

ABB BALDOR RELIANCE III

Customer information packet

CDRX32544T-5

50HP, 1775RPM, 3PH, 60HZ, 326TC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	326TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	47.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	47.0 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY593
Layout	12LYT021
Eff. date	12-10-2024
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	07-24-2019

IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
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

NP1401XPSLEV													
NO.						CC	010A						
S/N						TEMP CODE				T3C			
SPEC.	12-0000-0853					INV.TYPE			PWM				
CAT.NO.	CDRX32544T-5					C HP FR	60		C HP TO	90			
HP	50					CT HZ FROM			6		CT HZ TO		60
VOLTS	575					VT HZ FROM			6		VT HZ TO		60
AMPS	47				MAG CUR								
RPM	1775				MX RPM		2700						
HZ	60	PH	3	CL	F	NOM.EFF.		94.5					
SER.F.	1.00	DES		A	SL HZ	0.83	WK2		10.1				
FRAME	326TC	RATING			40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE												
	1.15SF ON SINEWAVE					NEMA MG-1 PT.5,IP55							

AC Induction Motor Performance Data

Record # 77585

Typical performance - not guaranteed values

Winding: 12WGY593-R002			Type: 1276M		Enclosure: XPFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		50	Full Load Torque		148 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		47	Breakdown Torque		560 LB-FT		
R.P.M.		1775	Pull-up Torque		235 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		278 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		378 A
Service Factor (S.F.)		1	No-load Current		19.8 A		
NEMA Nom. Eff.		94.5	Power Factor	84	Line-line Res. @ 25°C		0.145 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		55°C	
S.F. Amps				Temp. Rise @ S.F. Load		66°C	
				Locked-rotor Power Factor		26.3	
				Rotor inertia		10.1 LB-FT2	

Load Characteristics 575 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	68	78	84	86	87
Efficiency	91.1	94.3	94.8	95.2	94.7	94
Speed	1794	1789	1784	1779	1774	1767
Line amperes	22.6	29.3	37.6	47	57.7	68.8

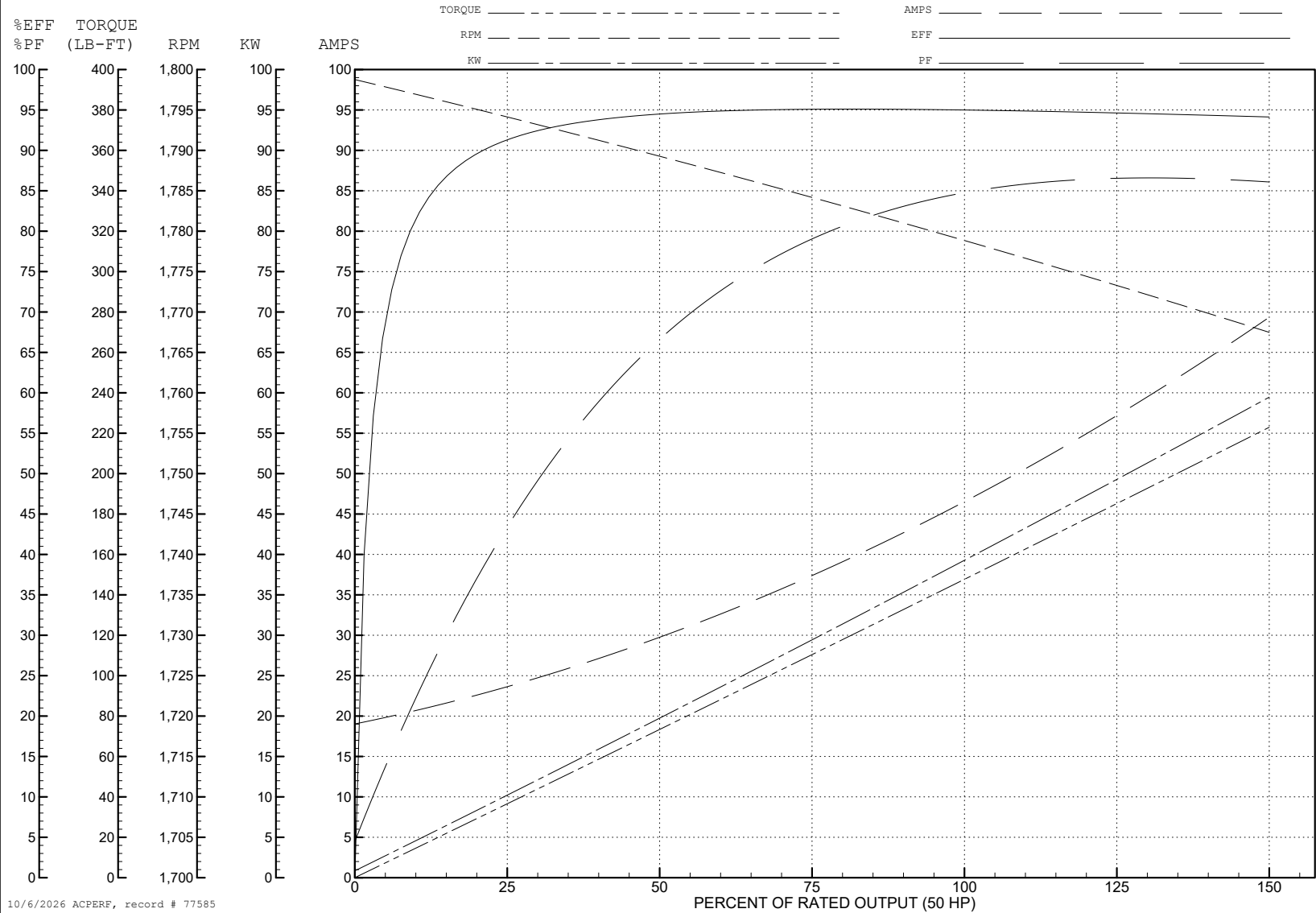
ABB Motors and Mechanical Inc.

