ABB BALDOR RELIANCE

Customer information packet

XM32522T

50//40HP, 3540//2945RPM, 3PH, 60//50HZ, 326T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	326TS
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	50.000 HP @ 60 HZ
	40.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 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	110.000 A @ 190.0 V
	112.000 A @ 230.0 V
	55.000 A @ 380.0 V
	56.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGA0178
Layout	12LYG783
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	04-30-2021

Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	55.0 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	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	90
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 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.	12-0000-2157			**INV.TYPE**	PWM				
CAT.NO.	XM32522T			**C HP FR**	60	**C HP TO**	90		
HP	50//40			**CT HZ FROM**	6			**CT HZ TO**	60
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60
AMPS	112/56//110/55			**MAG CUR**	30/15				
RPM	3540//2945			**MX RPM**	5400				
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93		
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	5.01		
FRAME	326TS	**RATING**	40C AMB-CONT						
	NEMA MG-1 PART 5, IP54								
	1.15 SF ON SINE WAVE								

AC Induction Motor Performance Data
Record # 88101
Typical performance - not guaranteed values

Winding: 12WGA0178-R001	**Type:** 1264M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			50
Volts			230/460//190/380
Full Load Amps			112/56//110/55
R.P.M.			3540//2945
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	93	**Power Factor**	90
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	75.06 LB-FT
Start Configuration	direct on line
Breakdown Torque	272 LB-FT
Pull-up Torque	80.31 LB-FT
Locked-rotor Torque	108 LB-FT
Starting Current	367 A
No-load Current	11.91 A
Line-line Res. @ 25ºC	0.106 Ω
Temp. Rise @ Rated Load	59°C
Locked-rotor Power Factor	21
Rotor inertia	5.01 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	75	89	92	93	93	93
Efficiency	87.6	92.2	93.3	93.5	93.3	93.1
Speed	3582	3570	3557	3544	3531	3515
Line amperes	18.73	29.41	41.54	54.31	67.65	82.14

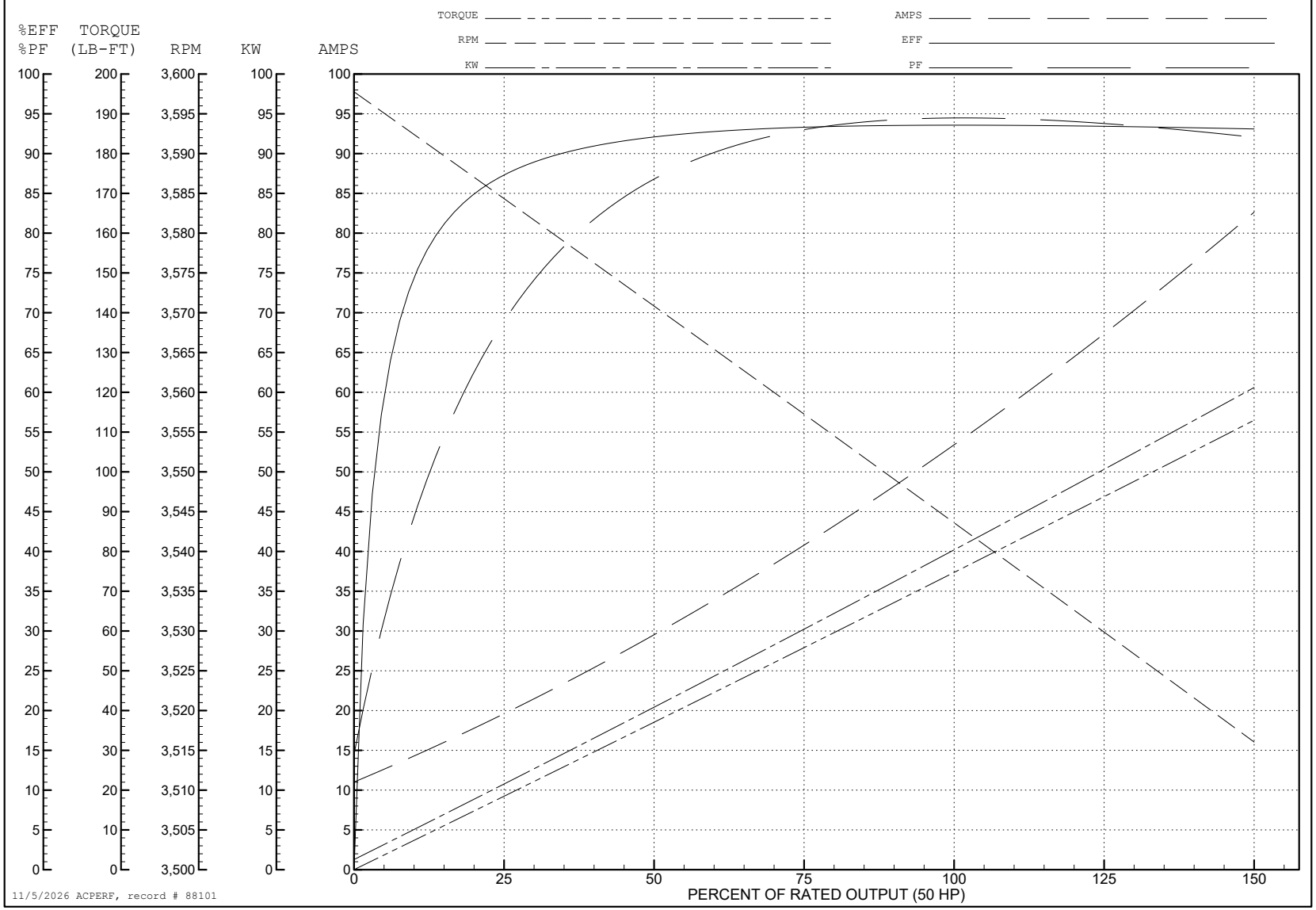
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WINDING # 12WGA0178

