ABB BALDOR RELIANCE

Customer information packet

CXM32442T

40//30HP, 1775//1480RPM, 3PH, 60//50HZ, 324T
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.
9/7/2026 11:16:25 AM

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	30.000 HP @ 50 HZ
	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 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.	
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LY-000-644
Eff. date	05-07-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-17-2021

Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
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	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	82
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP0887XPSLEV										
NO.				**CC**	010A					
S/N				**TEMP CODE**	T3C					
SPEC.	12-0000-2029			**INV.TYPE**	PWM					
CAT.NO.	CXM32442T			**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**	39/19.5					
RPM	1775//1480			**MX RPM**	2700					
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	94.1			
SER.F.	1.15	**DES**	A	**SL HZ**	0.83	**WK2**	7.19			
FRAME	324TC	**RATING**	40C AMB-CONT							
	NEMA MG-1 PART 5, IP54									
	1.15 SF ON SINE WAVE									

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

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

Nameplate Data			
Rated Output (HP)			40
Volts			230/460
Full Load Amps			96/48
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	94.1	**Power Factor**	82
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	118 LB-FT
Start Configuration	direct on line
Breakdown Torque	386 LB-FT
Pull-up Torque	193 LB-FT
Locked-rotor Torque	216 LB-FT
Starting Current	338 A
No-load Current	19.9 A
Line-line Res. @ 25ºC	0.14898 Ω
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

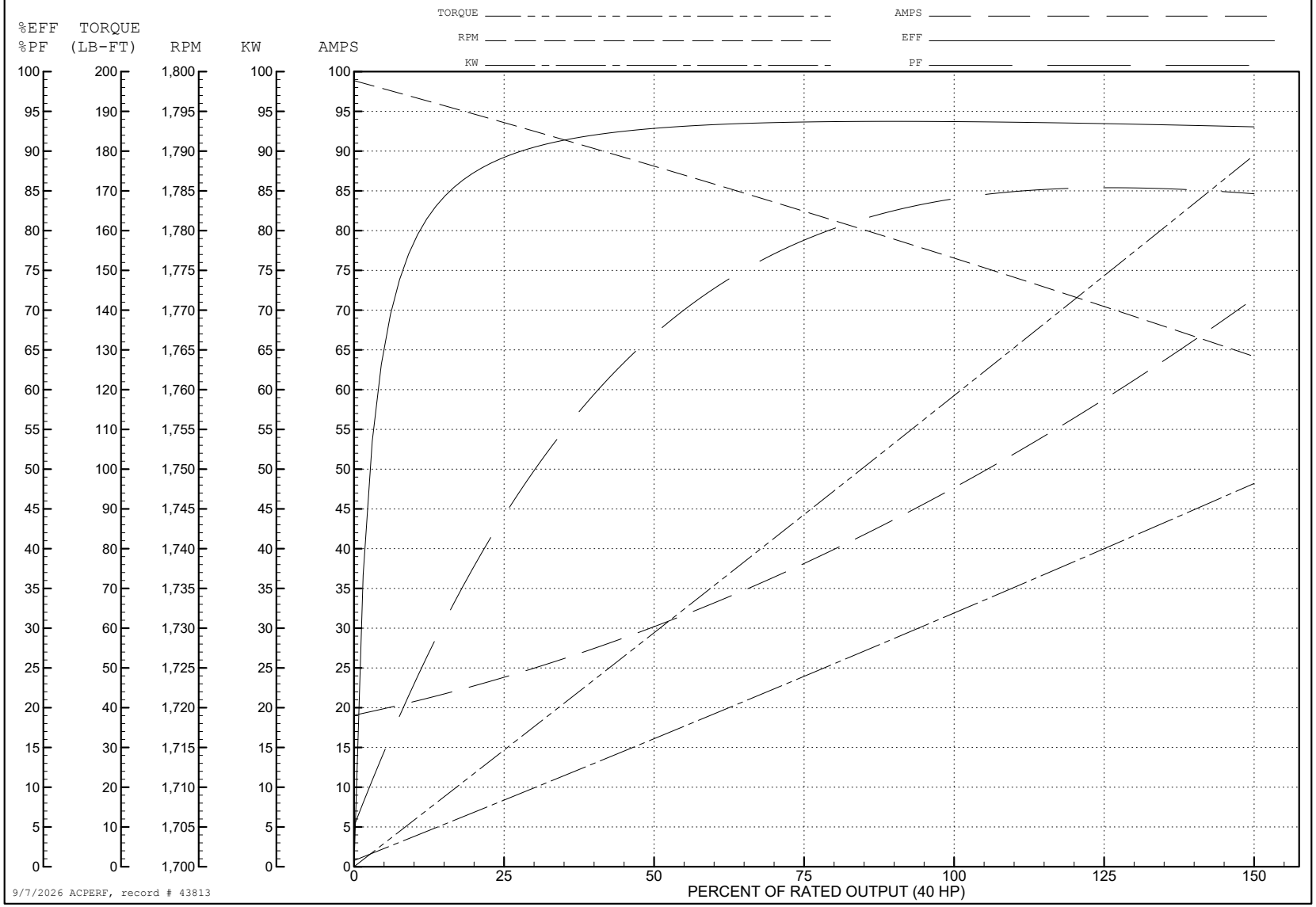
ABB Motors and Mechanical Inc.

