ABB BALDOR RELIANCE

Customer information packet

IDXM7062T

40HP, 1775RPM, 3PH, 60HZ, 324T, 1254M, XPFC, F1
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
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
	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
Constant Torque Speed Range	30
Current @ Voltage	96.000 A @ 230.0 V
	48.000 A @ 460.0 V
	102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	S
Type	AC
Mech. spec.	12M099
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYM099
Eff. date	05-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	10-24-2013

Front Shaft Indicator	None
Haz Area Temp Code	T2B
Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line

Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0890XPSLEV											
NO.					**CC**	010A					
S/N					**TEMP CODE**	T2B					
SPEC.	12M099Y276G1				**INV.TYPE**	PWM					
CAT.NO.					**C HP FR**	60	**C HP TO**	90			
HP	40				**CT HZ FROM**	30			**CT HZ TO**	60	
VOLTS	230/460				**VT HZ FROM**	6			**VT HZ TO**	60	
AMPS	96/48			**MAG CUR**	39/19.5						
RPM	1775			**MX RPM**	2700						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	94.1				
SER.F.	1.00	**DES**	A	**SL HZ**	0.85	**WK2**	7.19				
FRAME	324T	**RATING**	40C AMB-CONT								

AC Induction Motor Performance Data
Record # 43813
Typical performance - not guaranteed values

Winding: 12WGY276-R023	**Type:** 1254M	**Enclosure:** XPFC

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			96/48	**Breakdown Torque**	386 LB-FT
R.P.M.			1775	**Pull-up Torque**	193 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	216 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	338 A
Service Factor (S.F.)			1	**No-load Current**	19.9 A
NEMA Nom. Eff.	94.1	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.14898 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
				Locked-rotor Power Factor	27
				Rotor inertia	7.19 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	47	69	78	83	85	85
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8

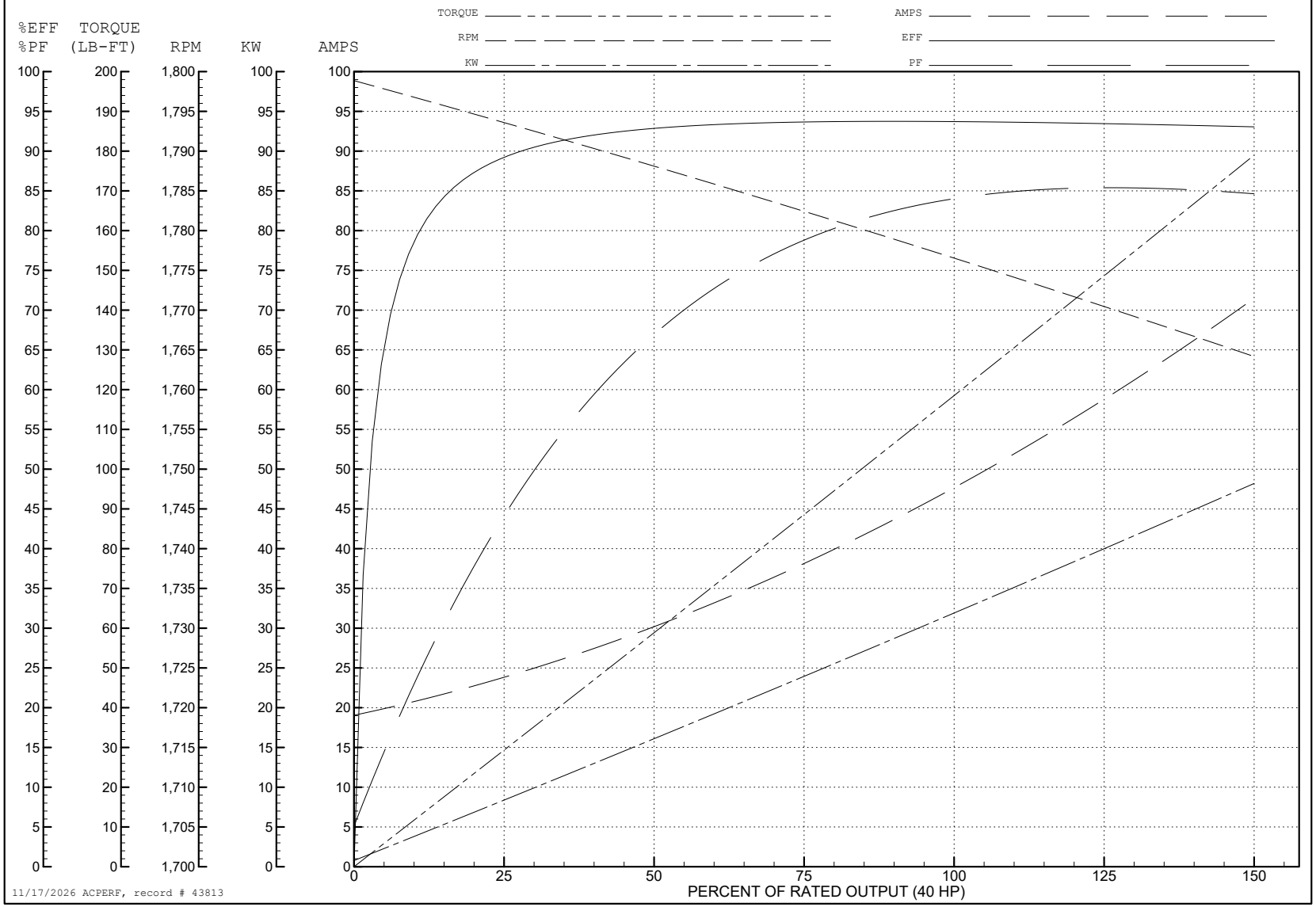
ABB Motors and Mechanical Inc.

