BALDOR • RELIANCE

Customer information packet

CCPX32446T

54M 4P XPFC HOR 324TCY TSTAT CP FEAT INV
Class - CLI GP C,D; CLII GP E,F,G
Division - Division I

12/23/2025 1:50:35 AM

Specifications

Enclosure	XPFC
Frame	324TCY
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ
	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
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	6
Current @ Voltage	96.000 A @ 230.0 V
	90.000 A @ 190.0 V
	48.000 A @ 460.0 V
	45.000 A @ 380.0 V
	102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover

Part detail

Revision	F
Type	AC
Mech. spec.	12J224
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYJ224
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	04-18-2019

Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	45.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	Hazardous Location Motor
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	Shaft 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

NP2033XPSLEV									
NO.				**CC**	010A				
S/N				**TEMP CODE**	T3C				
SPEC.	12J224Y276G1			**INV.TYPE**	PWM				
CAT.NO.	CCPX32446T			**C HP FR**	60	**C HP TO**	90		
HP	40//30			**CT HZ FROM**	6	**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6	**VT HZ TO**	60		
AMPS	96/48//90/45			**MAG CUR**	21				
RPM	1775//1480			**MX RPM**	2700				
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	94.1		
SER.F.	1.00	**DES**	A	**SL HZ**	0.83	**WK2**	7.19		
FRAME	324TCY	**RATING**	40C AMB-CONT						
BLANK	55C AMB @ 1.0 SF, 60C RISE								
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55				

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

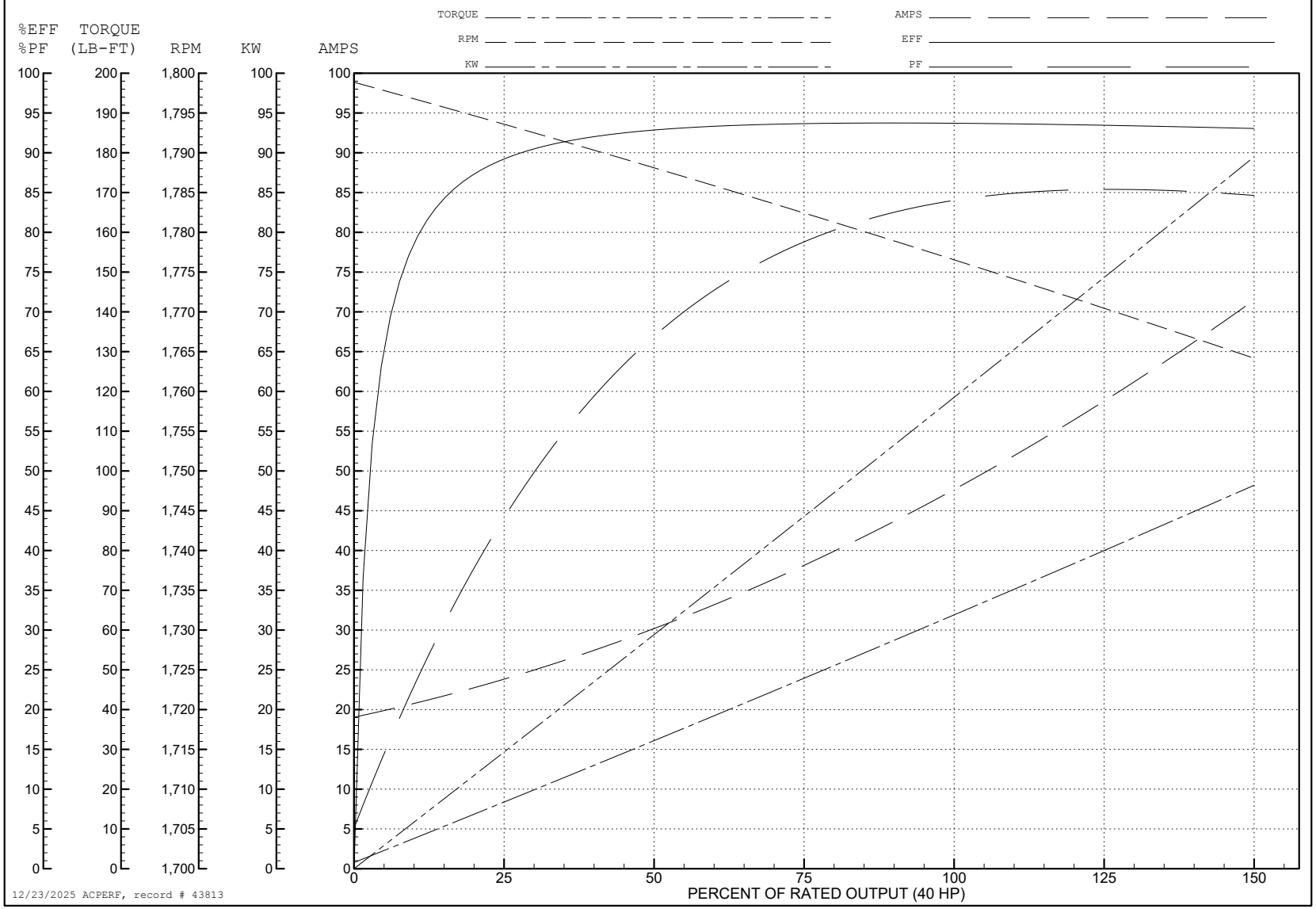
ABB Motors and Mechanical Inc.

