

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM4114T

50HP, 3530RPM, 3PH, 60HZ, 326JM, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C		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-FT ²

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

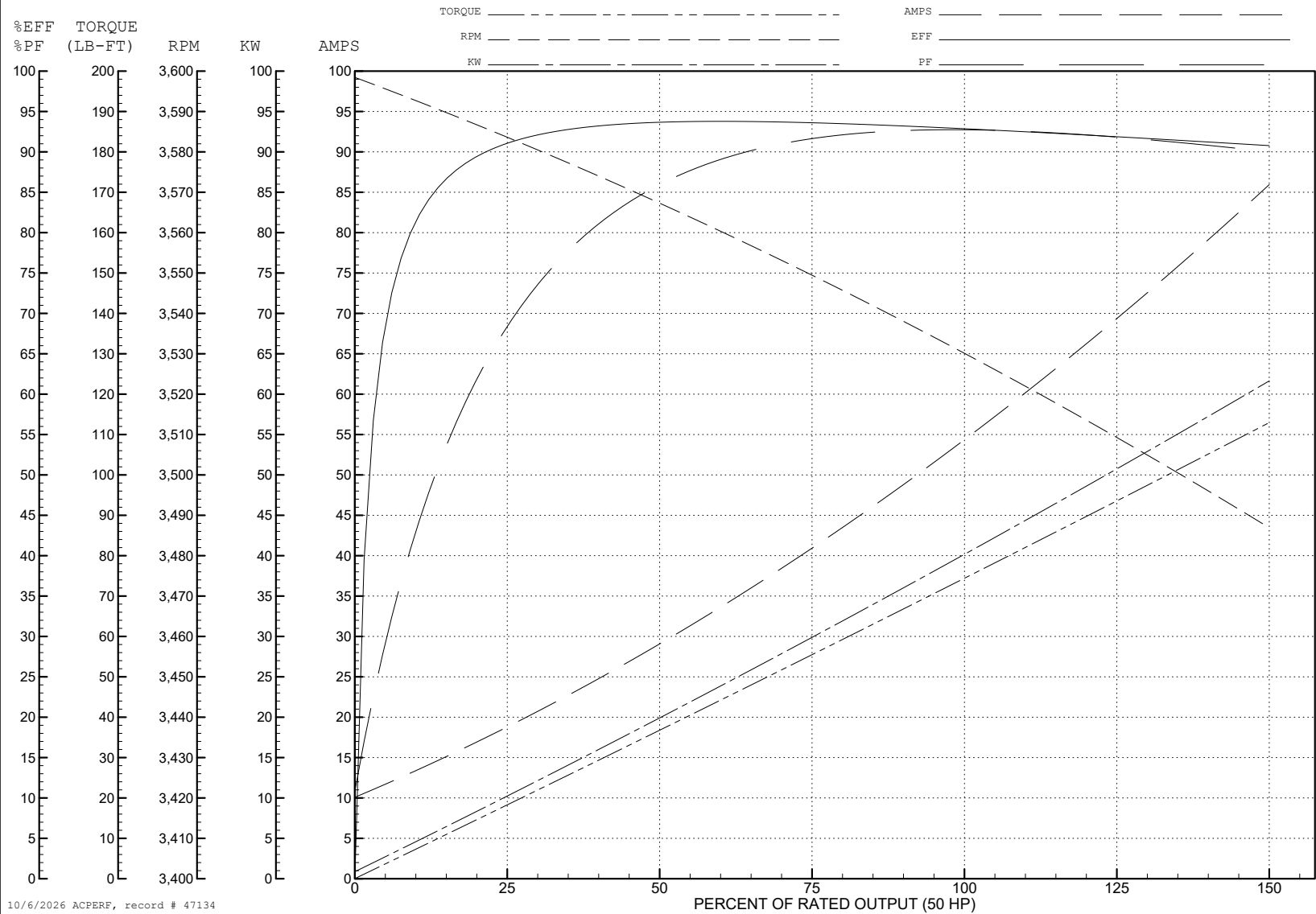
ABB Motors and Mechanical Inc.