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



9/7/2026 ACPERF, record # 43813

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

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

Nameplate Data			
Rated Output (HP)			40//30
Volts			230/460//190/380
Full Load Amps			96/48//90/45
R.P.M.			1775//1480
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	94.1	**Power Factor**	82
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	107 LB-FT
Start Configuration	direct on line
Breakdown Torque	383 LB-FT
Pull-up Torque	208 LB-FT
Locked-rotor Torque	233 LB-FT
Starting Current	340 A
No-load Current	20.49 A
Line-line Res. @ 25ºC	0.145 Ω
Temp. Rise @ Rated Load	47°C
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

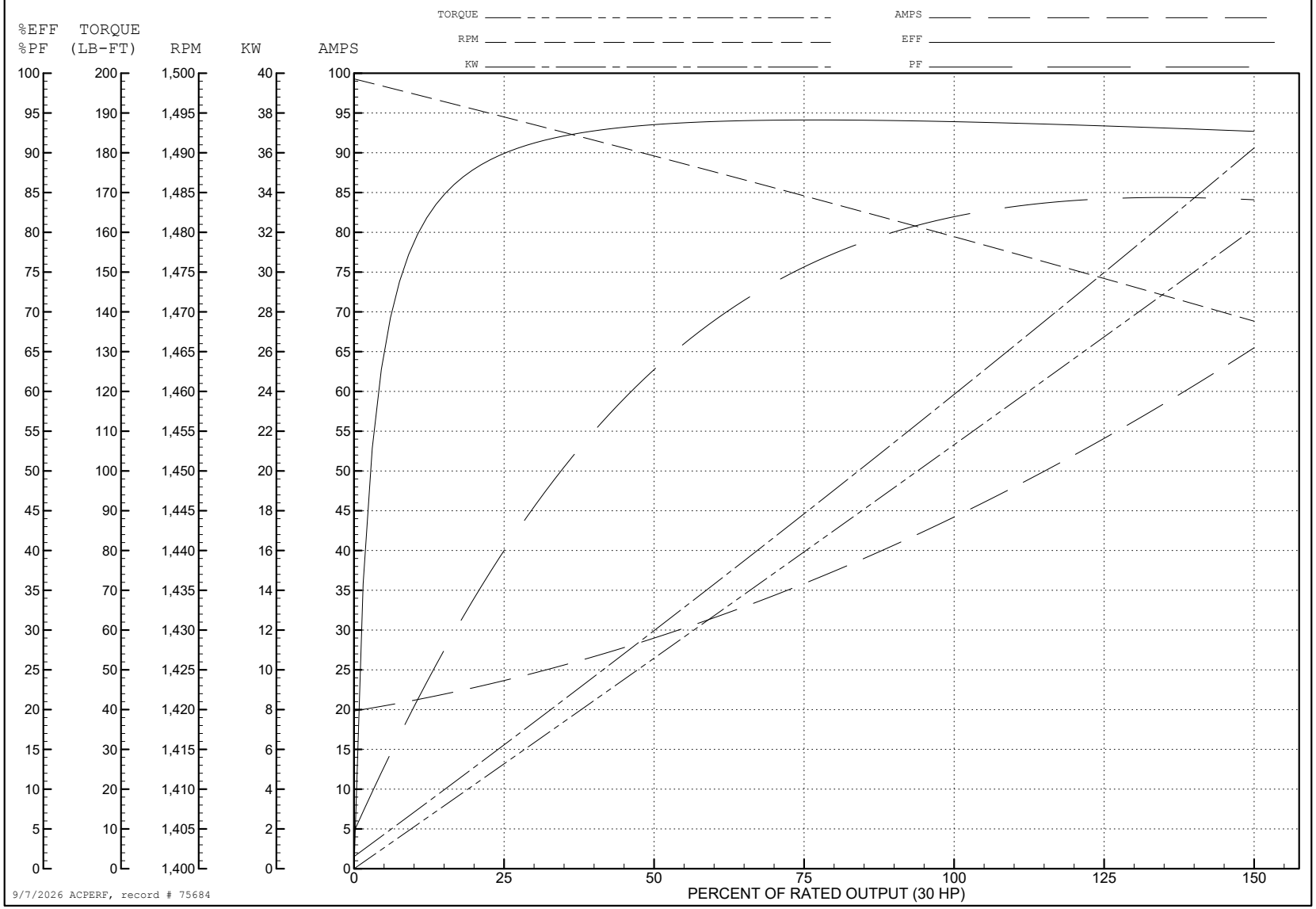
ABB Motors and Mechanical Inc.

