

ABB BALDOR RELIANCE III

Customer information packet

XM32522T

50//40HP, 3540//2945RPM, 3PH, 60//50HZ, 326T

Class - CLI GP D; CLII GP F,G

Division - Division I

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				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		50		Full Load Torque		75.06 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		112/56//110/55		Breakdown Torque		272 LB-FT	
R.P.M.		3540//2945		Pull-up Torque		80.31 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		H	
Service Factor (S.F.)		1		No-load Current		11.91 A	
NEMA Nom. Eff.		93		Power Factor		90	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
						Locked-rotor Power Factor	
						Rotor inertia	

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

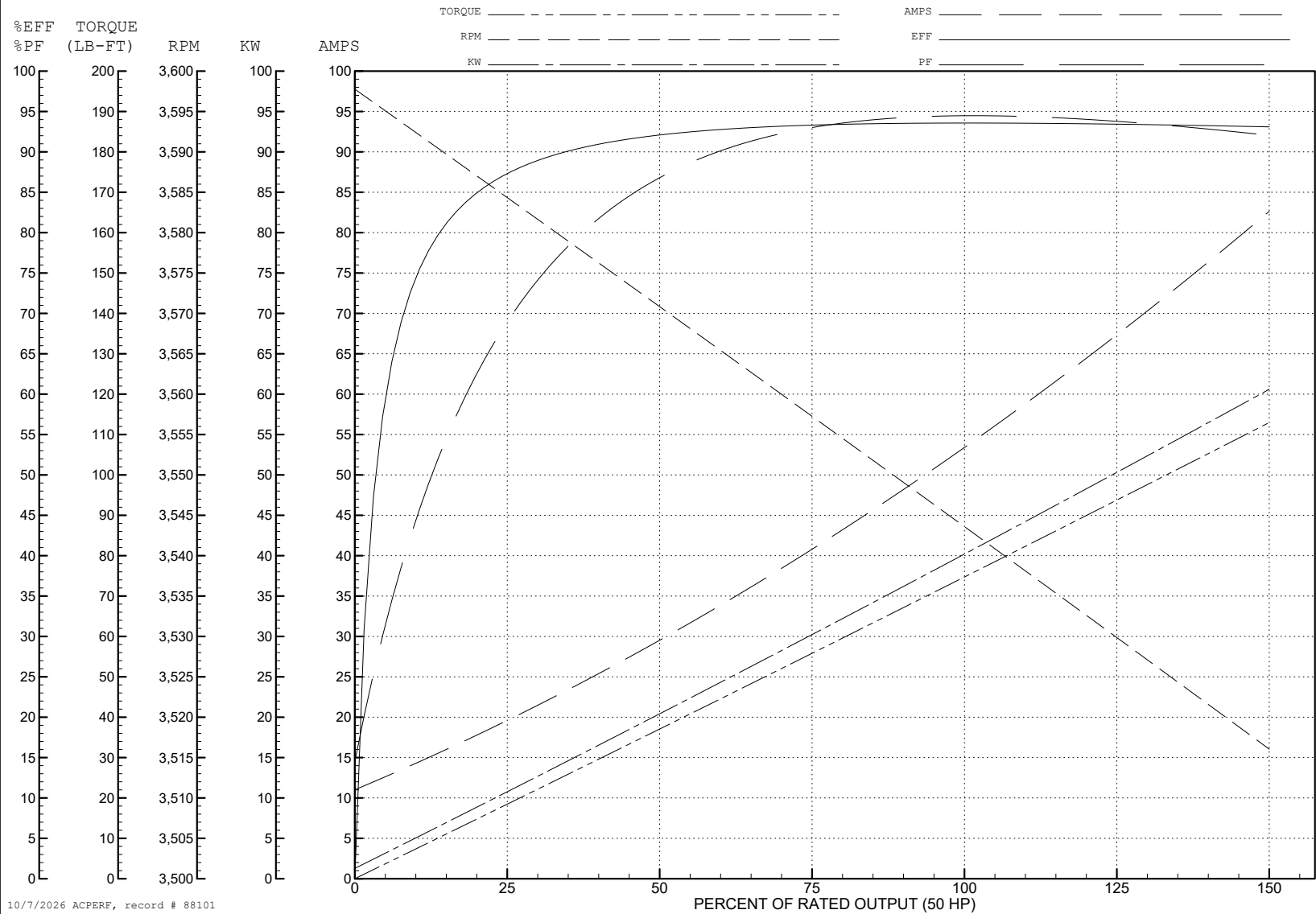
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WINDING # 12WGA0178

Typical performance - not guaranteed values.