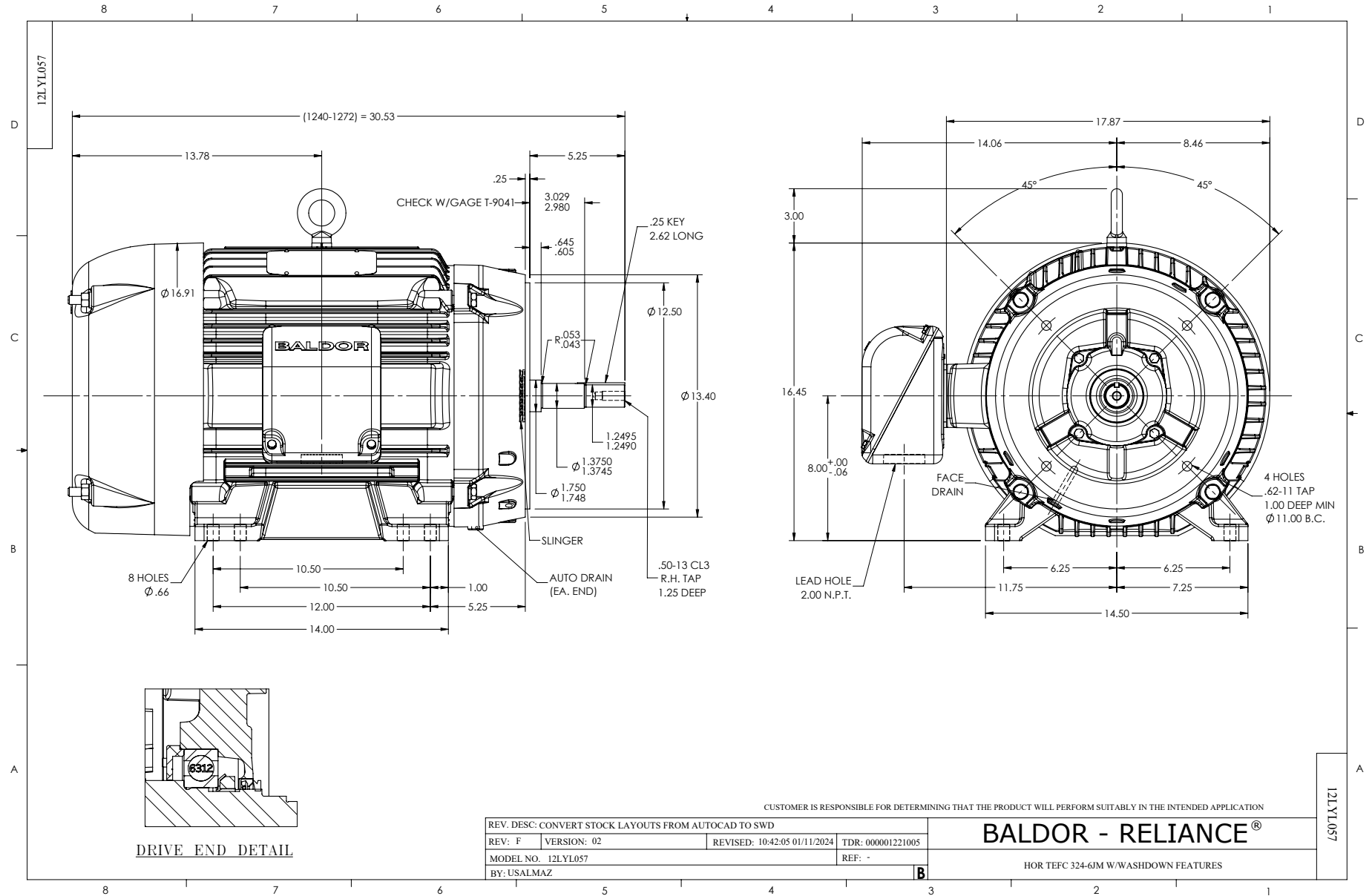
WINDING # 12WGY830

Typical performance - not guaranteed values.

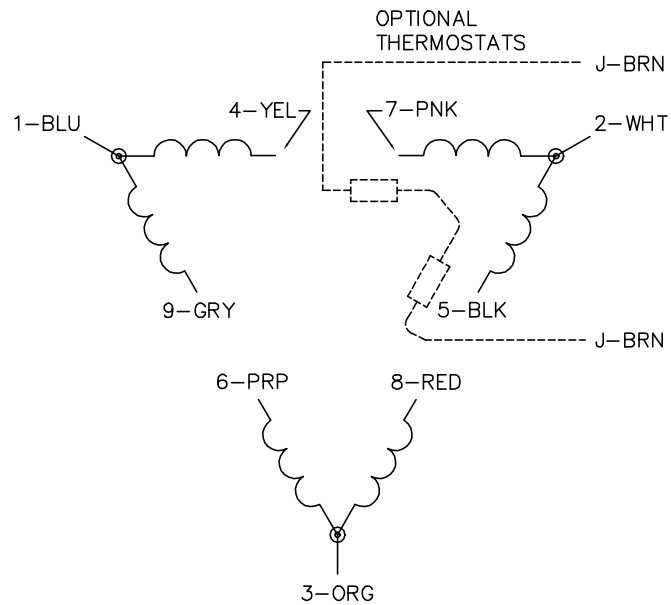
50 HP 3 PH 60 HZ 3530 RPM 460 V 1266M

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

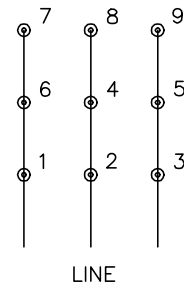




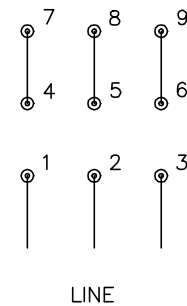
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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