ABB BALDOR RELIANCE

Customer information packet

CEM4114T-G

50HP, 3530RPM, 3PH, 60HZ, 326TSC, TEFC, F1
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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
Current @ Voltage	55.000 A @ 460.0 V
	110.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	55.0 a

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY830
Layout	12LY-001-003
Eff. date	03-02-2026
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	12-16-2019

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1266M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	28.78 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	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

NP3443LUA												
CAT.NO.	CEM4114T-G			**CUST. P/N**						**ENCL**	TEFC	
SPEC.	12-0000-1382	**CC**	010A	**FRAME**	326TSC		**SER.NO.**					
HP	50		**CLASS**	H	**HZ**	60						
R.P.M.	3530		**PH.**	3	**DES.**	B						
VOLTS	230/460			**CODE**	F		**ODE BRG**	6311	**DE BRG**	6312		
AMPS	110/55											
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	93			**GREASE**	POLYREX EM			
P.F.	91	**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 # 74207
Typical performance - not guaranteed values

Winding: 12WGY830-R005	**Type:** 1266M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	74.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			110/55	**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**	91	**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	3531	3510	3486	3518
Line amperes	17.7	28.8	41.5	55.2	69.5	85.6	63.8

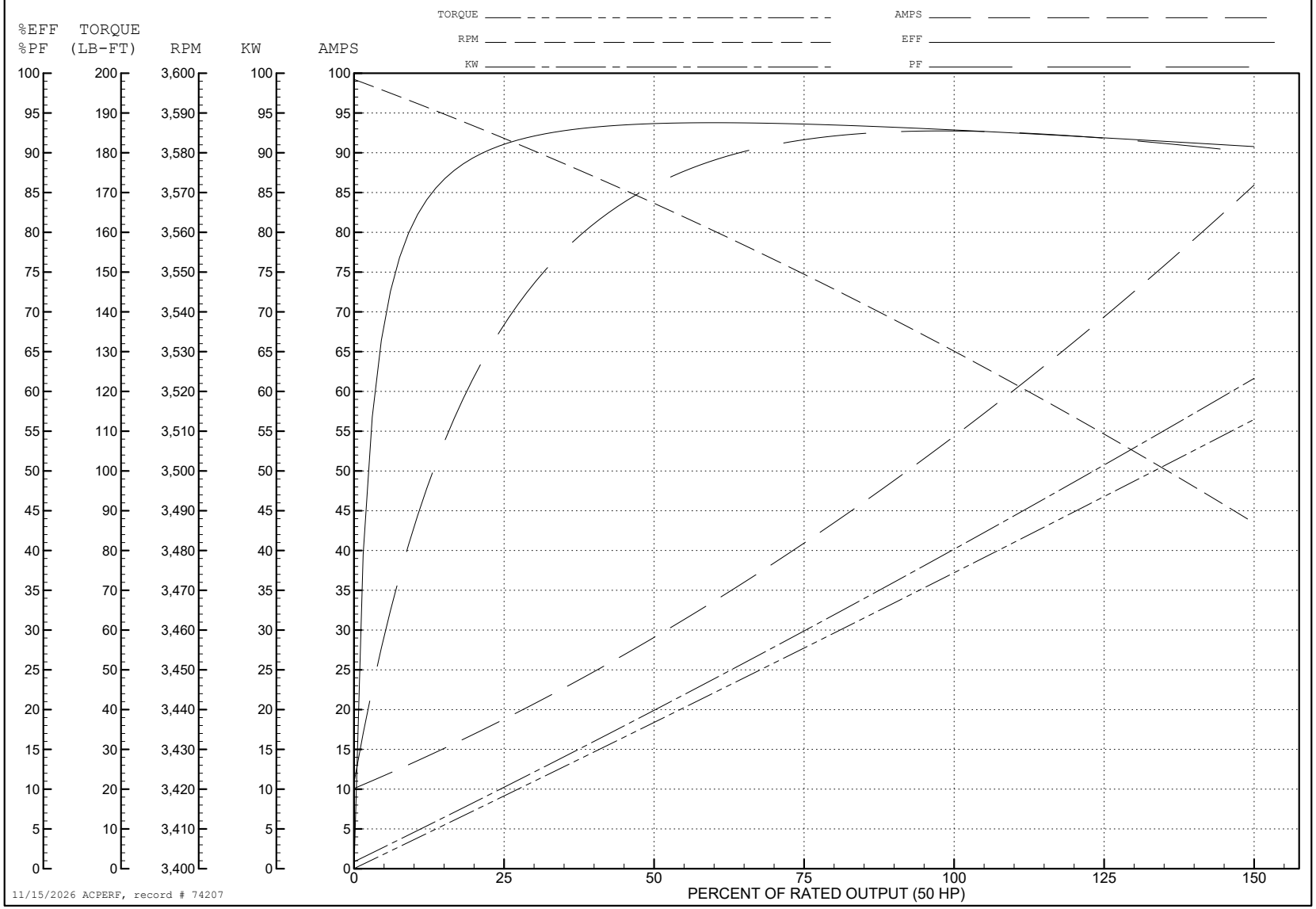
ABB Motors and Mechanical Inc.