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

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					380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		50		Full Load Torque		72.25 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		112/56//110/55		Breakdown Torque		264 LB-FT		
R.P.M.		3540//2945		Pull-up Torque		85.27 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		114 LB-FT	
NEMA Design Code		A		KVA Code	H	Starting Current		360 A
Service Factor (S.F.)		1		No-load Current		11.83 A		
NEMA Nom. Eff.		93	Power Factor		90	Line-line Res. @ 25°C		0.106 Ω
Rating - Duty		40C		AMB-CONT		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

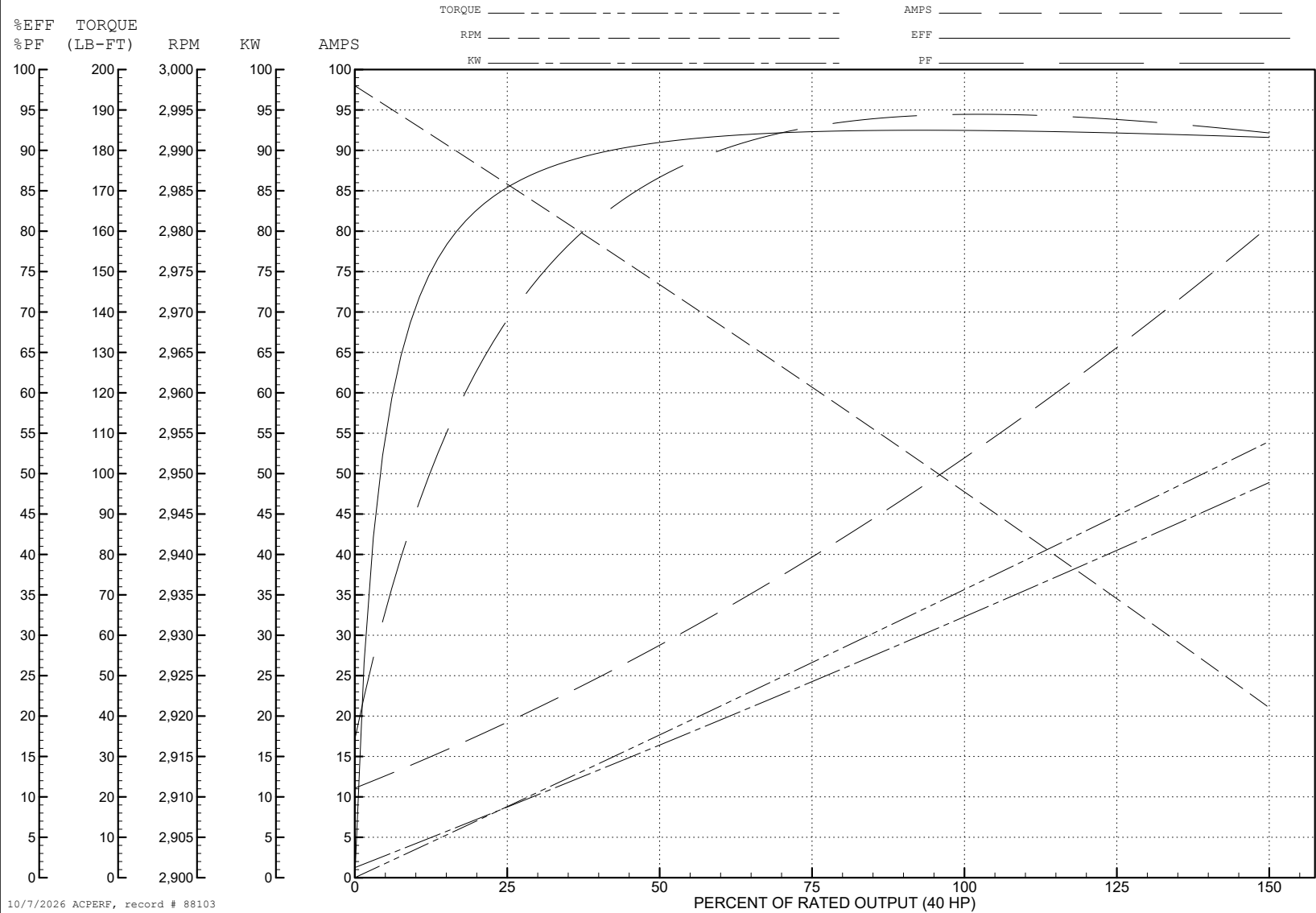
ABB Motors and Mechanical Inc.