50 HP 3 PH 60 HZ 3544 RPM 460 V 1264M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=272 PU=80.31 LR=108 LRA=367



AC Induction Motor Performance Data
Record # 88103
Typical performance - not guaranteed values

Winding: 12WGA0178-R001	**Type:** 1264M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			50
Volts			230/460//190/380
Full Load Amps			112/56//110/55
R.P.M.			3540//2945
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	93	**Power Factor**	90
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	72.25 LB-FT
Start Configuration	direct on line
Breakdown Torque	264 LB-FT
Pull-up Torque	85.27 LB-FT
Locked-rotor Torque	114 LB-FT
Starting Current	360 A
No-load Current	11.83 A
Line-line Res. @ 25ºC	0.106 Ω
Temp. Rise @ Rated Load	56°C
Locked-rotor Power Factor	21
Rotor inertia	5.01 lb-ft²

Load Characteristics 380 V, 50 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	75	89	92	93	94	93
Efficiency	85.5	90.8	92.2	92.6	92.4	91.4
Speed	2984	2972	2960	2948	2935	2920
Line amperes	18.58	28.92	40.76	53.19	66.19	80.33

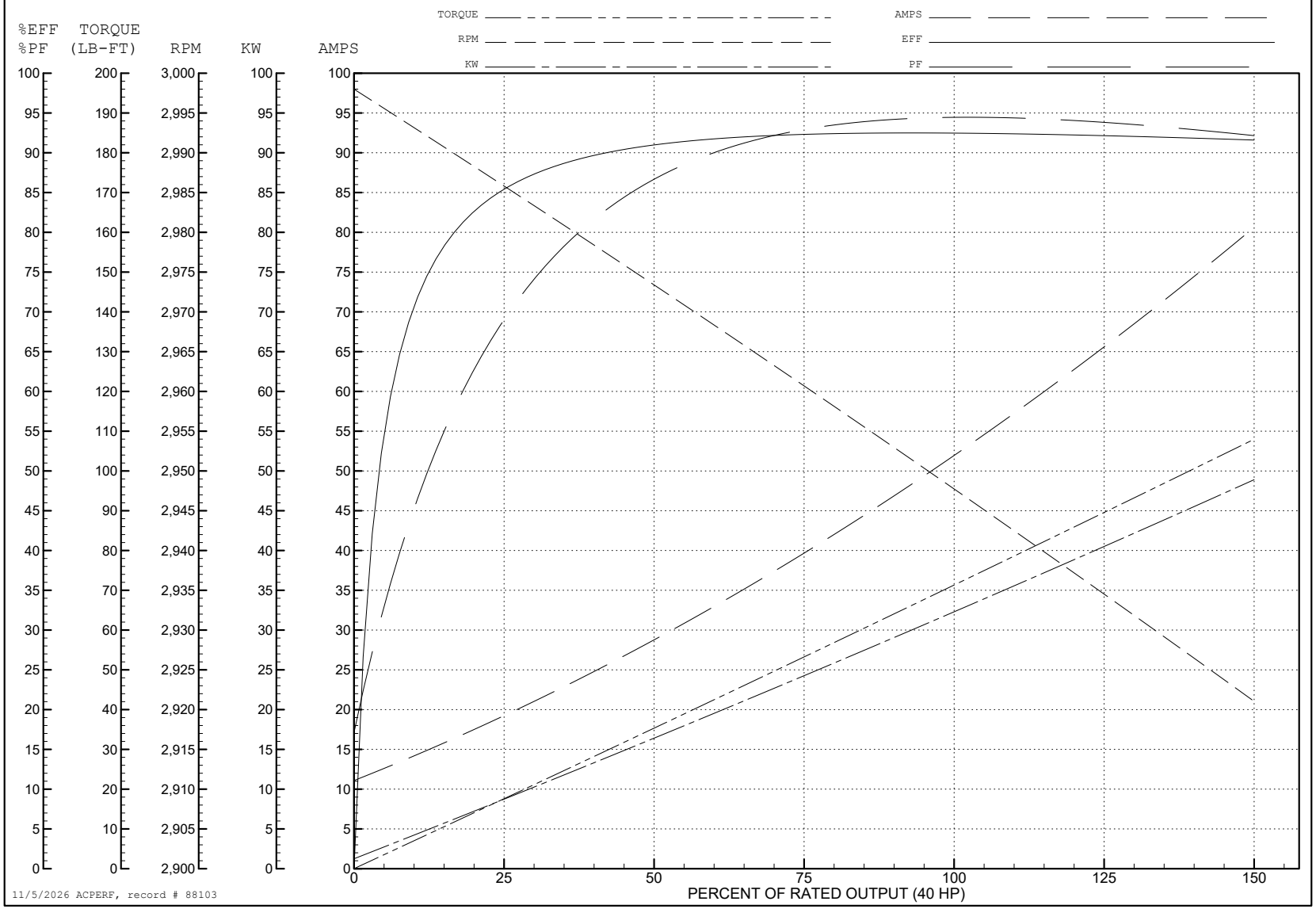
ABB Motors and Mechanical Inc.

