ABB BALDOR RELIANCE

Customer information packet

IDXM7562T-C

54M 4P XPFC HOR 324T T'STATS INV DUTY
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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	15
Current @ Voltage	48.000 A @ 460.0 V
	96.000 A @ 230.0 V
	102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	F
Type	AC
Mech. spec.	12F720
Base	
Status	INA/A
Elec. spec.	12WGY276
Layout	12LYF720
Eff. date	03-10-2021
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	05-29-2018

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Duty
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	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

NP0681XPSLEV

NO.				**CC**	010A				
S/N				**TEMP CODE**	T3C				
SPEC.	12F720Y276G1			**INV.TYPE**	PWM				
CAT.NO.				**C HP FR**	60	**C HP TO**	90		
HP	40			**CT HZ FROM**	15			**CT HZ TO**	60
VOLTS	230/460			**VT HZ FROM**	6			**VT HZ TO**	60
AMPS	96/48			**MAG CUR**	39/19.5				
RPM	1775			**MX RPM**	2700				
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	94.1		
SER.F.	1.00	**DES**	A	**SL HZ**	0.85	**WK2**	7.19		
FRAME	324T	**RATING**	40C AMB-CONT						
	1.15SF ON SINEWAVE								

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

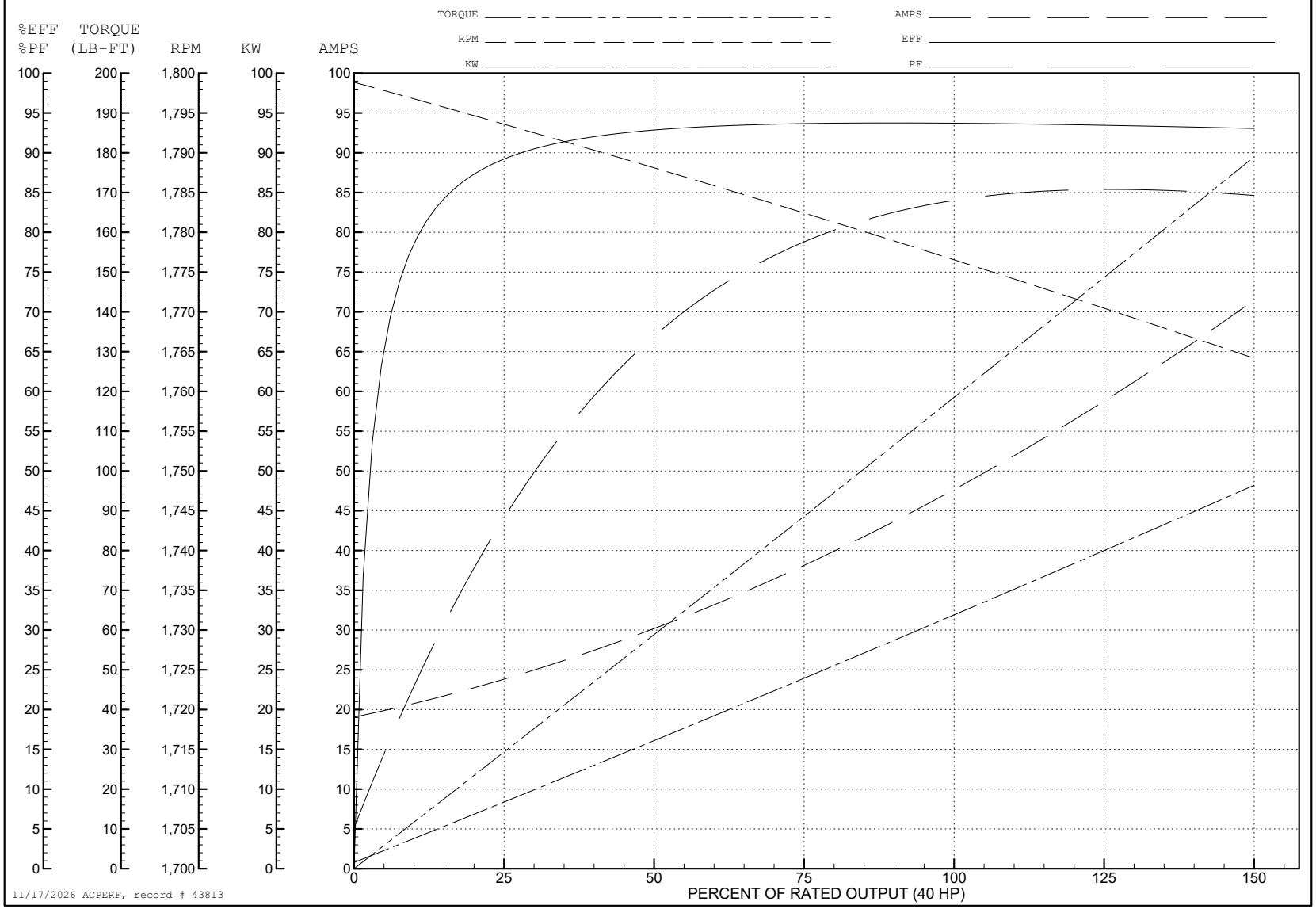
ABB Motors and Mechanical Inc.

