ABB BALDOR RELIANCE

Customer information packet

JMEWDM4114T

50HP, 3530RPM, 3PH, 60HZ, 326JM, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326JM
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	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY830
Layout	12LYL057
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	12-17-2019

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1266M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.53 IN
Power Factor	91
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 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

NP1669L									
CAT.NO.	JMEWDM4114T								
SPEC.	12-0000-1385								
HP	50								
VOLTS	230/460								
AMP	110/55								
RPM	3530								
FRAME	326JM	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	F	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	93	**PF**	91						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6311						
ENCL	TEFC	**SN**							
BLANK	10:1 CT & VT,1.0SF								

AC Induction Motor Performance Data
Record # 47134
Typical performance - not guaranteed values

Winding: 12WGY830-R001	**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**	97°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	93
Efficiency	91	93.4	93.6	93	92	90.7	92.7
Speed	3583	3566	3549	3531	3510	3486	3548
Line amperes	17.7	28.8	41.5	55.2	69.5	85.6	62.7

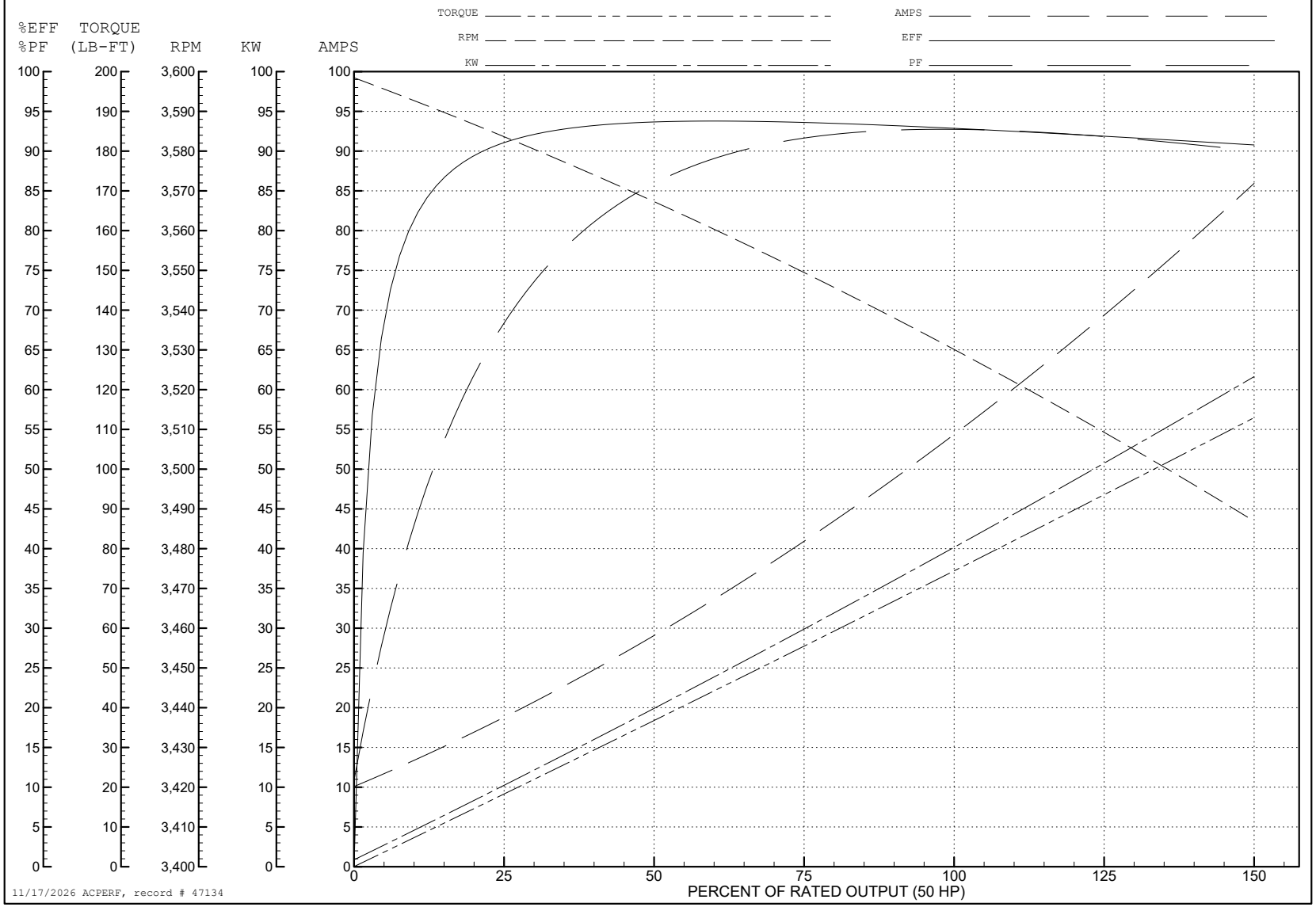
ABB Motors and Mechanical Inc.

