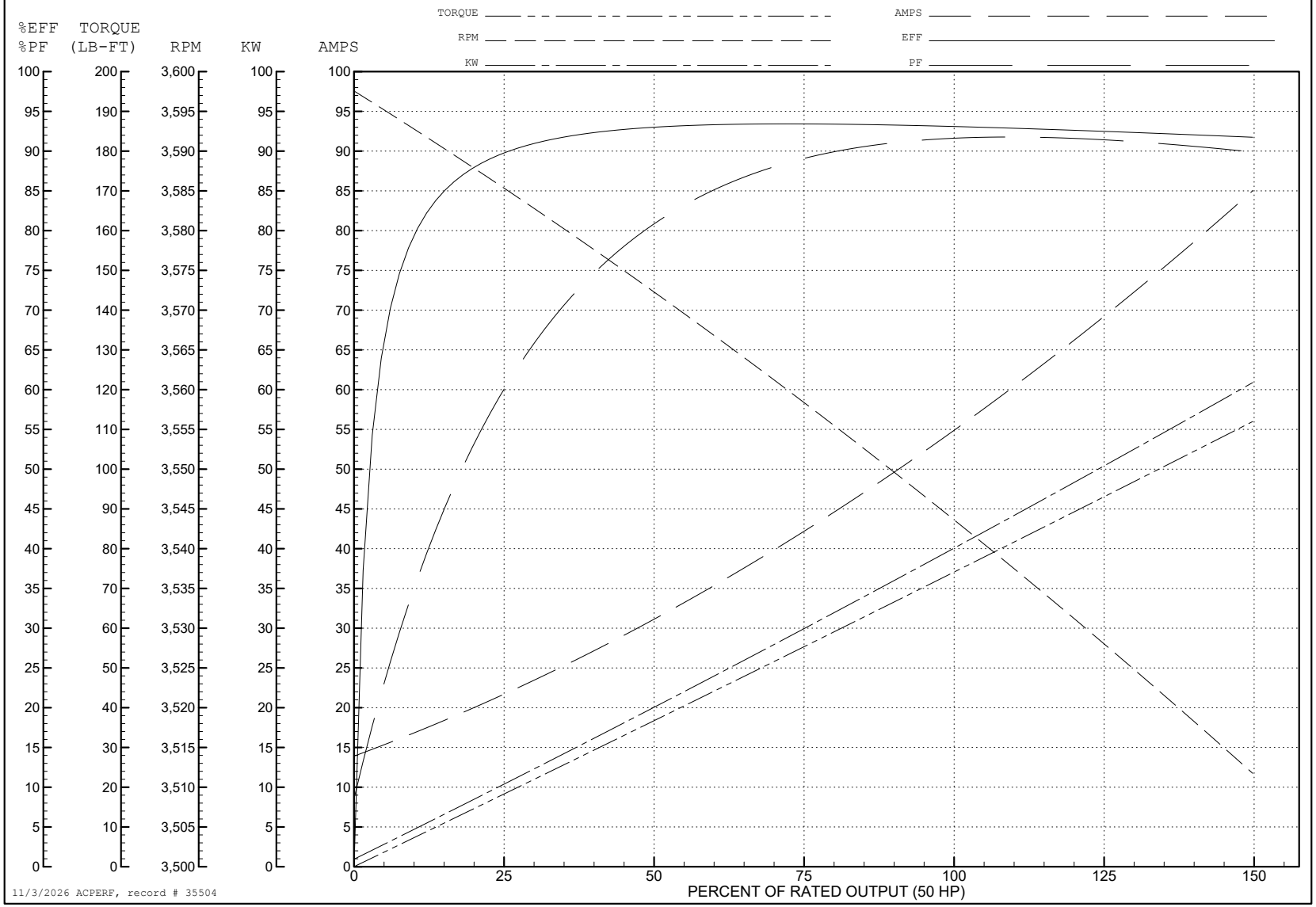
ABB Motors and Mechanical Inc.

