ABB BALDOR RELIANCE

Customer information packet

EM7064T

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/28/2026 6:05:09 AM

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**	H	**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. @ 25ºC**	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

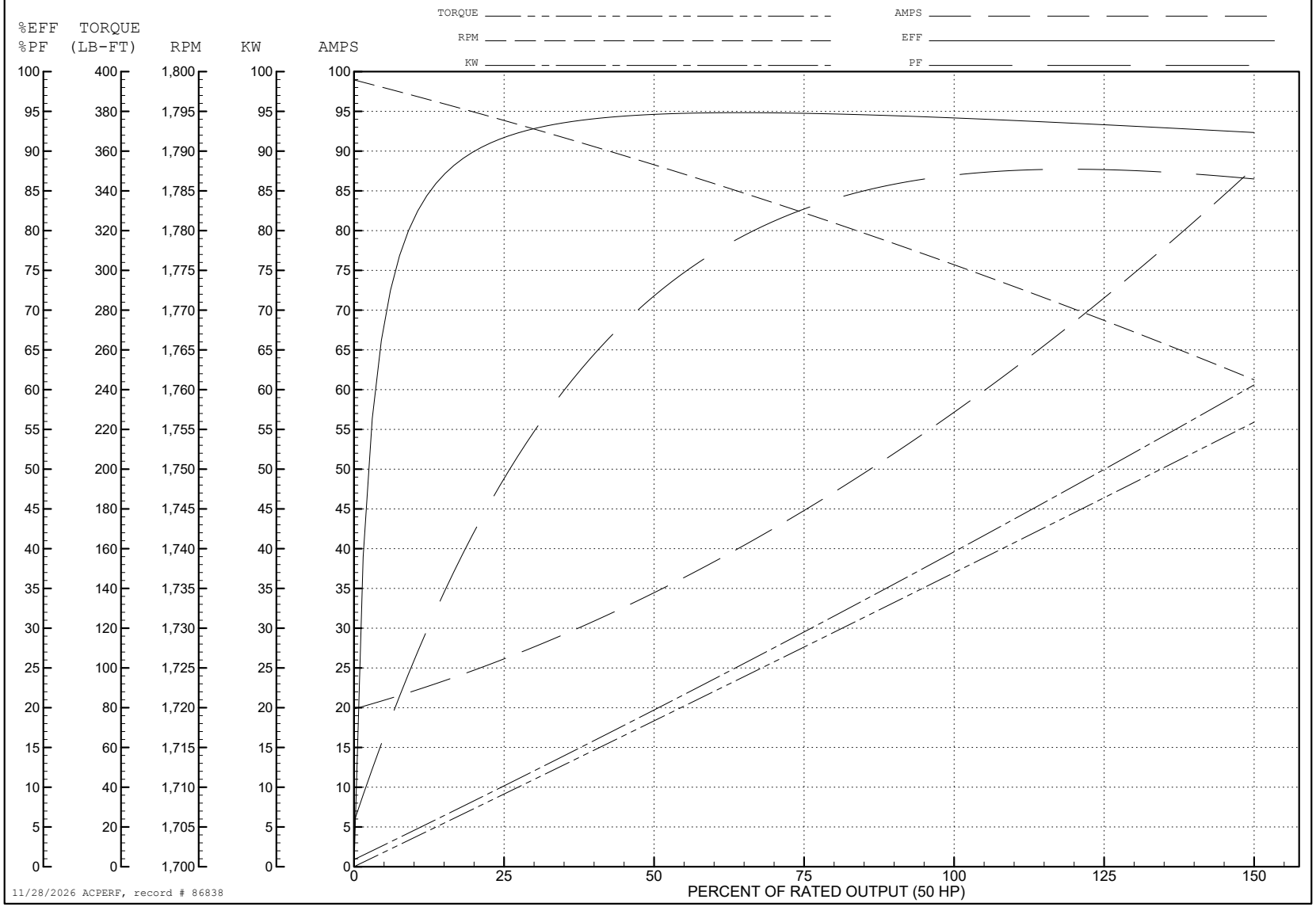
ABB Motors and Mechanical Inc.