WINDING # 12WGY276

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

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

Typical performance - not guaranteed values.



AC Induction Motor Performance Data
Record # 75684
Typical performance - not guaranteed values

Winding: 12WGY276-R040	**Type:** 1254M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			40//30	**Full Load Torque**	107 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			96/48//90/45	**Breakdown Torque**	383 LB-FT
R.P.M.			1775//1480	**Pull-up Torque**	208 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	233 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	340 A
Service Factor (S.F.)			1	**No-load Current**	20.49 A
NEMA Nom. Eff.	94.1	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.145 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps				**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	30.4
				Rotor inertia	7.19 LB-FT2

Load Characteristics 380 V, 50 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	65	75	81	83	85
Efficiency	89.7	93.3	94	94	93.5	92.5
Speed	1495	1489	1485	1479	1474	1469
Line amperes	22.95	28.58	36.28	44.78	54.64	64.99

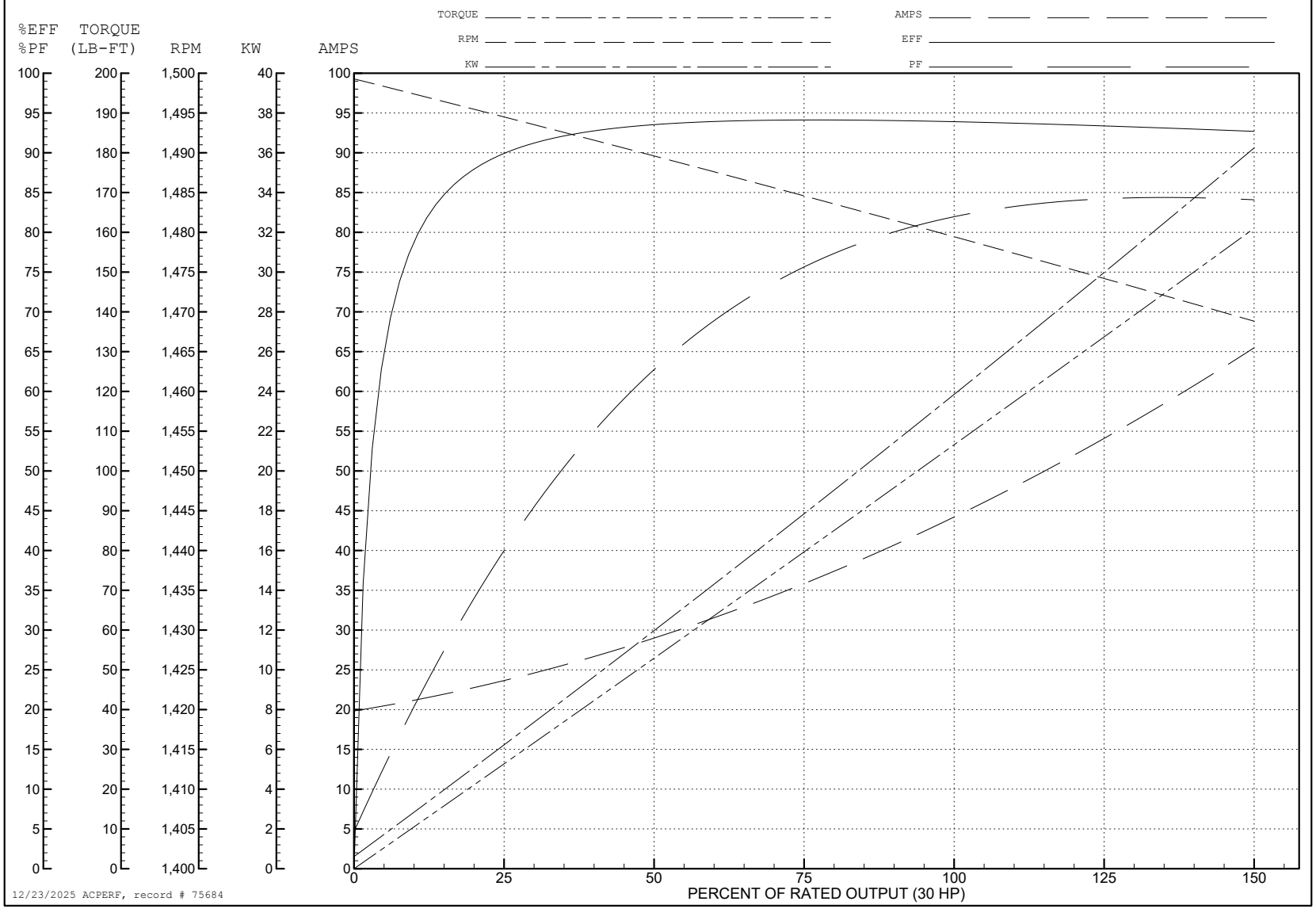
ABB Motors and Mechanical Inc.