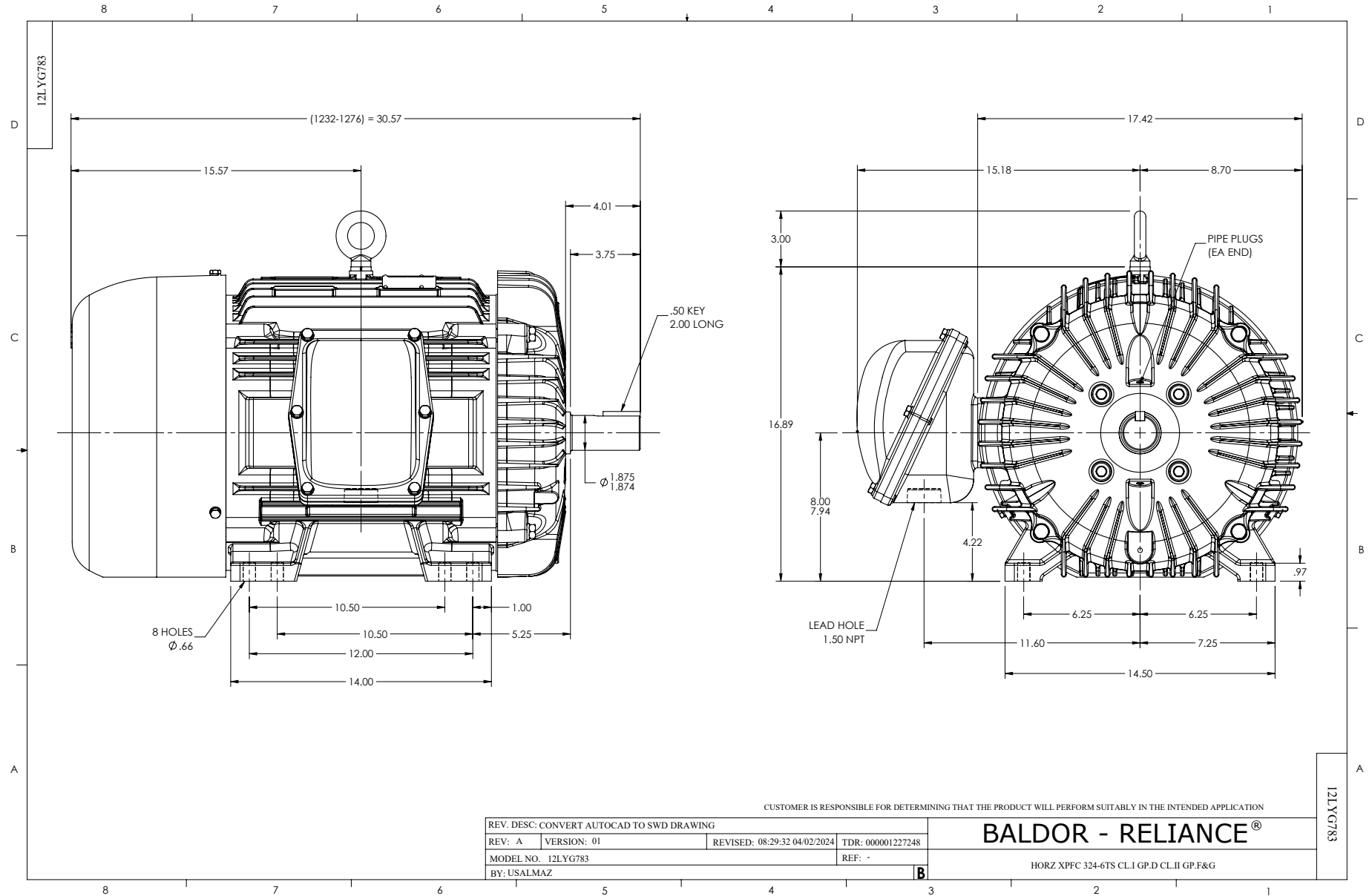
WINDING # 12WGA0178

Typical performance - not guaranteed values.

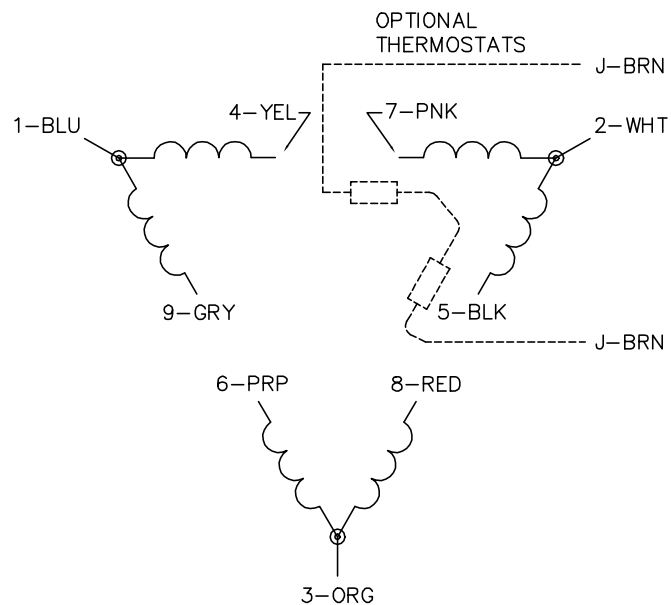
40 HP 3 PH 50 HZ 2948 RPM 380 V 1264M

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

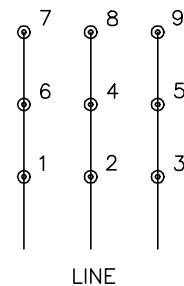




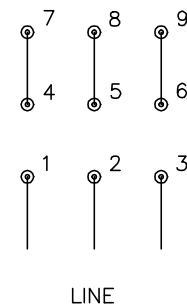
CD0180



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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