ABB BALDOR RELIANCE

Customer information packet

IDXCM7564T-C

50HP, 1775RPM, 3PH, 60HZ, 326TC, 1276M, XPFC, F
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	326TC
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	118.000 A @ 230.0 V
	59.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	H
Type	AC
Mech. spec.	12J204
Base	
Status	INA/A
Elec. spec.	12WGY585
Layout	12LYJ204
Eff. date	03-10-2021
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	11-07-2016

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	59.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1276M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	84
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
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.	12J204Y585G1			**INV.TYPE**	PWM							
CAT.NO.				**C HP FR**	60	**C HP TO**	90					
HP	50			**CT HZ FROM**	15			**CT HZ TO**	60			
VOLTS	230/460			**VT HZ FROM**	6			**VT HZ TO**	60			
AMPS	118/59			**MAG CUR**	50/25							
RPM	1775			**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	94.5					
SER.F.	1.00	**DES**	A	**SL HZ**	0.8	**WK2**	10.1					
FRAME	326TC	**RATING**	40C AMB-CONT									
	1.15SF ON SINEWAVE											

AC Induction Motor Performance Data
Record # 60172
Typical performance - not guaranteed values

Winding: 12WGY585-R008	**Type:** 1276M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	148 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			118/59	**Breakdown Torque**	561 LB-FT
R.P.M.			1775	**Pull-up Torque**	236 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	279 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	475 A
Service Factor (S.F.)			1	**No-load Current**	25 A
NEMA Nom. Eff.	94.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.096885 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
				Locked-rotor Power Factor	26.4
				Rotor inertia	10.1 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	46	68	78	84	85	87
Efficiency	90	93.7	94.6	94.7	94.4	93.9
Speed	1794	1789.1	1784.4	1779.2	1773.7	1767.4
Line amperes	28.6	36.9	47.3	59.1	72.4	86.3

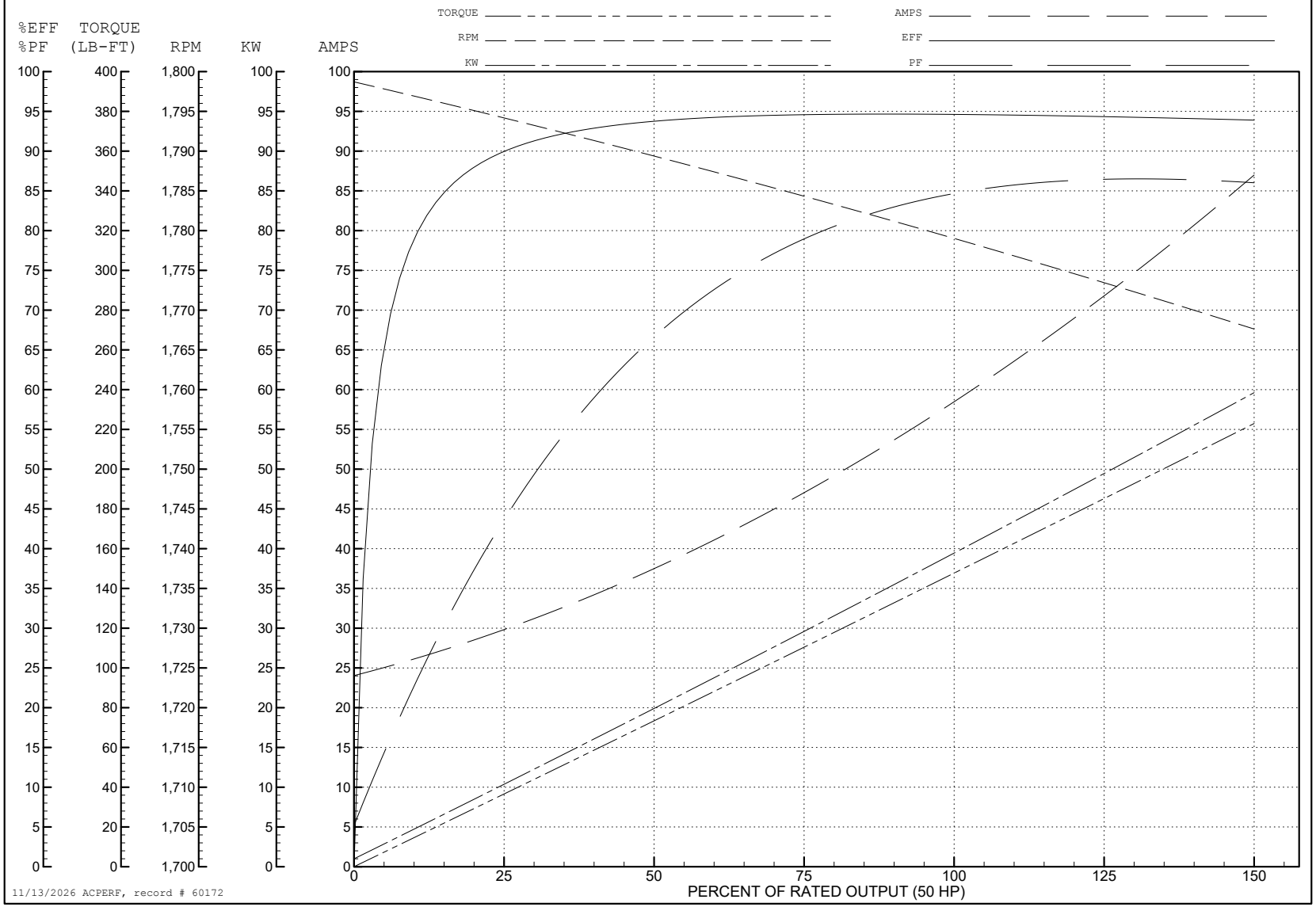
ABB Motors and Mechanical Inc.

