



Customer information packet

CPX32446T

40HP, 1775//1480RPM, 3PH, 60HZ, 324TY, XPFC

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TY
Frame Material	Iron
Frequency	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	UL 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
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
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %

Part detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LY-000-157
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-19-2019

Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
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	Not Inverter
IP Rating	IP55
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	32.24 IN
Power Factor	82
Product Family	Chemical Process Features
Pulley Face Code	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
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

NP2033XPSLEV												
NO.						CC	010A					
S/N						TEMP CODE			T3C			
SPEC.	12-0000-0488					INV.TYPE		PWM				
CAT.NO.	CPX32446T					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	40/20						
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	324TY	RATING		40C AMB-CONT								
BLANK	55C AMB @ 1.0SF,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. @ 25°C		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

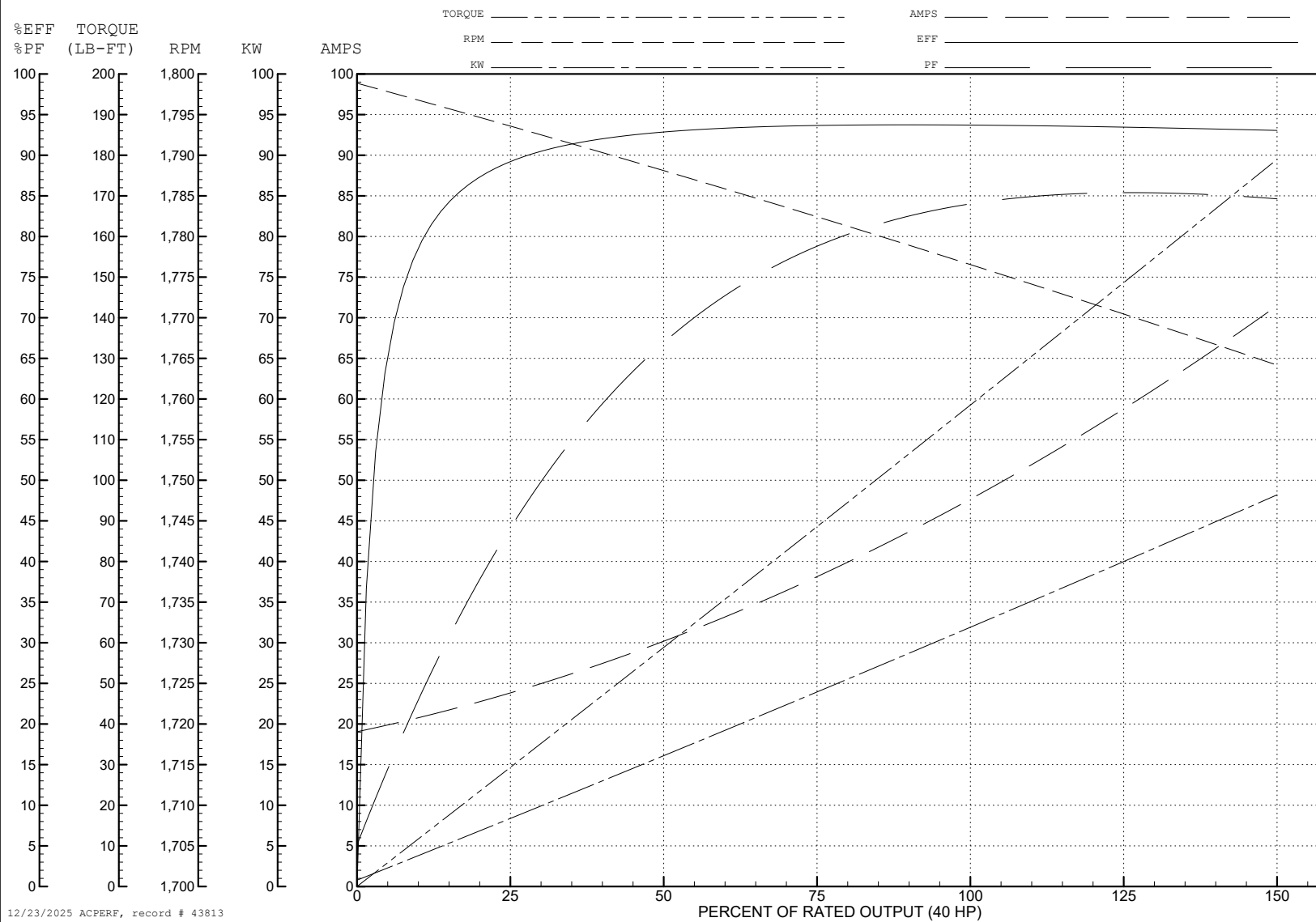
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WINDING # 12WGY276

Typical performance - not guaranteed values.