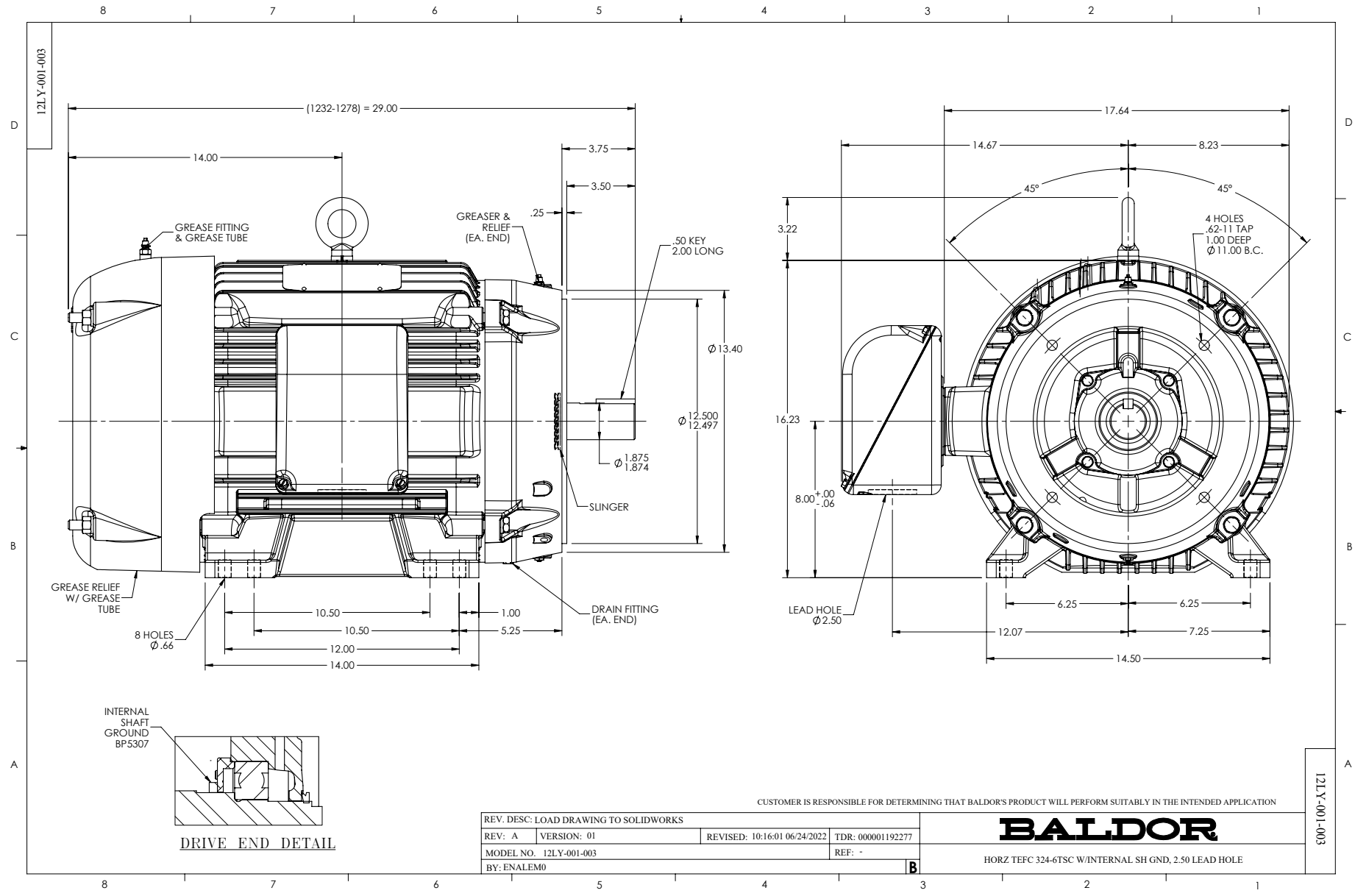
WINDING # 12WGY830

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

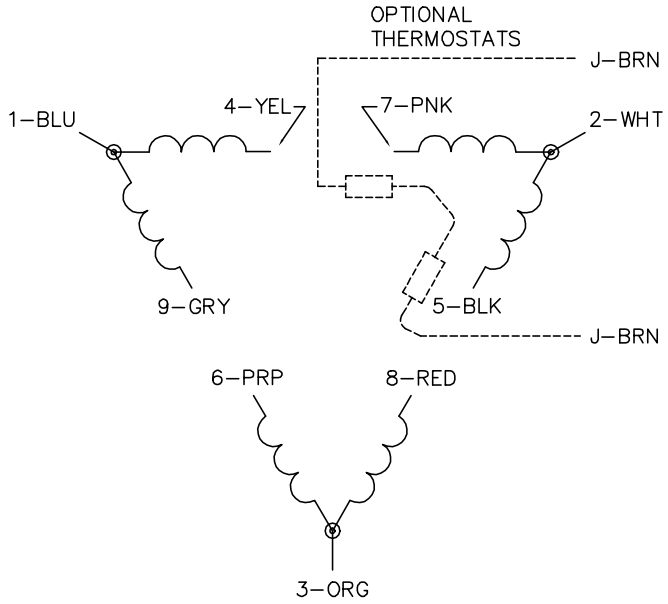
TORQUES(LB-FT): PO=223 PU=79.4 LR=99 LRA=350

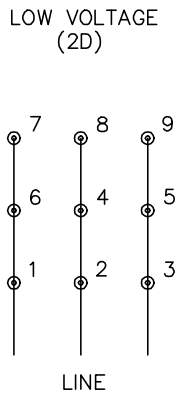
Typical performance - not guaranteed values.

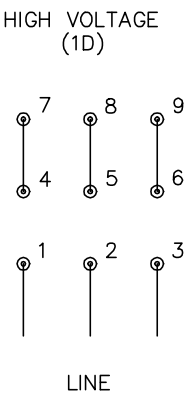



12LY-001-003
(1232-1278) = 29.00
14.00
3.75
3.50
.25
GREASE FITTING & GREASE TUBE
GREASER & RELIEF (EA. END)
.50 KEY 2.00 LONG
Ø 13.40
Ø 12.500 12.497
Ø 1.875 1.874
SLINGER
GREASE RELIEF W/ GREASE TUBE
8 HOLES Ø .66
10.50
10.50
12.00
14.00
1.00
5.25
DRAIN FITTING (EA. END)
17.64
14.67
8.23
45°
45°
3.22
4 HOLES .62-11 TAP 1.00 DEEP Ø 11.00 B.C.
16.23
8.00 +.00 -.06
LEAD HOLE Ø 2.50
6.25
6.25
12.07
7.25
14.50
INTERNAL SHAFT GROUND BP5307
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 10:16:01 06/24/2022
TDR: 000001192277
MODEL NO. 12LY-001-003
REF: -
BY: ENALEM0
B
BALDOR
HORZ TEFC 324-6TSC W/INTERNAL SH GND, 2.50 LEAD HOLE
12LY-001-003

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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