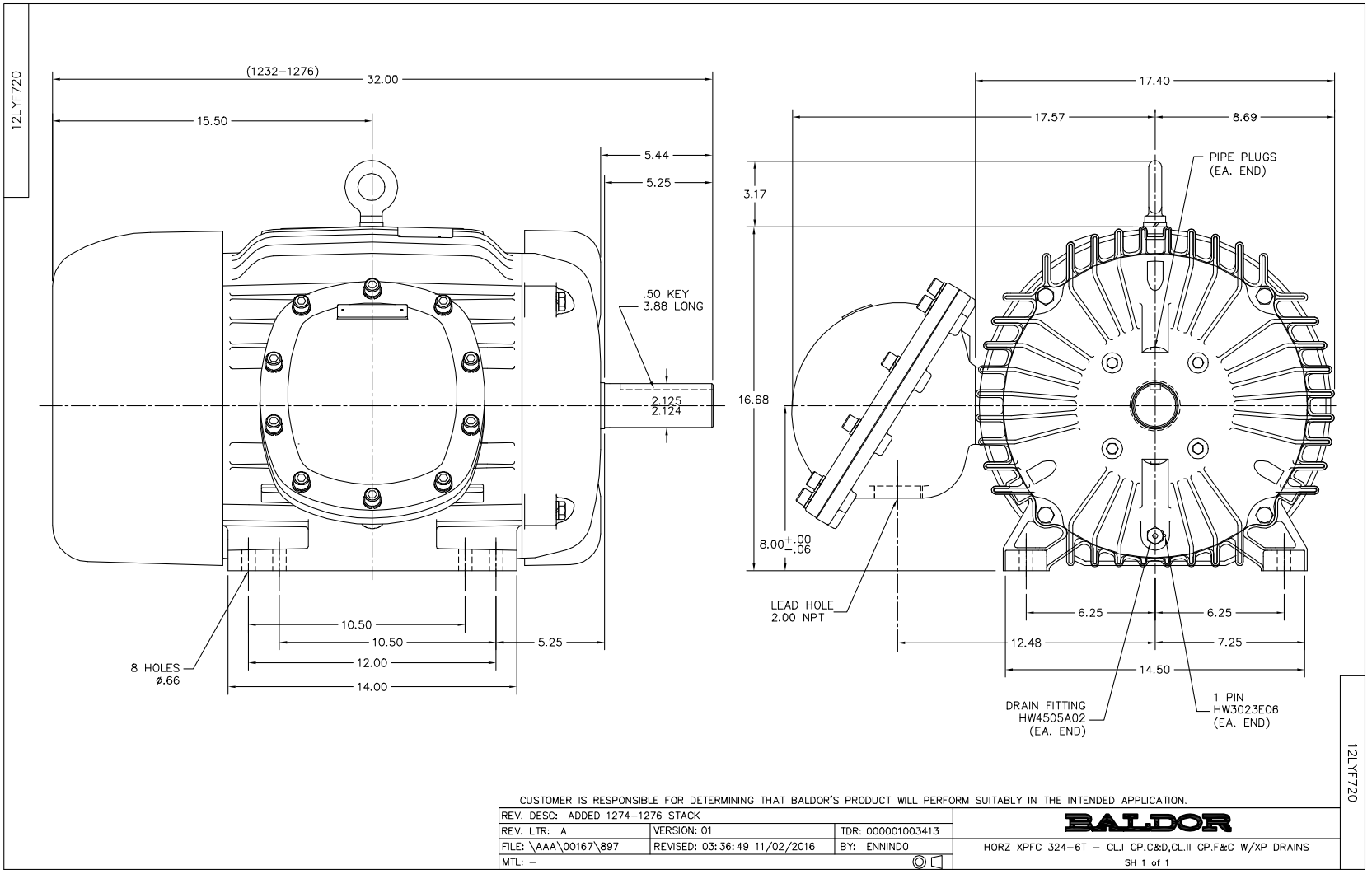
WINDING # 12WGY276

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

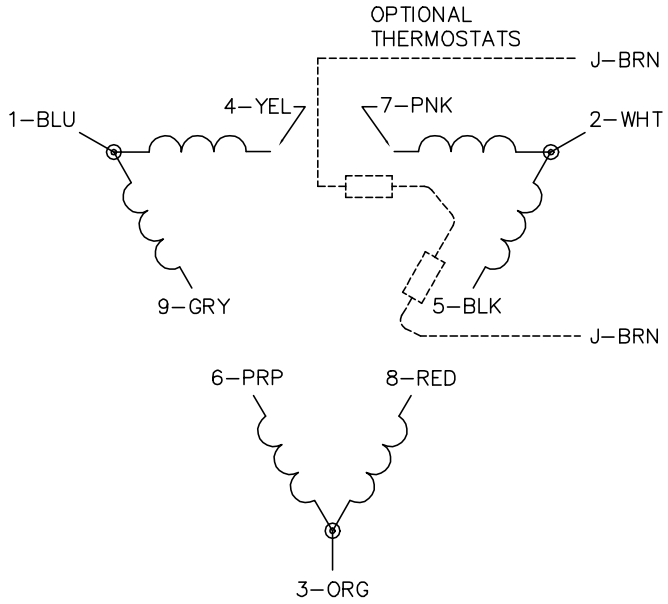
Typical performance - not guaranteed values.

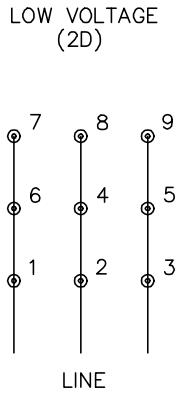
TORQUES(LB-FT): PO=386 PU=193 LR=216 LRA=338

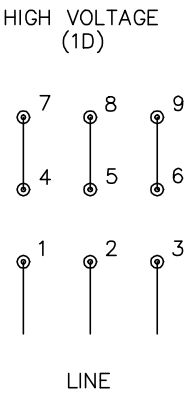



12LYF720
(1232–1276)
32.00
15.50
5.44
5.25
.50 KEY
3.88 LONG
2.125
2.124
10.50
10.50
12.00
14.00
5.25
8 HOLES
ø.66
17.40
17.57
8.69
PIPE PLUGS
(EA. END)
3.17
16.68
8.00 +.00 −.06
LEAD HOLE
2.00 NPT
6.25
6.25
12.48
7.25
14.50
DRAIN FITTING
HW4505A02
(EA. END)
1 PIN
HW3023E06
(EA. END)
12LYF720
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADDED 1274–1276 STACK
REV. LTR: A
VERSION: 01
TDR: 000001003413
FILE: \AAA\00167\897
REVISED: 03:36:49 11/02/2016
BY: ENNINDO
MTL: –
BALDOR
HORZ XPFC 324–6T – CL.I GP.C&D,CL.II GP.F&G W/XP DRAINS
SH 1 of 1

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