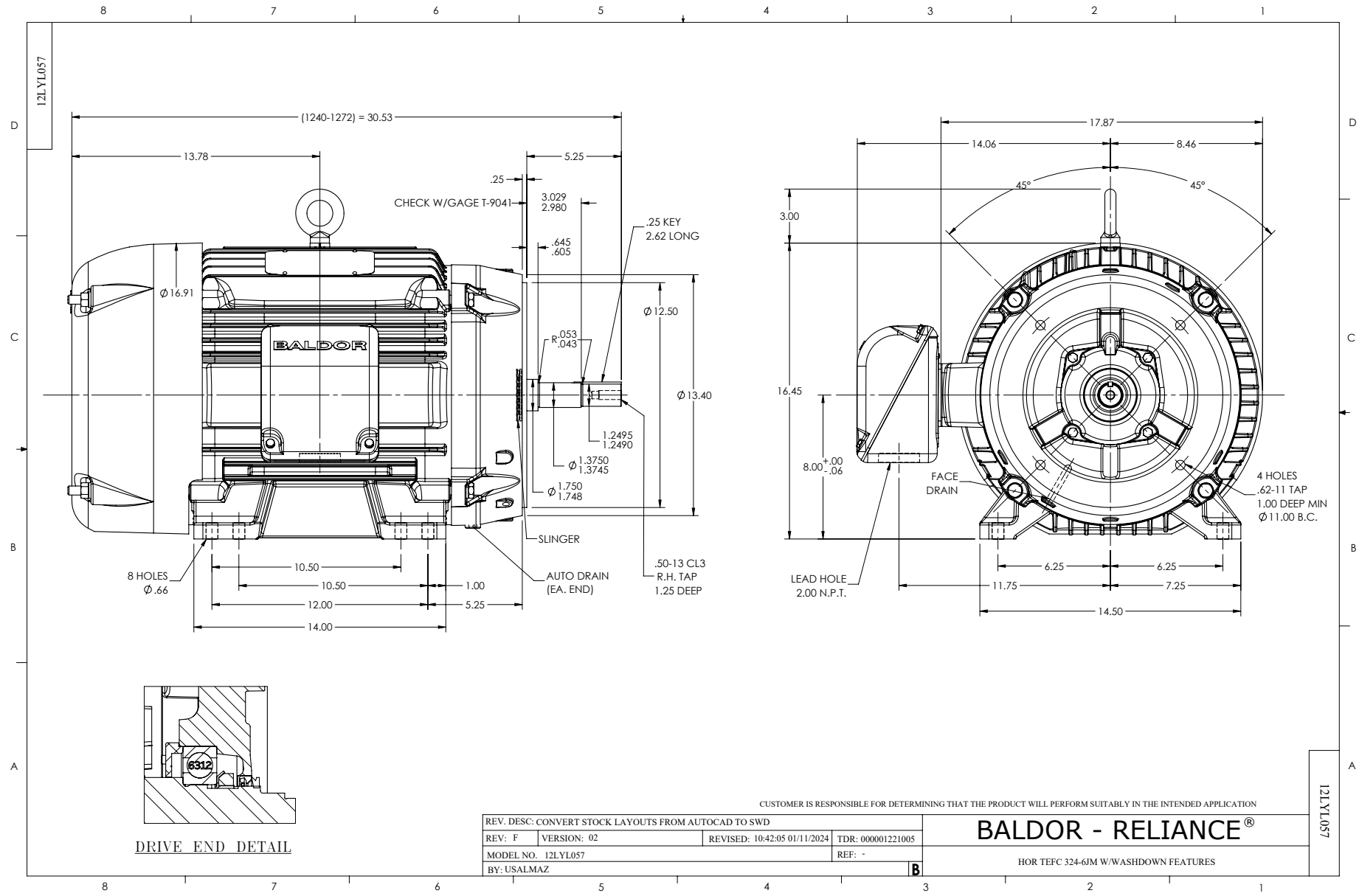
WINDING # 12WGY830

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

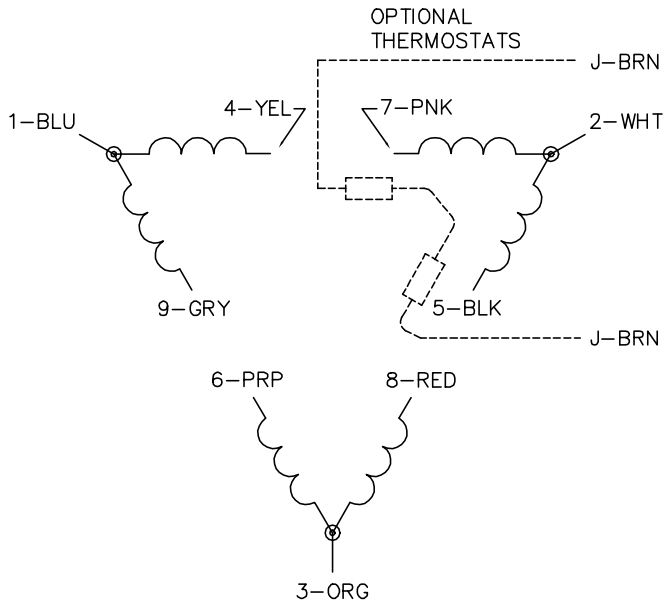
Typical performance - not guaranteed values.

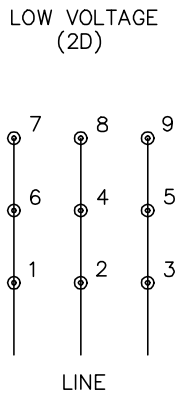
TORQUES(LB-FT): PO=223 PU=79.4 LR=99 LRA=350

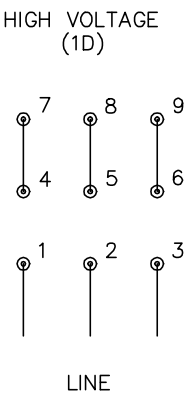



12LYL057
(1240-1272) = 30.53
13.78
5.25
.25
CHECK W/GAGE T-9041
3.029
2.980
.25 KEY
2.62 LONG
.645
.605
Ø16.91
Ø12.50
R.053
.043
Ø13.40
1.2495
1.2490
Ø1.3750
1.3745
Ø1.750
1.748
SLINGER
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
AUTO DRAIN
(EA. END)
.50-13 CL3
R.H. TAP
1.25 DEEP
17.87
14.06
8.46
45°
45°
3.00
16.45
8.00 +.00 -.06
FACE
DRAIN
4 HOLES
.62-11 TAP
1.00 DEEP MIN
Ø11.00 B.C.
LEAD HOLE
2.00 N.P.T.
6.25
6.25
11.75
7.25
14.50
6312
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: F
VERSION: 02
REVISED: 10:42:05 01/11/2024
TDR: 000001221005
MODEL NO. 12LYL057
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEFC 324-6JM W/WASHDOWN FEATURES
12LYL057

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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