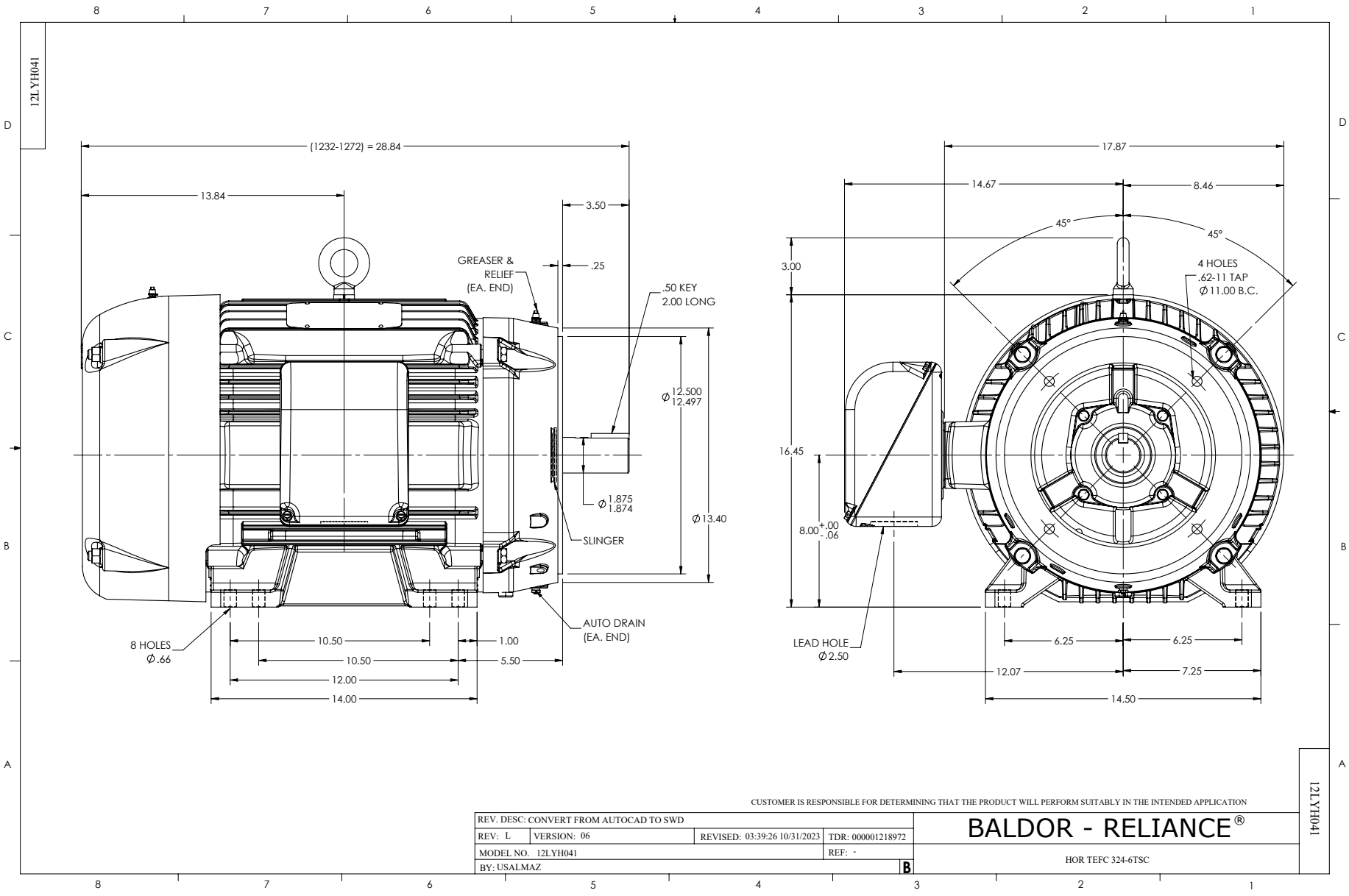
WINDING # 12WGY291

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

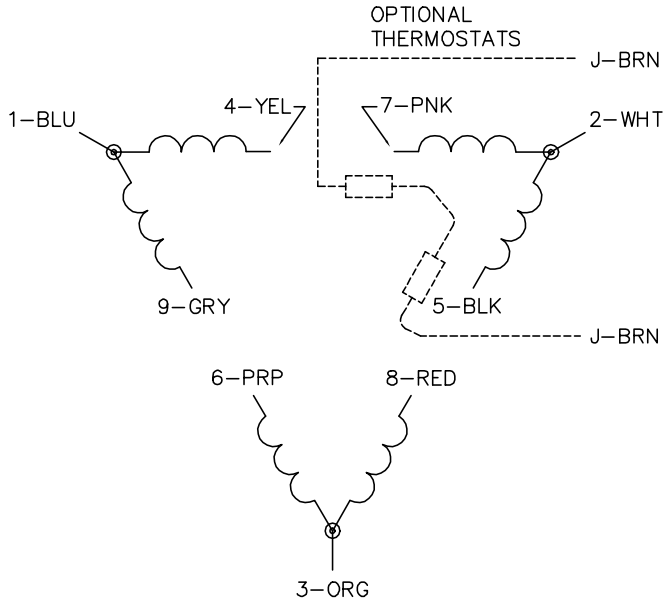
Typical performance - not guaranteed values.

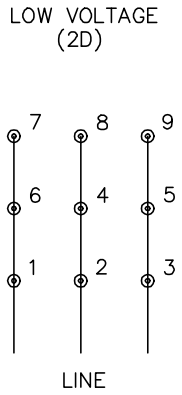
TORQUES(LB-FT): PO=292 PU=112 LR=139 LRA=408

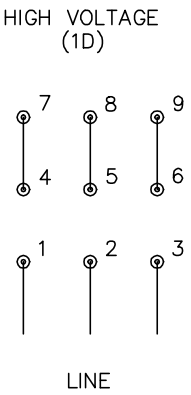



12LYH041
(1232-1272) = 28.84
13.84
3.50
.25
GREASER & RELIEF (EA. END)
.50 KEY 2.00 LONG
Ø 12.500 12.497
Ø 1.875 1.874
Ø 13.40
SLINGER
AUTO DRAIN (EA. END)
8 HOLES Ø .66
10.50
10.50
12.00
14.00
1.00
5.50
17.87
14.67
8.46
45°
45°
3.00
4 HOLES .62-11 TAP Ø 11.00 B.C.
16.45
8.00 +.00 -.06
LEAD HOLE Ø 2.50
6.25
6.25
12.07
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: L
VERSION: 06
REVISED: 03:39:26 10/31/2023
TDR: 000001218972
MODEL NO. 12LYH041
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEFC 324-6TSC
12LYH041

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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