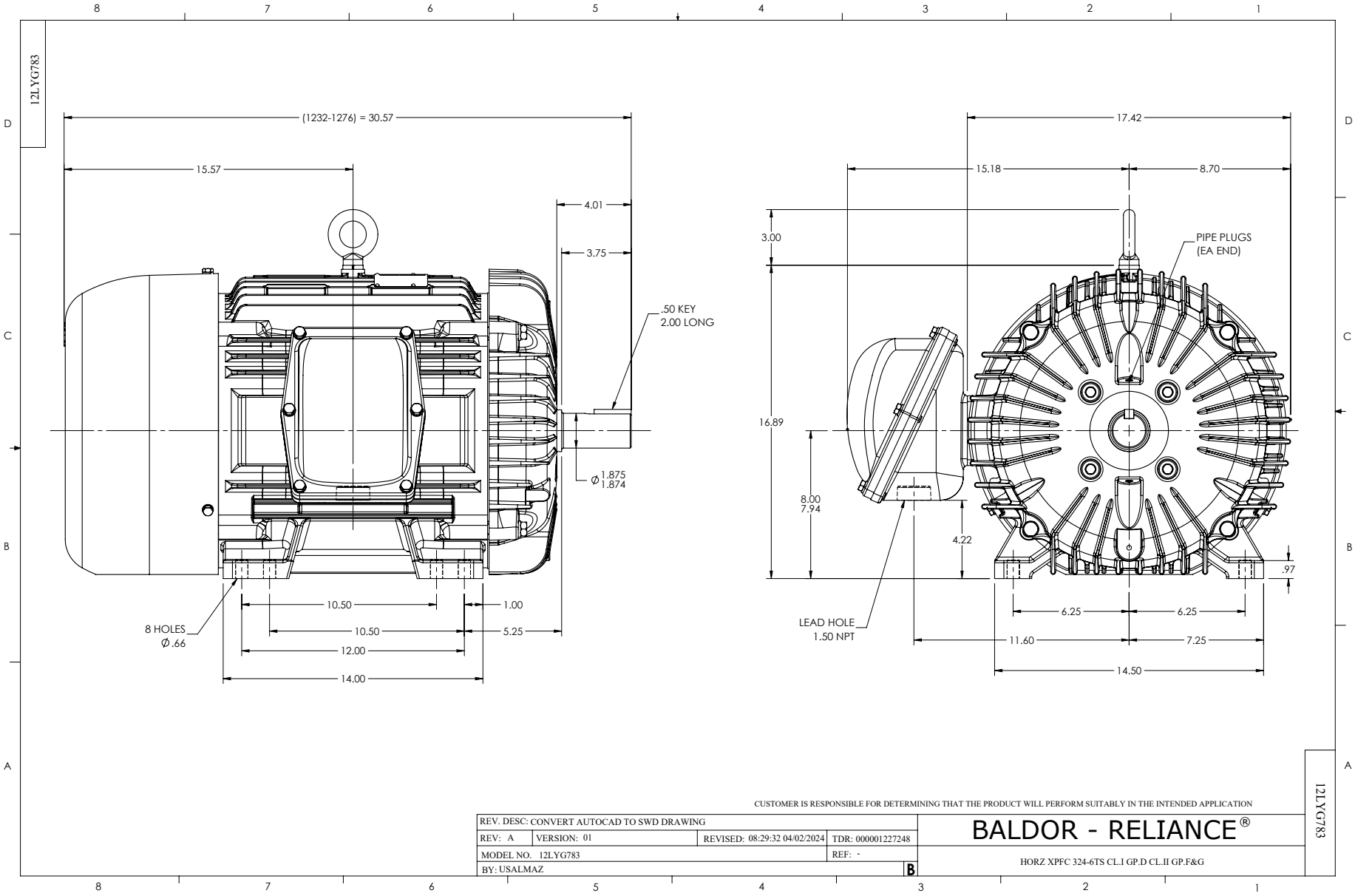
WINDING # 12WGA0178

40 HP 3 PH 50 HZ 2948 RPM 380 V 1264M

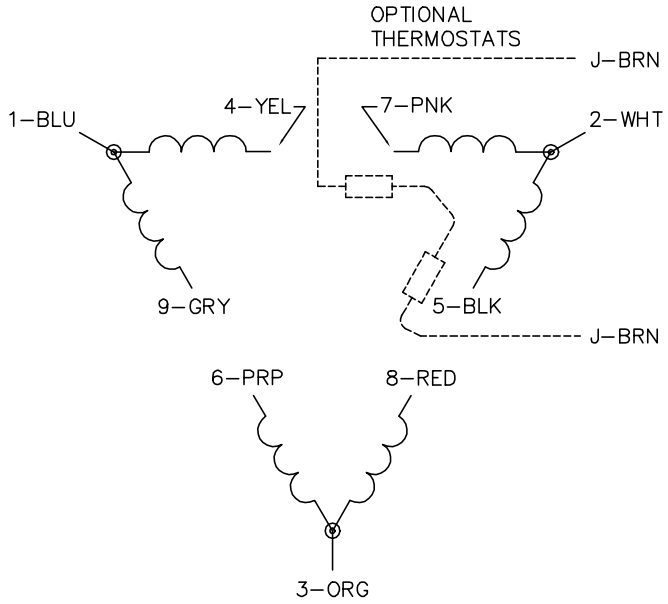
Typical performance - not guaranteed values.

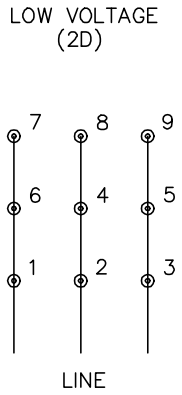
TORQUES(LB-FT): PO=264 PU=85.27 LR=114 LRA=360

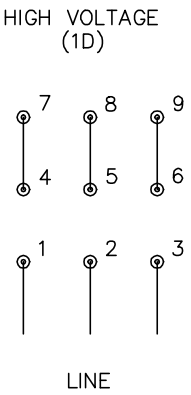



12LYG783
(1232-1276) = 30.57
15.57
4.01
3.75
.50 KEY
2.00 LONG
Ø 1.875
1.874
8 HOLES
Ø .66
10.50
1.00
10.50
5.25
12.00
14.00
17.42
15.18
8.70
3.00
PIPE PLUGS
(EA END)
16.89
8.00
7.94
4.22
.97
LEAD HOLE
1.50 NPT
6.25
6.25
11.60
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: A
VERSION: 01
REVISED: 08:29:32 04/02/2024
TDR: 000001227748
MODEL NO. 12LYG783
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ XPFC 324-6TS CL.I GP.D CL.II GP.F&G
12LYG783

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