

ABB BALDOR RELIANCE III

Customer information packet

CEM7062T

40//30HP, 1775//1480RPM, 3PH, 60//50HZ, 324T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ 30.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA
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	45.000 A @ 380.0 V 48.000 A @ 460.0 V 90.000 A @ 190.0 V 96.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %

Part Detail

Revision	Y
Type	AC
Mech. spec.	12N025
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYN025
Eff. date	05-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-10-2010

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	45.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	C-Face
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	1480 rpm

	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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	12N025Y276G1								
CAT.NO.	CEM7062T								
HP	40//30	T. CODE	T3C						
VOLTS	230/460//190/380								
AMPS	96/48//90/45								
RPM	1775//1480								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	A	CODE	H				
RATING	40C AMB-CONT								
FRAME	324TC	NEMA-NOM-EFF							94.1
		PF	82						
BLANK									

AC Induction Motor Performance Data

Record # 30935

Typical performance - not guaranteed values

Winding: 12WGY276-R002				Type: 1254M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40//30		Full Load Torque		118 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		96/48//90/45		Breakdown Torque		368 LB-FT	
R.P.M.		1775//1480		Pull-up Torque		174 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		185 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		334 A
Service Factor (S.F.)		1		No-load Current		19.5 A	
NEMA Nom. Eff.		94.1	Power Factor	82	Line-line Res. @ 25°C		0.144 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		53°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	46	67	77	82	83	85
Efficiency	90.1	93.6	94.4	94.4	94.2	93.4
Speed	1795	1790	1785	1780	1774	1767
Line amperes	22.9	30.1	38.9	48.4	59.5	70.4

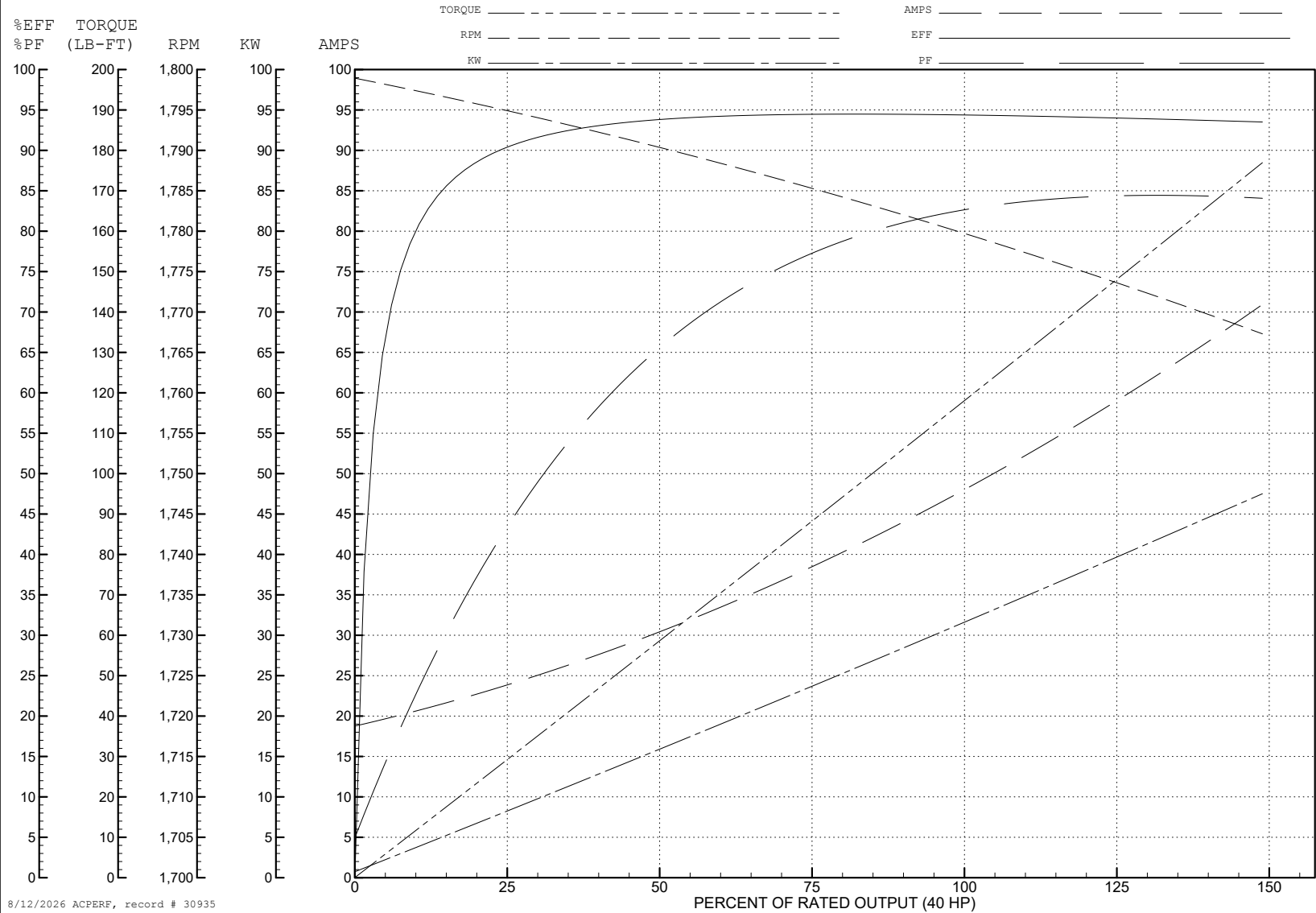
ABB Motors and Mechanical Inc.