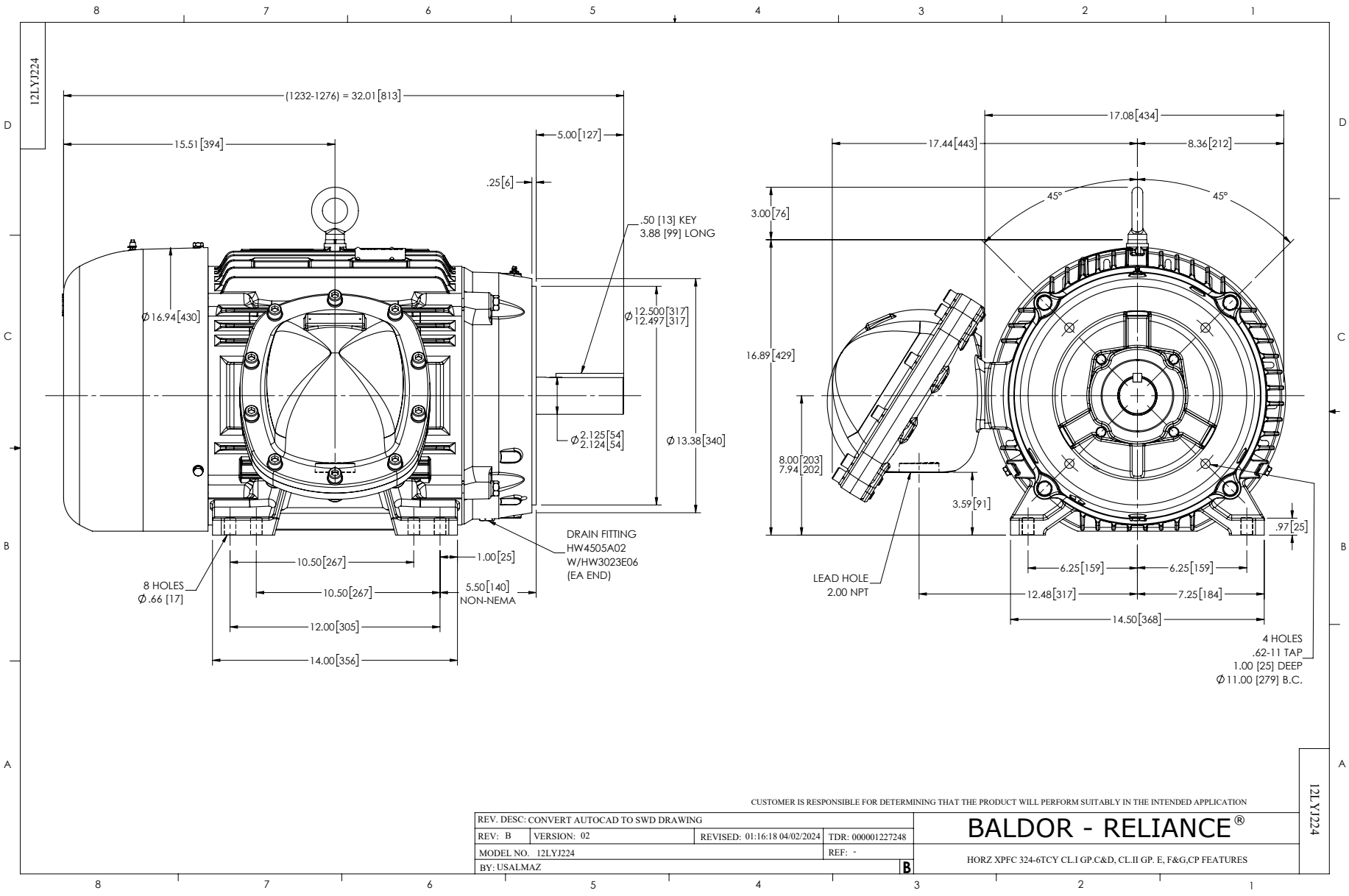
WINDING # 12WGY276

30 HP 3 PH 50 HZ 1479 RPM 380 V 1254M

TORQUES(LB-FT): PO=383 PU=208 LR=233 LRA=340

Typical performance - not guaranteed values.

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DRAIN FITTING
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.97[25]
LEAD HOLE
2.00 NPT
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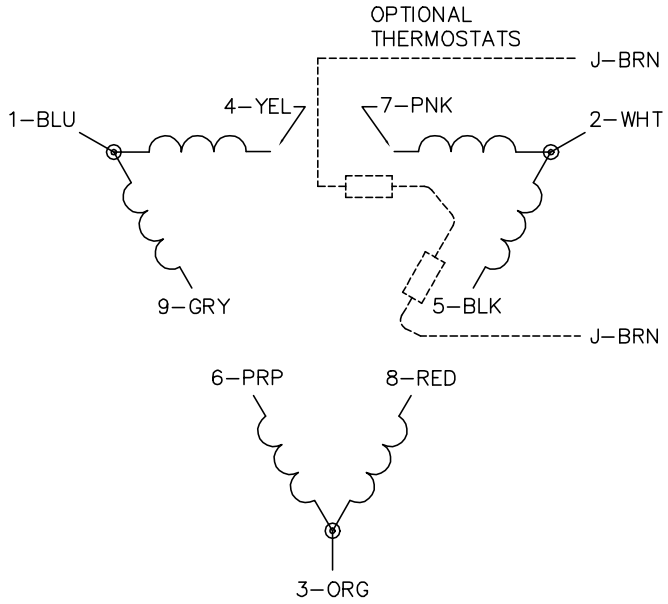
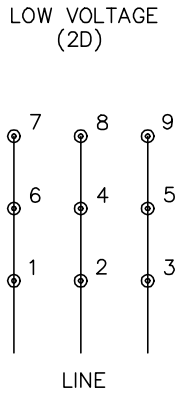
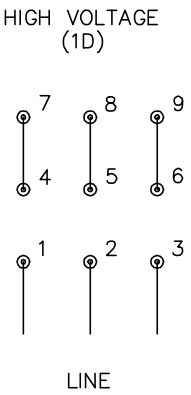
7.25[184]
14.50[368]
4 HOLES
.62-11 TAP
1.00 [25] DEEP
Ø11.00 [279] B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: B
VERSION: 02
REVISED: 01:16:18 04/02/2024
TDR: 000001227248
MODEL NO. 12LYJ224
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ XPFC 324-6TCY CL.I GP.C&D, CL.II GP. E, F&G,CP FEATURES
12LYJ224

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