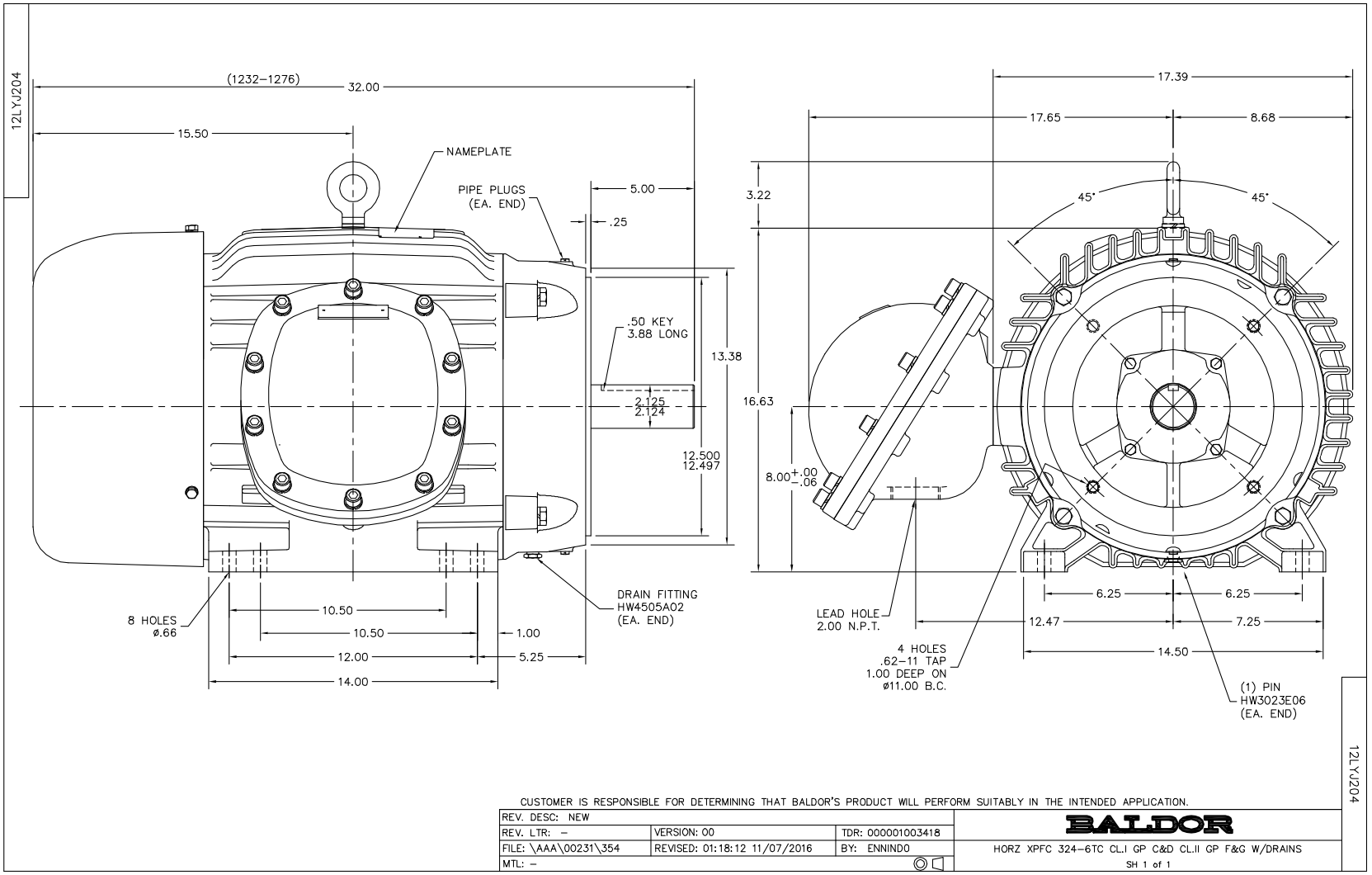
WINDING # 12WGY585

50 HP 3 PH 60 HZ 1775 RPM 460 V 1276M

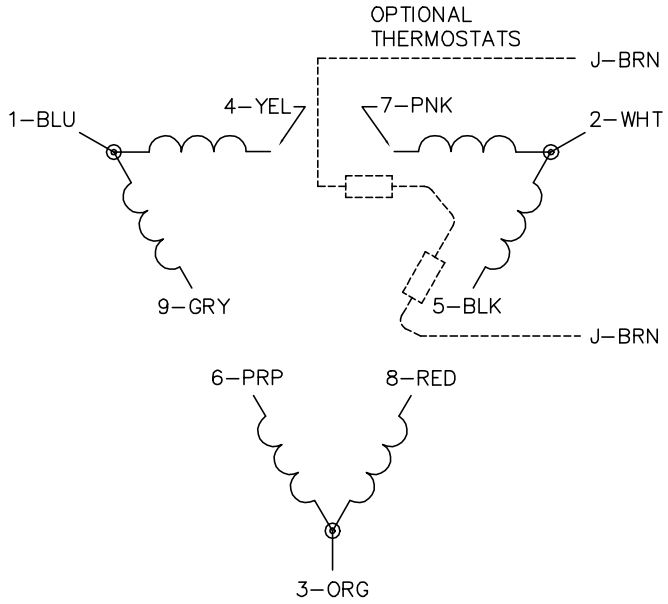
Typical performance - not guaranteed values.

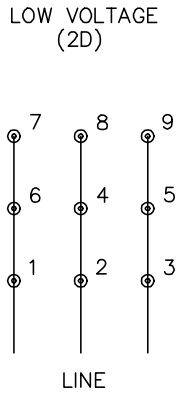
TORQUES(LB-FT): PO=561 PU=236 LR=279 LRA=475

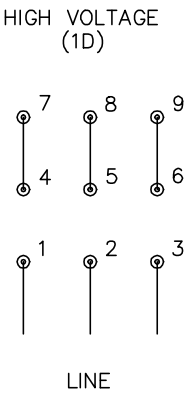



12LYJ204
(1232–1276)
32.00
15.50
NAMEPLATE
PIPE PLUGS
(EA. END)
5.00
.25
.50 KEY
3.88 LONG
13.38
2.125
2.124
12.500
12.497
8 HOLES
ø.66
10.50
10.50
12.00
14.00
1.00
5.25
DRAIN FITTING
HW4505A02
(EA. END)
17.39
17.65
8.68
3.22
45°
45°
16.63
8.00 +.00 −.06
LEAD HOLE
2.00 N.P.T.
4 HOLES
.62–11 TAP
1.00 DEEP ON
ø11.00 B.C.
6.25
6.25
12.47
7.25
14.50
(1) PIN
HW3023E06
(EA. END)
12LYJ204
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: NEW
REV. LTR: –
VERSION: 00
TDR: 000001003418
FILE: \AAA\00231\354
REVISED: 01:18:12 11/07/2016
BY: ENNINDO
MTL: –
BALDOR
HORZ XPFC 324–6TC CL.I GP C&D CL.II GP F&G W/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