WINDING # 12WGZ279

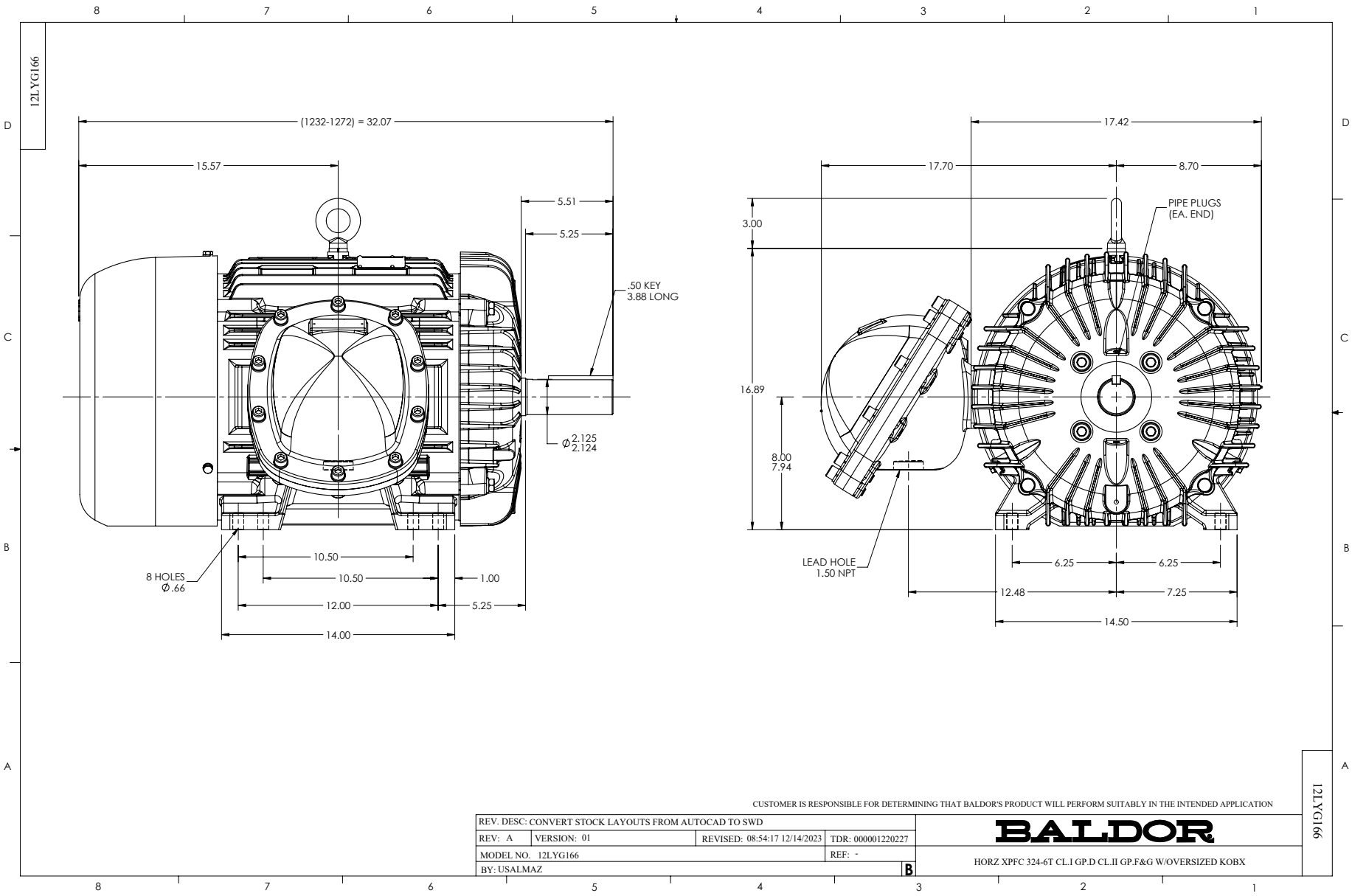
50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

Typical performance - not guaranteed values.

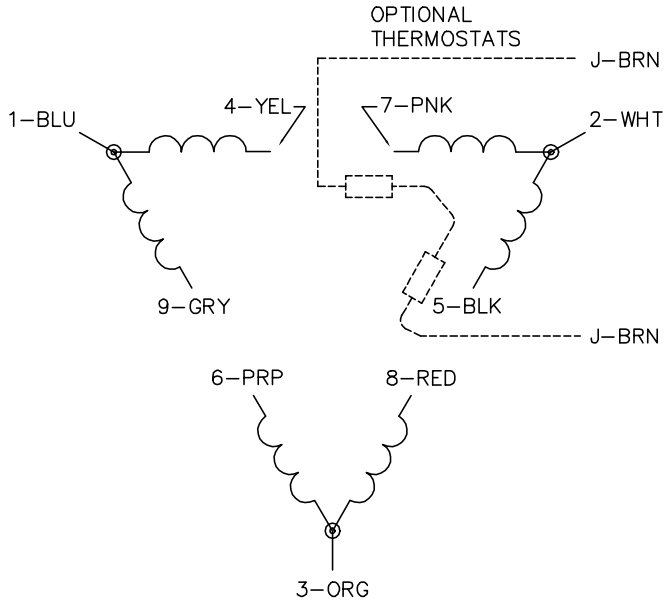
TORQUES(LB-FT): PO=475 PU=210 LR=240 LRA=413

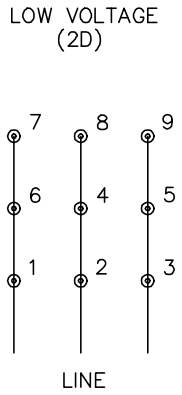


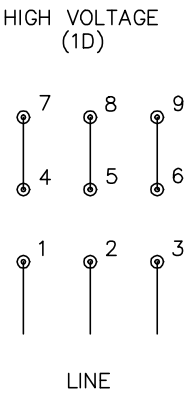
11/28/2026 ACPERF, record # 86838


12LYG166
(1232-1272) = 32.07
15.57
5.51
5.25
.50 KEY
3.88 LONG
Ø2.125
2.124
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.42
17.70
8.70
PIPE PLUGS
(EA. END)
3.00
16.89
8.00
7.94
LEAD HOLE
1.50 NPT
6.25
6.25
12.48
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: A
VERSION: 01
REVISED: 08:54:17 12/14/2023
TDR: 000001220227
MODEL NO. 12LYG166
REF: -
BY: USALMAZ
B
BALDOR
HORZ XPFC 324-6T CL.I GP.D CL.II GP.F&G W/OVERSIZED KOBX
12LYG166

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.

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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1