

ABB BALDOR RELIANCE III

Customer information packet

EM7064T

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	326T
Frame Material	Iron
Frequency	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	50.000 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	UR CSA CSA EEV
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	58.000 A @ 460.0 V 116.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	12G166
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYG166
Eff. date	03-25-2026
CD Diagram	CD0180
Poles	04
Leads	9#8 Y
Proprietary	False
Created date	02-03-2021

High Voltage Full Load Amps	58.0 a
Insulation Class	B
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	85
Product Family	Hazardous Location Motor
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 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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	12G166Z279G1								
CAT.NO.	EM7064T								
HP	50	T. CODE	T3C						
VOLTS	230/460								
AMPS	116/58								
RPM	1775								
HZ	60	PH	3	CL	B				
SER.F.	1.00	DES	A	CODE	H				
RATING	40C AMB-CONT								
FRAME	326T	NEMA-NOM-EFF	94.5						
		PF	85						
BLANK									

AC Induction Motor Performance Data

Record # 86838

Preliminary Data Sheet

Winding: 12WGZ279-R005				Type: 1272M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		50		Full Load Torque		147.8 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		116/58		Breakdown Torque		475 LB-FT	
R.P.M.		1775		Pull-up Torque		210 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		240 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		413 A	
Service Factor (S.F.)		1		No-load Current		20.8 A	
NEMA Nom. Eff.		94.5	Power Factor	85	Line-line Res. @ 25°C		0.114 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps		132/68		Temp. Rise @ S.F. Load			
				Locked-rotor Power Factor		29.7	
				Rotor inertia		9.59 lb-ft²	

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	73	82	86	87	87
Efficiency	91.5	94.4	94.8	94.6	94	93.2
Speed	1794	1788	1782	1776	1769	1761
Line amperes	24.8	33.9	45.3	57.9	71.6	87.5

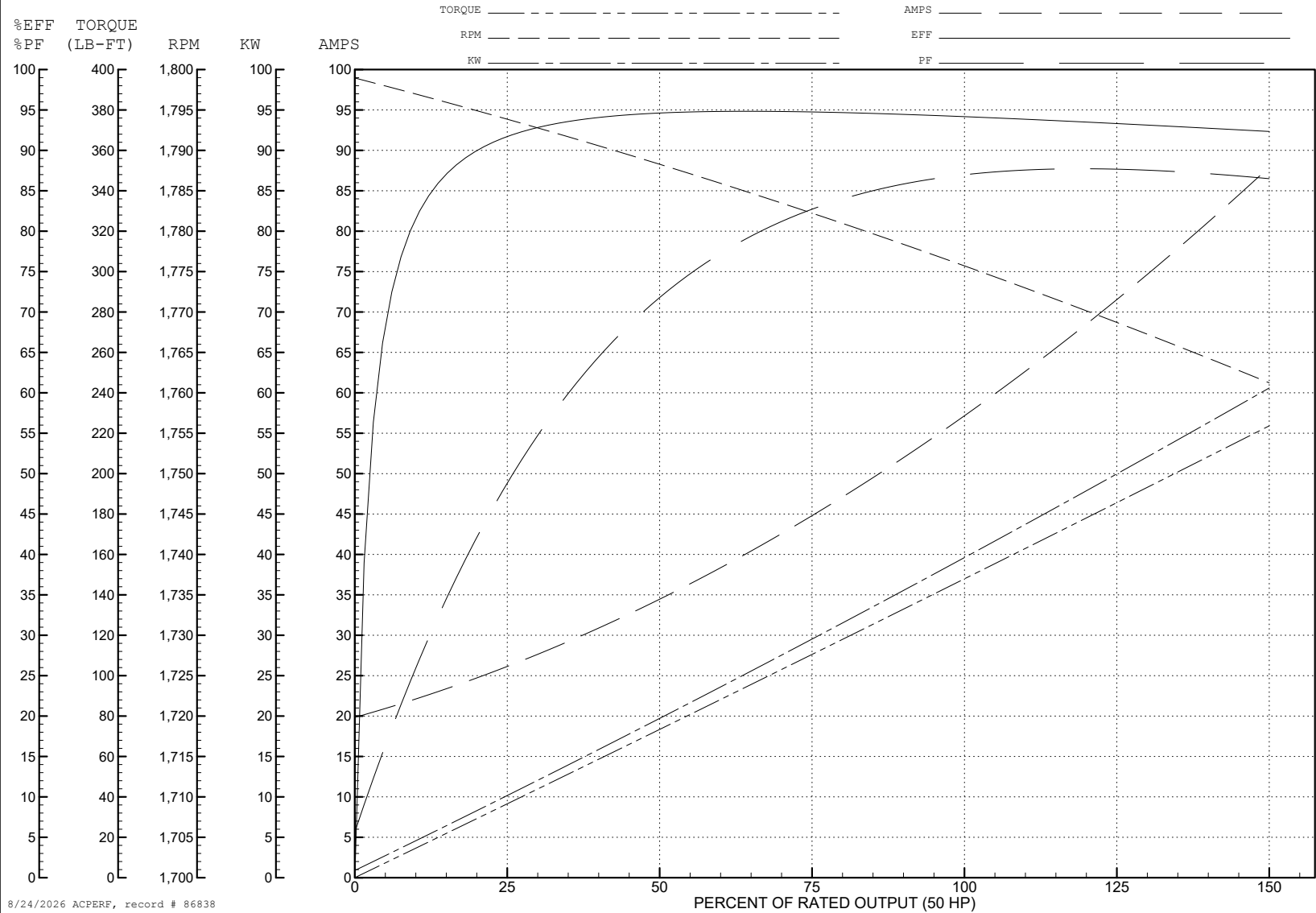
ABB Motors and Mechanical Inc.

