

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM4109T

40HP, 3550RPM, 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	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	94.000 A @ 230.0 V 47.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	47.0 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY202
Layout	12LYL057
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	01-20-2020

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1256M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.53 IN
Power Factor	85
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	3550 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.	JMEWDM4109T								
SPEC.	12-0000-1430								
HP	40								
VOLTS	230/460								
AMP	94/47								
RPM	3550								
FRAME	324JM		HZ	60			PH	3	
SER.F.	1.15	CODE	H	DES	B	CLASS	F		
NEMA-NOM-EFF	92.4	PF	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6312		ODE	6311					
ENCL	TEFC	SN							
BLANK	10:1 CT & VT,1.0SF								

Parts List

Part number	Description	Quantity
SA378608	SA 12-0000-1430	1.000 ea
RA368566	RA 12-0000-1430	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
12FH1002WP	FAN COVER, W/WHITE EPOXY, PRIMED CASTING	1.000 ea
HW1001S50	WASHER, 1/2 SPLT LK, STAINLESS STEEL	4.000 ea
XY5013S12	1/2-13 HEX R.H. NUT ST.S	4.000 ea
37FN3002C04	EXFN, PLASTIC, 6.00 OD, 2.003 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214S20	12-14X1.25 HXWSSLD SERTYB, SS	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
12EP1107A12WP	FREP TENV 324-6T NO GREASERS W/WHITE EPO	1.000 ea
HA3400S13	303 S.S. STUD, 1/2-13 X 7" WELKER	4.000 ea
HW1001S50	WASHER, 1/2 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
12EP1105A12P	PU ENDPLATE, MACH - NO GREASERS W/EPOXY	1.000 ea
HW1001S50	WASHER, 1/2 SPLT LK, STAINLESS STEEL	1.000 ea
10XN5013S28	1/2-13X1 3/4 HEX SS CAP	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW4600B34	SINGLE LIP SEAL 2.250 X 2.997 X .438,DBL	1.000 ea
10XN3118S44	5/16-18 X 2 3/4 HEX HEAD SS	4.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10CB1000A203P	KOBX W/2.00 NPT & .31 GND MTG, EPOXY PRI	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea

HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB1500P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520S16	1/4-20 X 1 HEX HEAD SS	4.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	4.000 ea
MG1025W01	WILKOFAS, 781.01, SIGNAL WHITE #9003	0.125 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 ea
12PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 ea
HW2502E23	#303 SS,SQ KEY 1/4 X 2.625	1.000 ea

AC Induction Motor Performance Data

Record # 29691

Typical performance - not guaranteed values

Winding: 12WGY202-R001			Type: 1256M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		58.9 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		94/47	Breakdown Torque		241 LB-FT		
R.P.M.		3550	Pull-up Torque		61.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		93.8 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		323 A
Service Factor (S.F.)		1.15		No-load Current		19.3 A	
NEMA Nom. Eff.		93	Power Factor	85	Line-line Res. @ 25°C		0.13 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C	
S.F. Amps				Temp. Rise @ S.F. Load		72°C	
				Locked-rotor Power Factor		21.7	
				Rotor inertia		4.36 lb-ft²	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	81	85	87	88	86
Efficiency	87.3	91.4	92.9	93.1	93.1	92.7	93.1
Speed	3588	3578	3567	3555	3543	3530	3548
Line amperes	22	28.7	37.4	47	57.4	68.4	53.2