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

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



AC Induction Motor Performance Data

Record # 74483

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		106 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		96/48//90/45	Breakdown Torque		373 LB-FT		
R.P.M.		1775//1480	Pull-up Torque		203 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		227 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		331 A
Service Factor (S.F.)			1	No-load Current		19.39 A	
NEMA Nom. Eff.		94.1	Power Factor	82	Line-line Res. @ 25°C		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	44	66	77	82	84	85
Efficiency	88.7	92.8	93.7	93.1	92.8	92.5
Speed	1494	1489	1484	1479	1474	1468
Line amperes	21.96	27.73	35.61	44.25	54.18	64.6

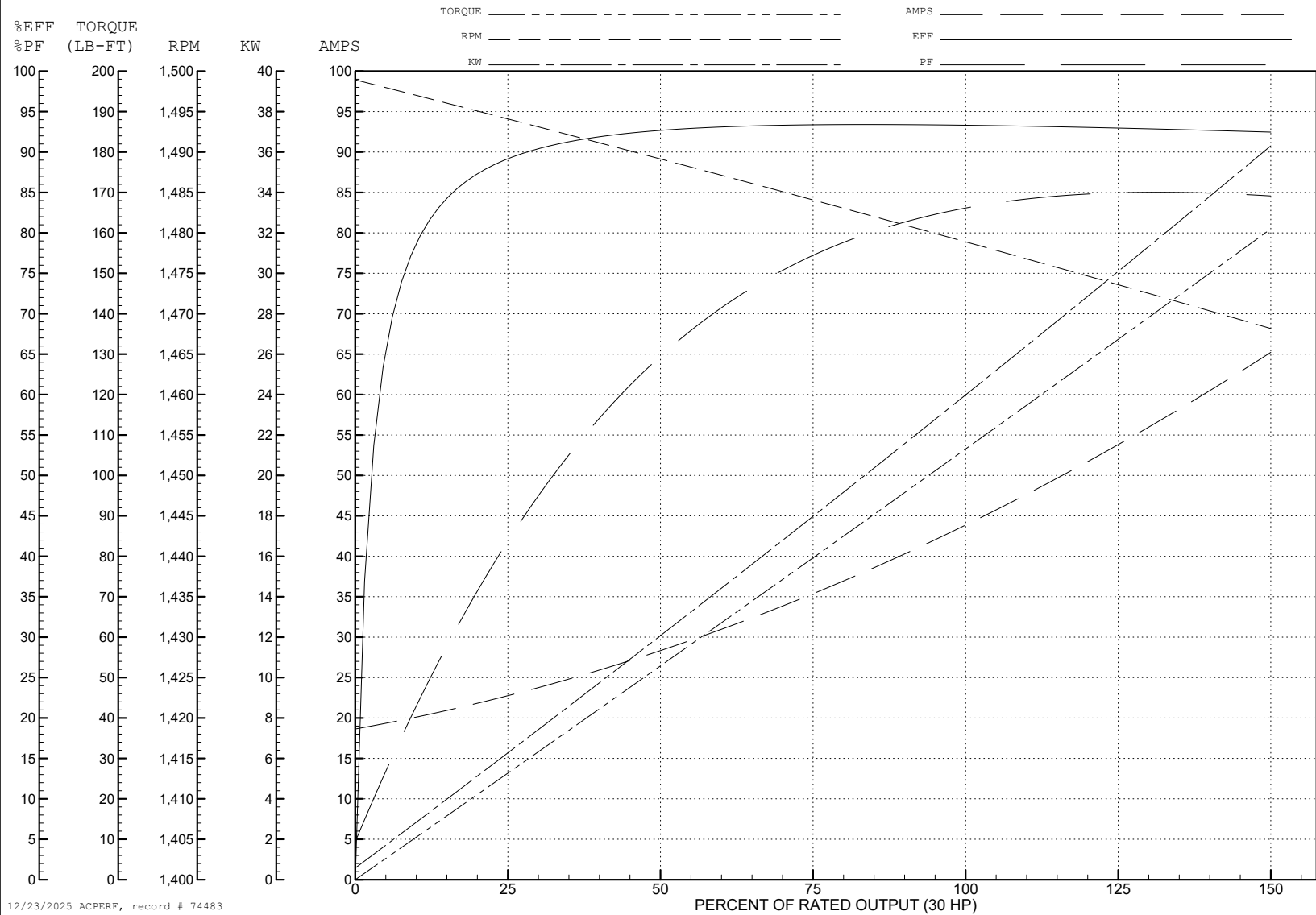
ABB Motors and Mechanical Inc.