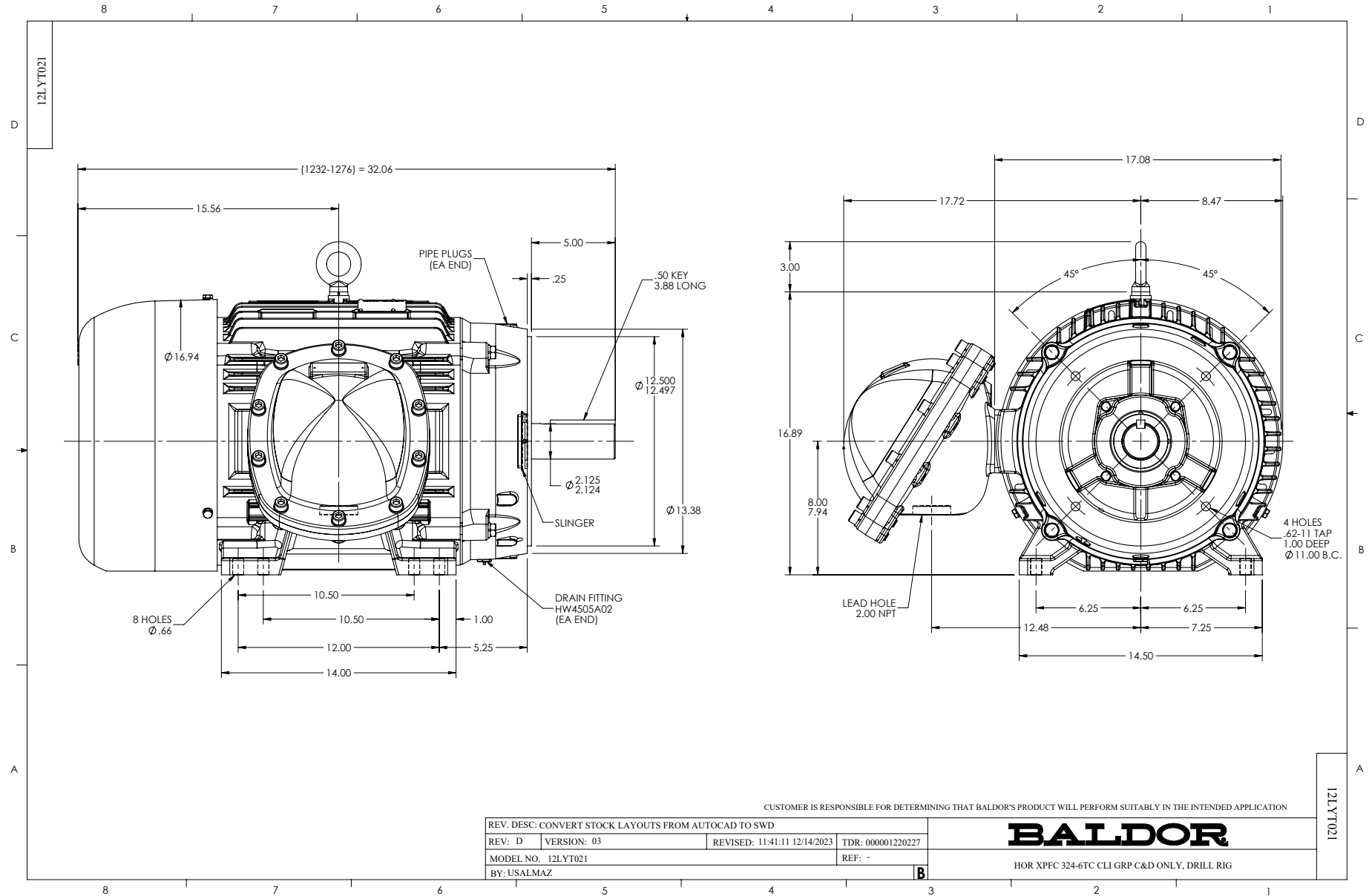
WINDING # 12WGY593

Typical performance - not guaranteed values.

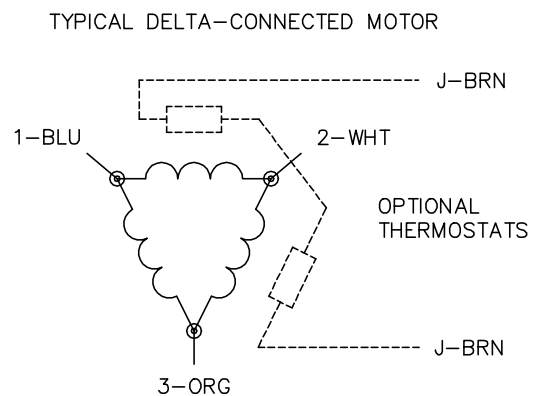
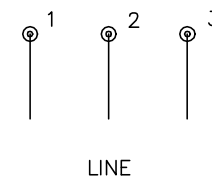
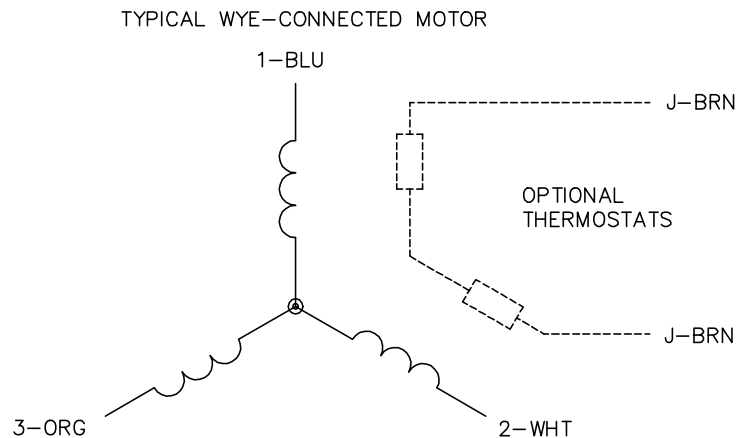
50 HP 3 PH 60 HZ 1775 RPM 575 V 1276M

TORQUES (LB-FT): PO=560 PU=235 LR=278 LRA=378





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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