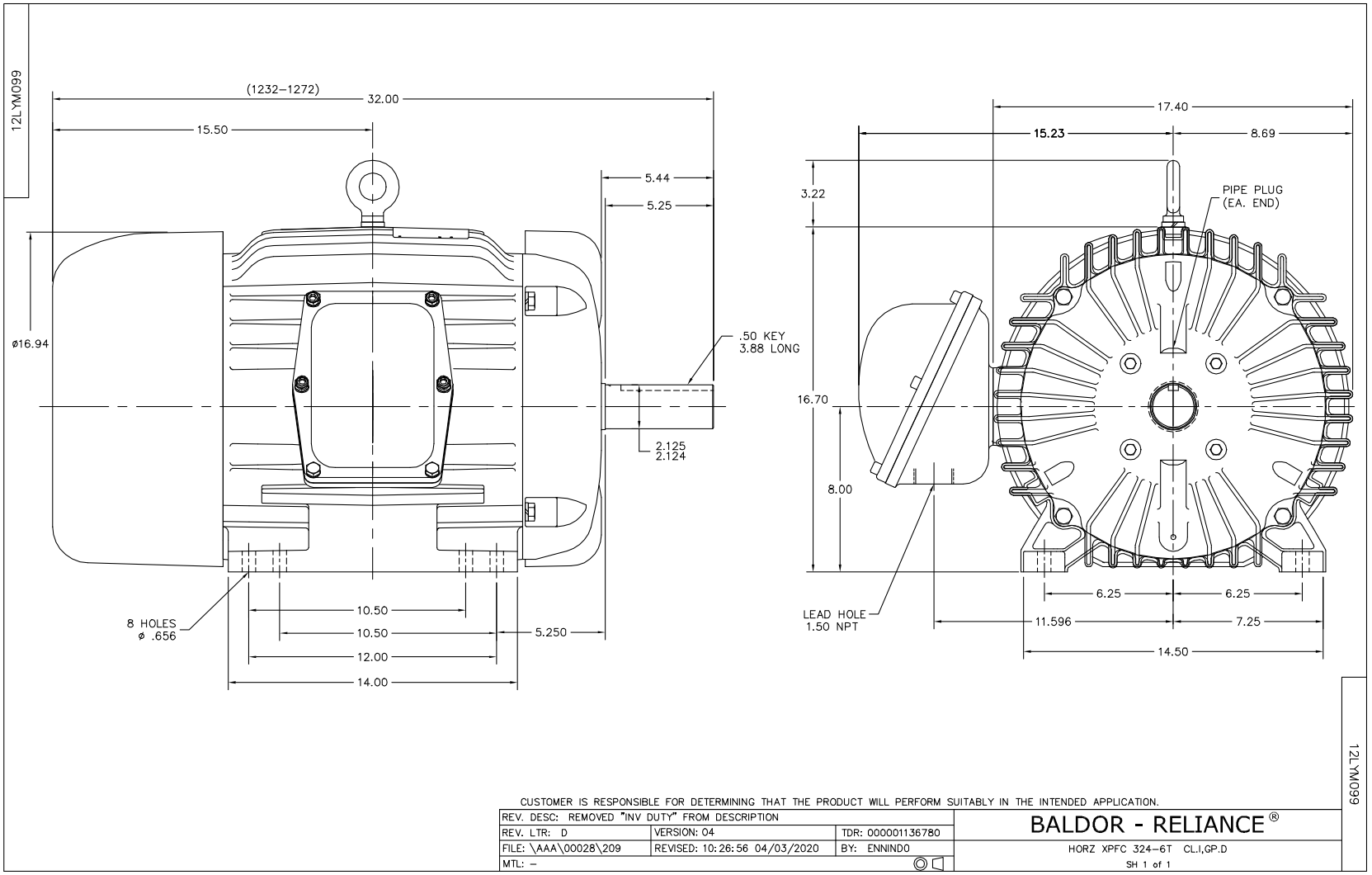
WINDING # 12WGY276

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

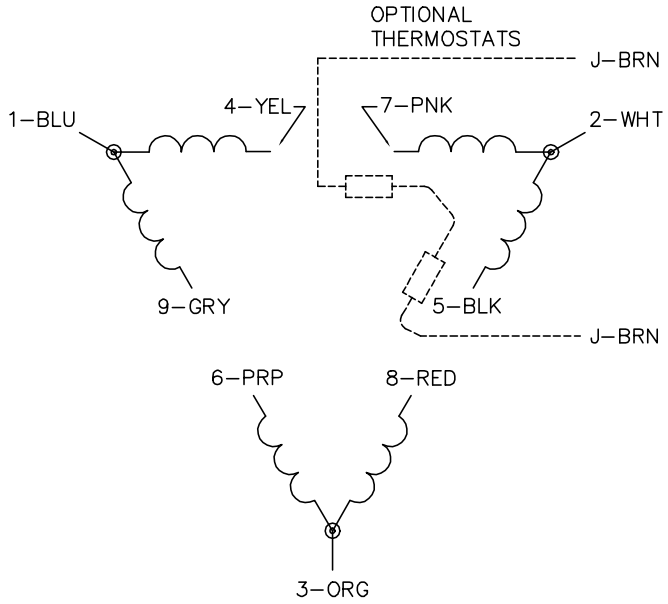
Typical performance - not guaranteed values.

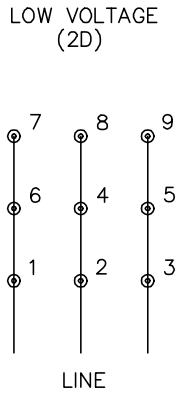
TORQUES(LB-FT): PO=386 PU=193 LR=216 LRA=338

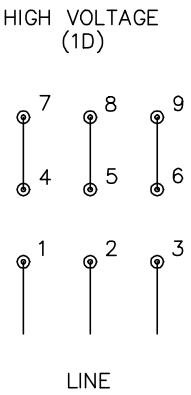



12LYM099
(1232–1272)
32.00
15.50
5.44
5.25
ø16.94
.50 KEY
3.88 LONG
2.125
2.124
8 HOLES
ø .656
10.50
10.50
12.00
14.00
5.250
17.40
15.23
8.69
3.22
PIPE PLUG
(EA. END)
16.70
8.00
LEAD HOLE
1.50 NPT
6.25
6.25
11.596
7.25
14.50
12LYM099
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REMOVED "INV DUTY" FROM DESCRIPTION
REV. LTR: D
VERSION: 04
TDR: 000001136780
FILE: \AAA\00028\209
REVISED: 10:26:56 04/03/2020
BY: ENNINDO
MTL: –
BALDOR - RELIANCE®
HORZ XPFC 324–6T CL.I,GP.D
SH 1 of 1

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.

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FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1