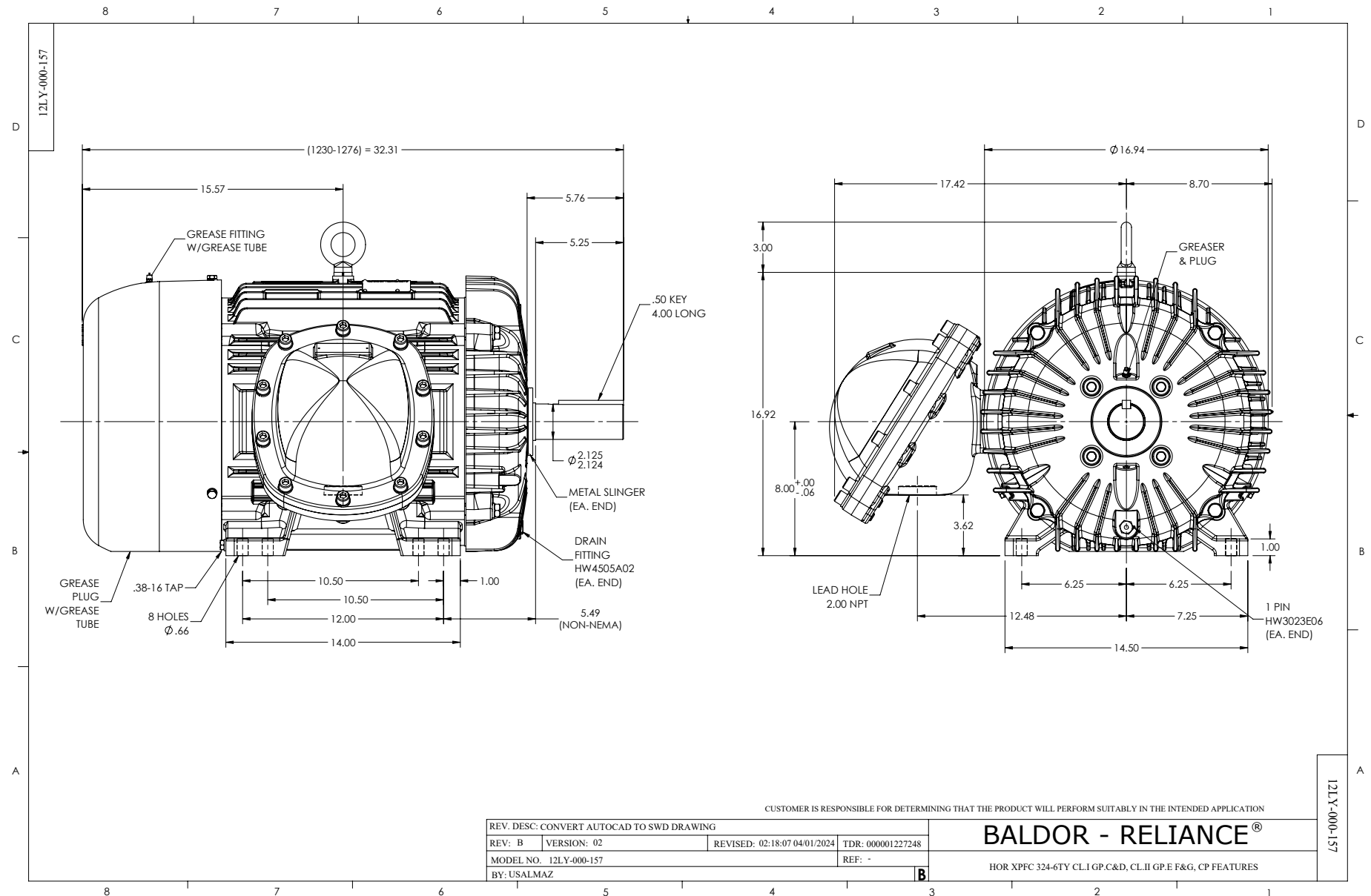
WINDING # 12WGY276

Typical performance - not guaranteed values.

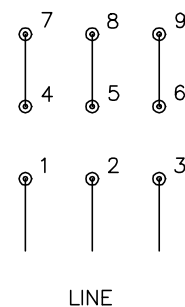
30 HP 3 PH 50 HZ 1479 RPM 380 V 1254M

TORQUES (LB-FT): PO=373 PU=203 LR=227 LRA=331





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.

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: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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