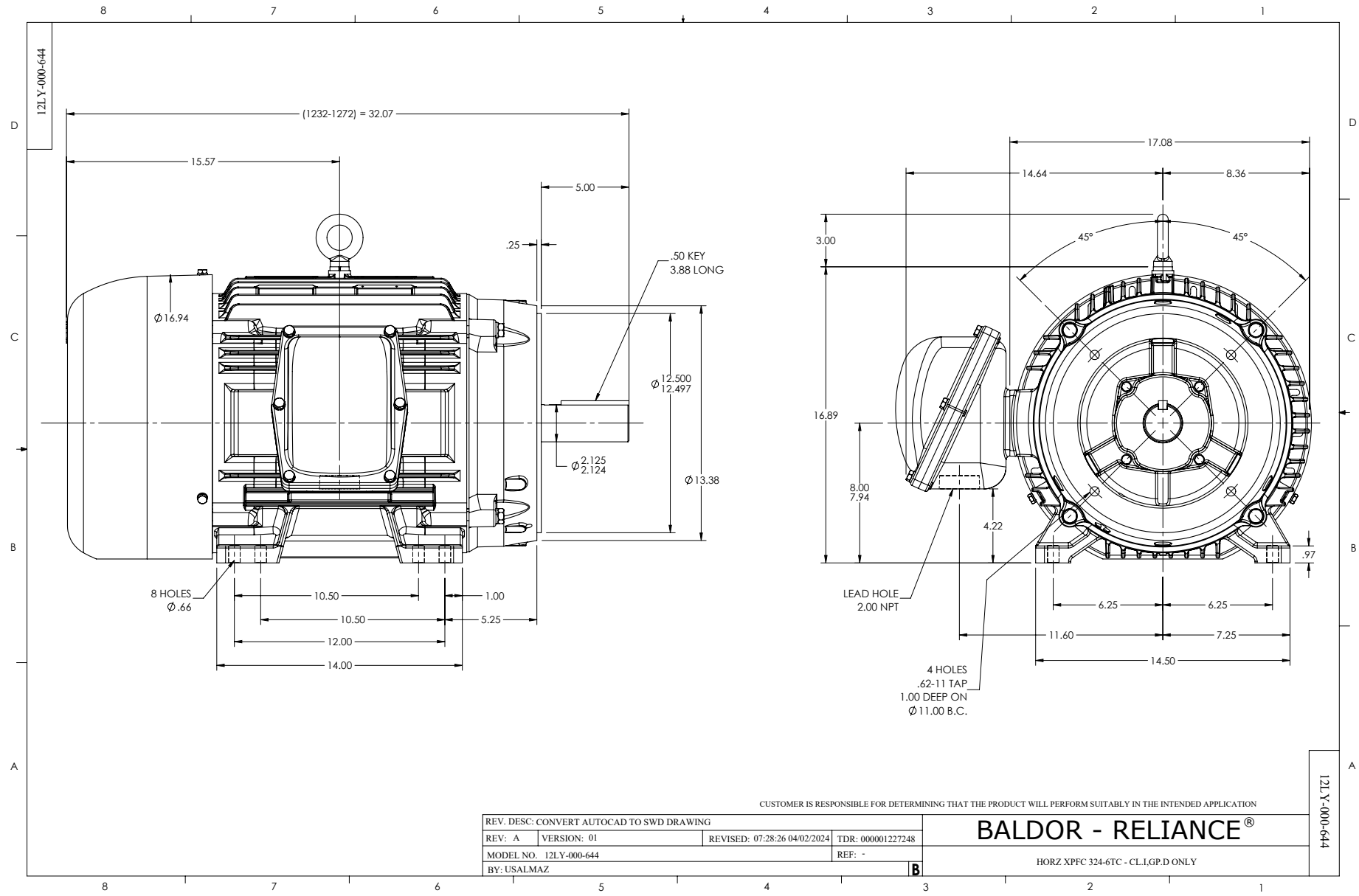
WINDING # 12WGY276

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

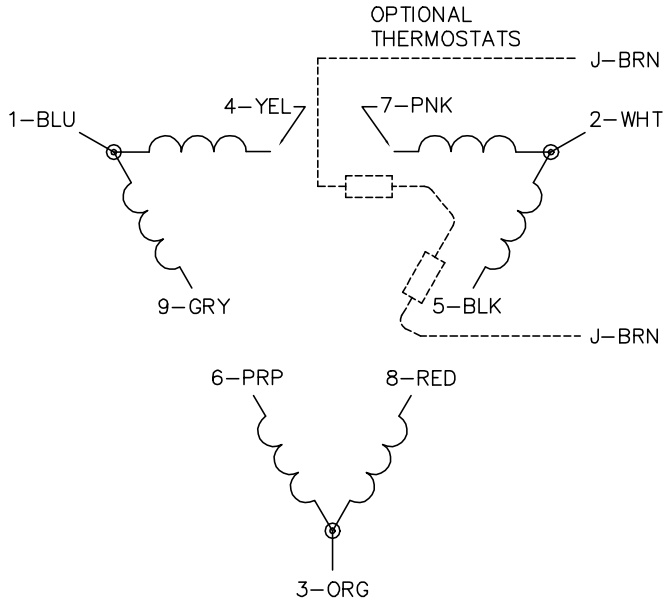
Typical performance - not guaranteed values.

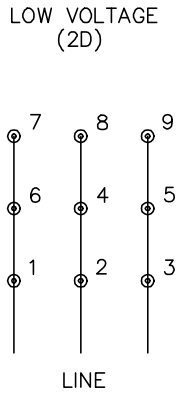
TORQUES(LB-FT): PO=383 PU=208 LR=233 LRA=340

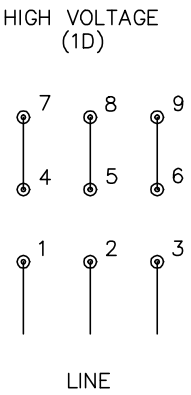



12LY-000-644
(1232-1272) = 32.07
15.57
5.00
.25
.50 KEY
3.88 LONG
Ø16.94
Ø12.500
12.497
Ø2.125
2.124
Ø13.38
8 HOLES
Ø.66
10.50
1.00
10.50
5.25
12.00
14.00
17.08
14.64
8.36
3.00
45°
45°
16.89
8.00
7.94
4.22
.97
LEAD HOLE
2.00 NPT
6.25
6.25
11.60
7.25
14.50
4 HOLES
.62-11 TAP
1.00 DEEP ON
Ø11.00 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: A
VERSION: 01
REVISED: 07:28:26 04/02/2024
TDR: 000001227748
MODEL NO. 12LY-000-644
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ XPFC 324-6TC - CL.I,GP.D ONLY
12LY-000-644

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