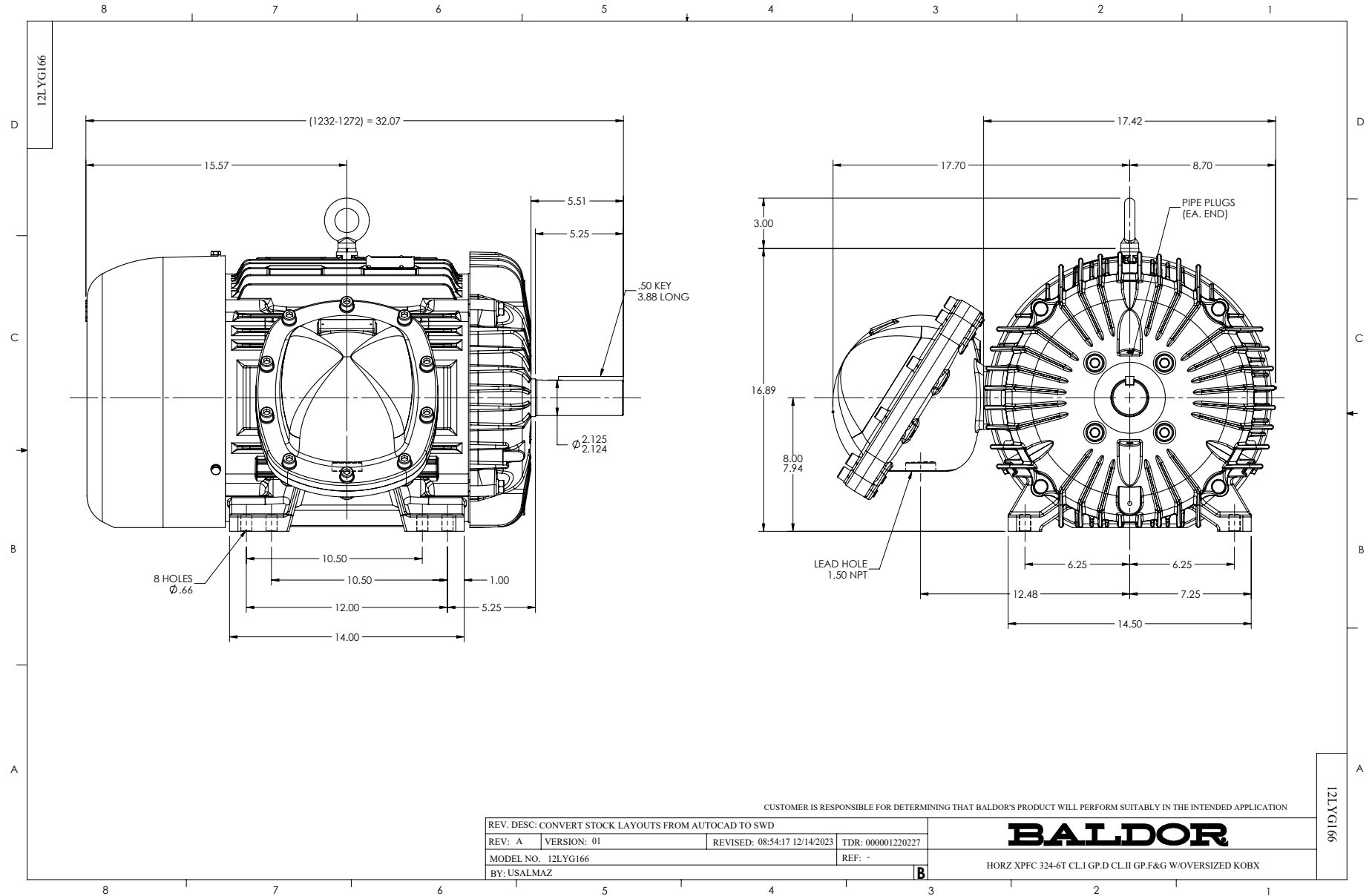
WINDING # 12WGZ279

Typical performance - not guaranteed values.

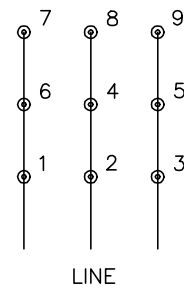
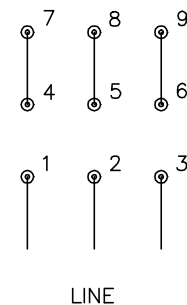
50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

TORQUES (LB-FT): PO=475 PU=210 LR=240 LRA=413





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