

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM4110T

40HP, 1770RPM, 3PH, 60HZ, 324JM, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324JM
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	92.000 A @ 230.0 V 46.000 A @ 460.0 V 102.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY859
Layout	12LYL057
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	01-15-2020

High Voltage Full Load Amps	46.0 a
Insulation Class	F
Inverter Code	Not Inverter
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	1260M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.53 IN
Power Factor	86
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	1770 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.	JMEWDM4110T								
SPEC.	12-0000-1426								
HP	40								
VOLTS	230/460								
AMP	92/46								
RPM	1770								
FRAME	324JM		HZ	60			PH	3	
SER.F.	1.15	CODE	F	DES	B	CLASS	F		
NEMA-NOM-EFF	94.1	PF	86						
RATING	40C AMB-CONT								
CC	010A								
DE	6312		ODE	6311					
ENCL	TEFC	SN							
BLANK	20:1 CT & VT,1.0SF								

AC Induction Motor Performance Data

Record # 48093

Typical performance - not guaranteed values

Winding: 12WGY859-R001				Type: 1260M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		118 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		92/46		Breakdown Torque		305 LB-FT	
R.P.M.		1770		Pull-up Torque		146 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		173 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		273 A
Service Factor (S.F.)		1.15		No-load Current		14.3 A	
NEMA Nom. Eff.		94.1	Power Factor	86	Line-line Res. @ 25°C		0.16401 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C	
S.F. Amps				Temp. Rise @ S.F. Load		78°C	
				Locked-rotor Power Factor		27	
				Rotor inertia		7.99 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	77	84	86	87	86	87
Efficiency	92.6	94.7	94.8	94.3	93.5	92.5	93.8
Speed	1794.1	1788	1780.8	1773.7	1765.2	1756.6	1769
Line amperes	18.1	25.6	35.6	46.1	57.9	70.1	53.2

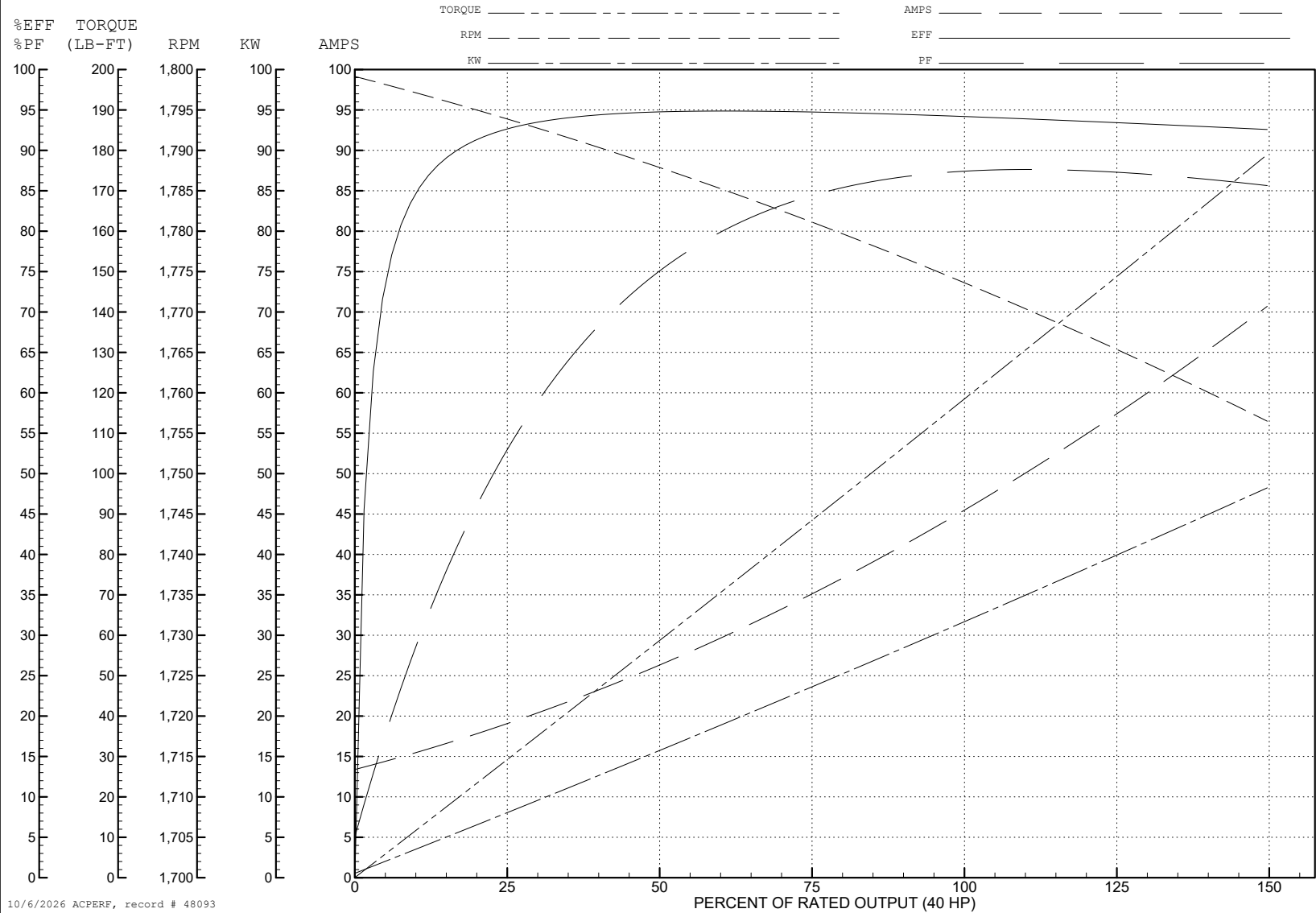
ABB Motors and Mechanical Inc.