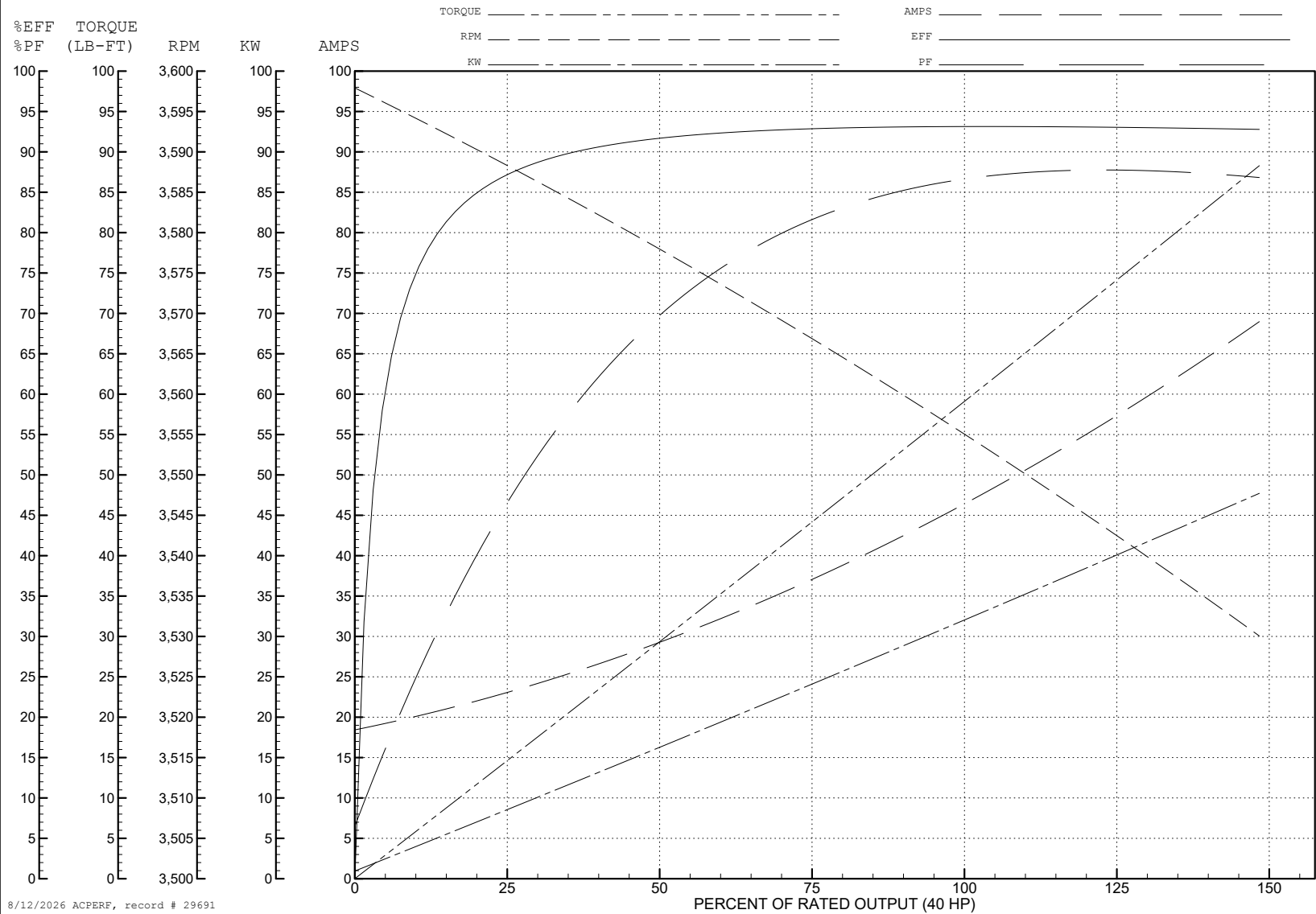
ABB Motors and Mechanical Inc.