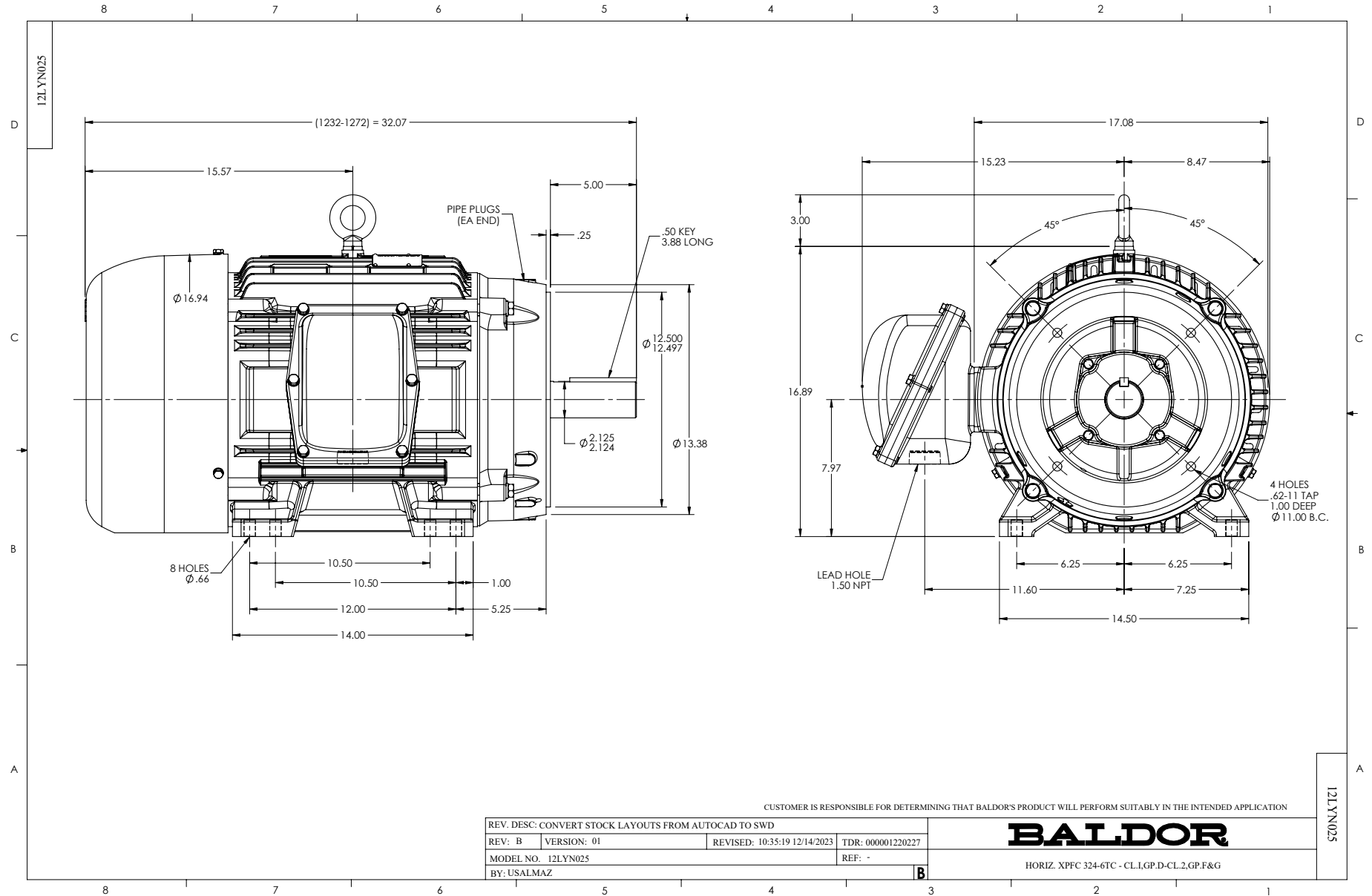
WINDING # 12WGY276

Typical performance - not guaranteed values.

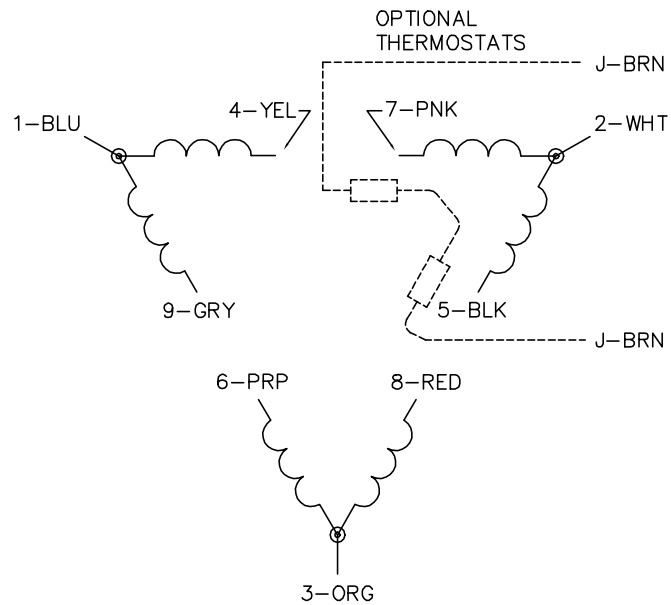
40 HP 3 PH 60 HZ 1780 RPM 460 V 1254M

TORQUES (LB-FT): PO=368 PU=174 LR=185 LRA=334

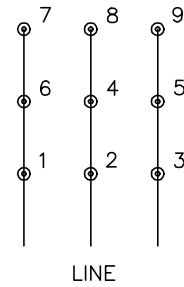




CD0180



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