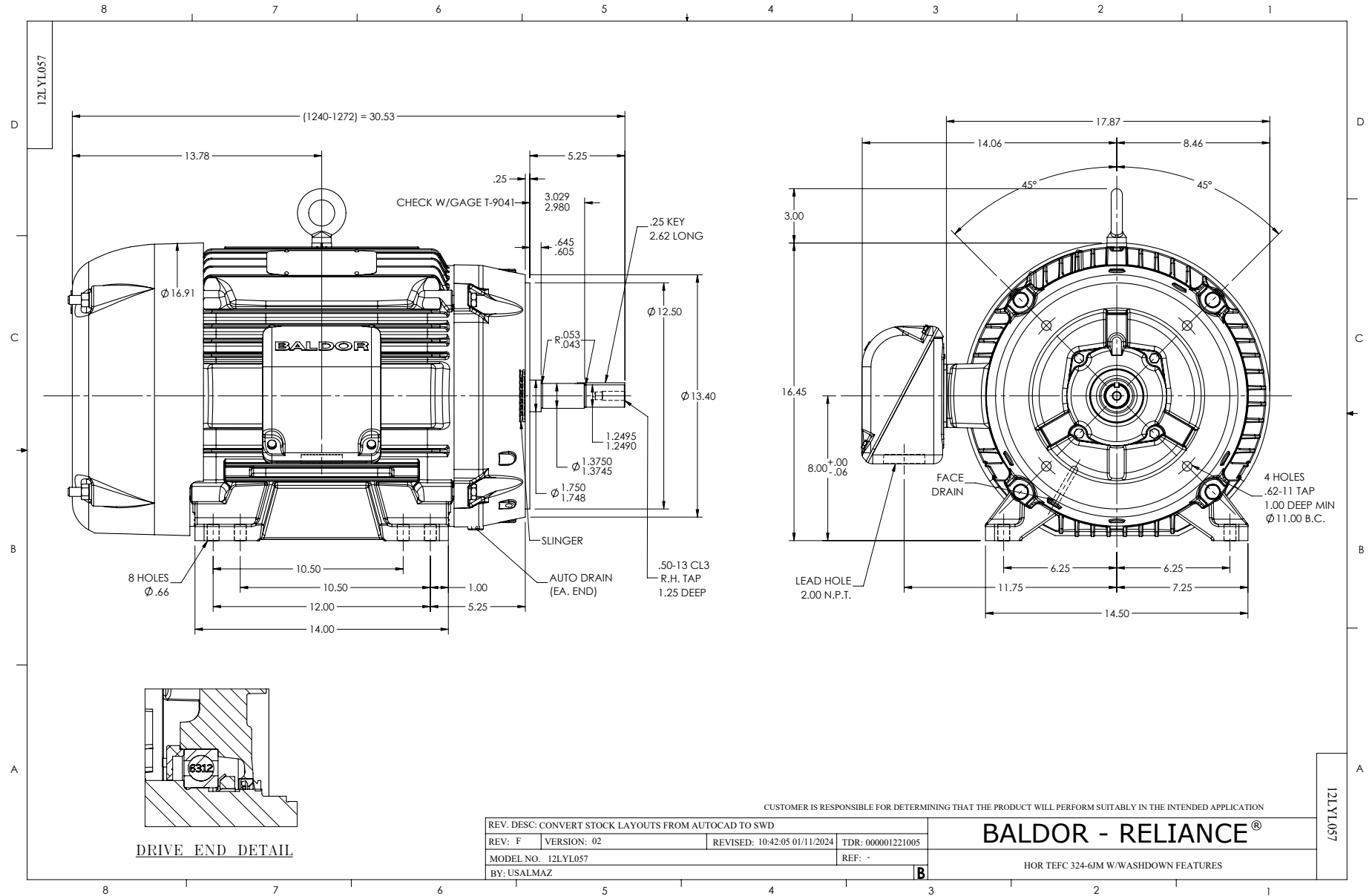
WINDING # 12WGY859

Typical performance - not guaranteed values.

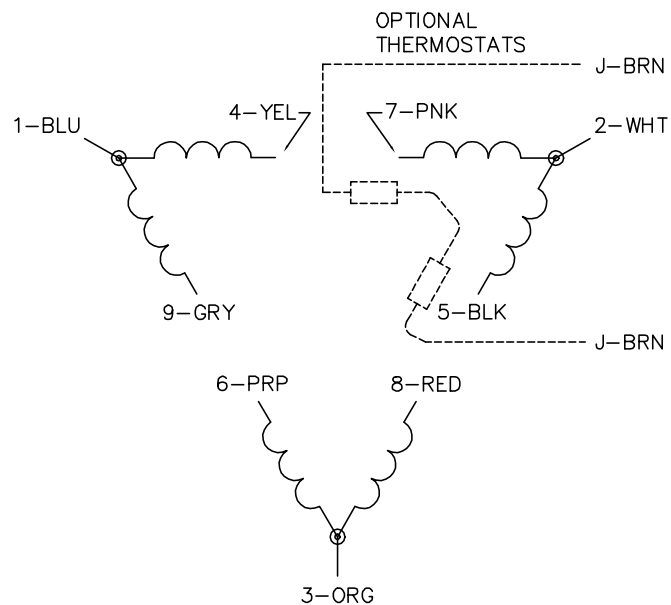
40 HP 3 PH 60 HZ 1770 RPM 460 V 1260M

TORQUES (LB-FT): PO=305 PU=146 LR=173 LRA=273

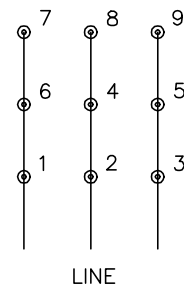




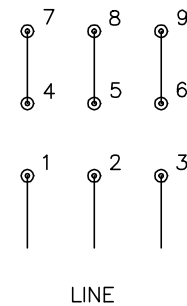
CD0180



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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