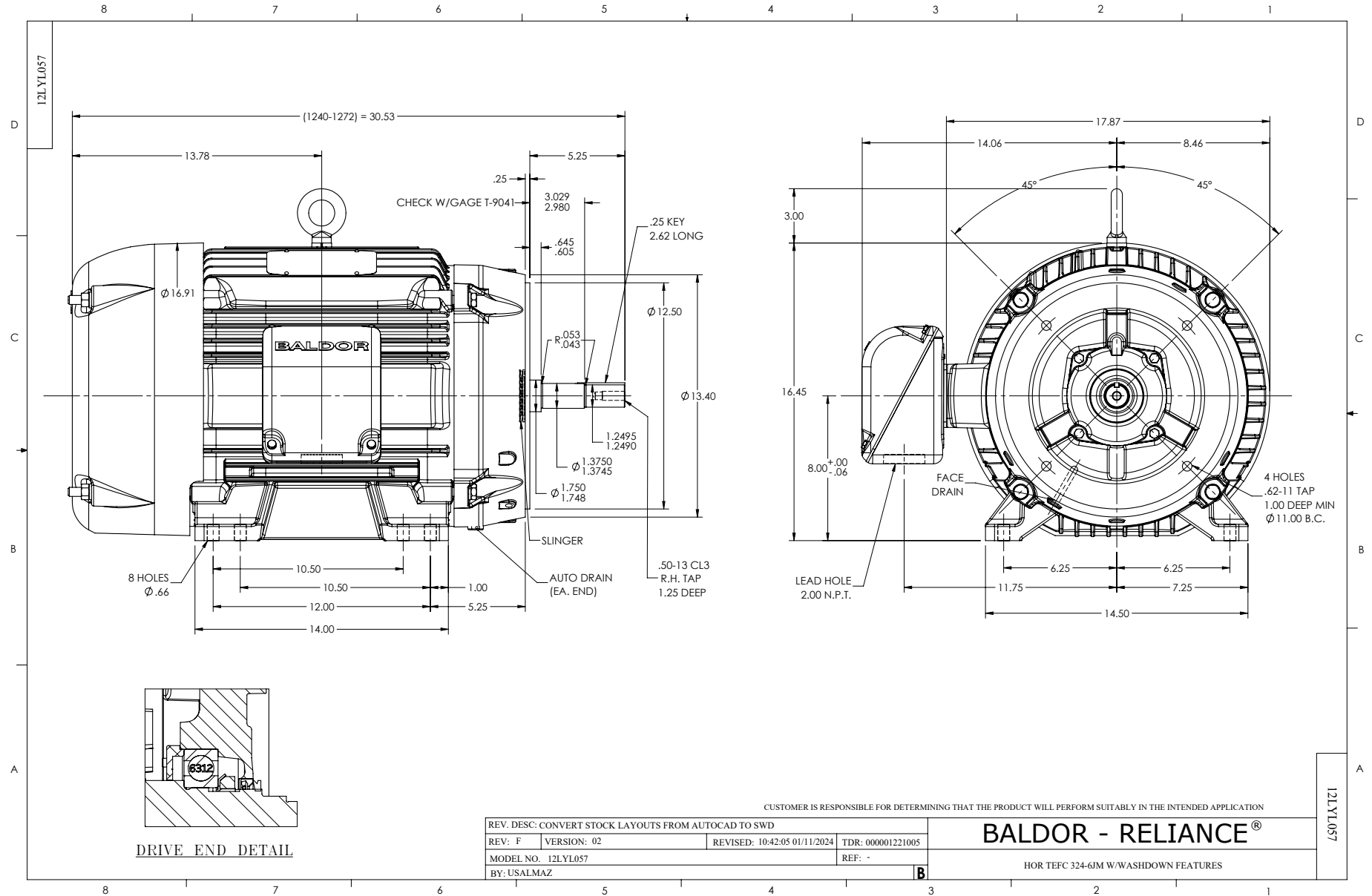
WINDING # 12WGY202

Typical performance - not guaranteed values.

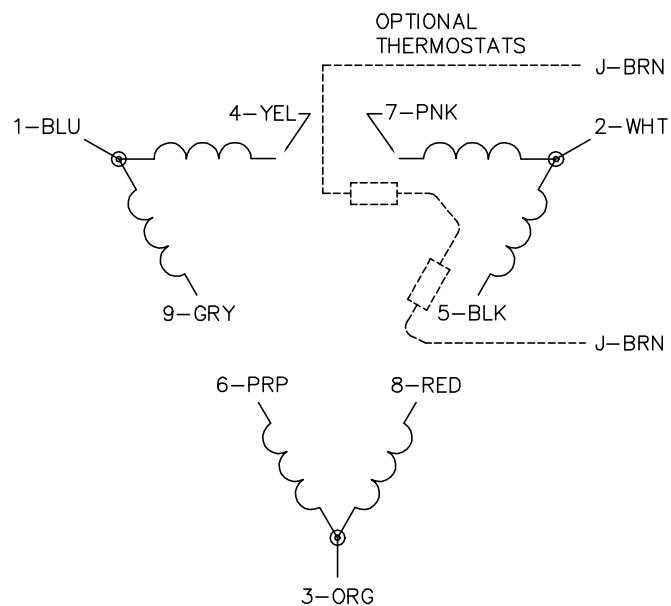
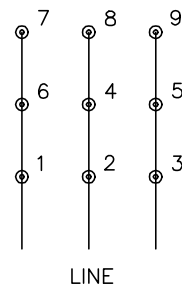
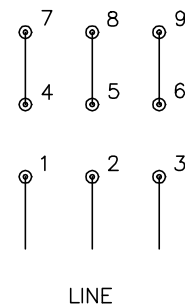
40 HP 3 PH 60 HZ 3550 RPM 460 V 1256M

TORQUES (LB-FT): PO=241 PU=61.2 LR=93.8 LRA=323





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.

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

SH 1 of 1

CD0180