

ABB BALDOR RELIANCE III

Customer information packet

IDXM7564T-C

50HP, 1775RPM, 3PH, 60HZ, 326T, 1276M, XPFC, F1

Class - CLI GP C,D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	326T
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	G
Type	AC
Mech. spec.	12F720
Base	
Status	INA/A
Elec. spec.	12WGY585
Layout	12LYF720
Eff. date	03-10-2021
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	11-02-2016

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	Standard
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.	12F720Y585G1					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	326T	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. @ 25°C		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

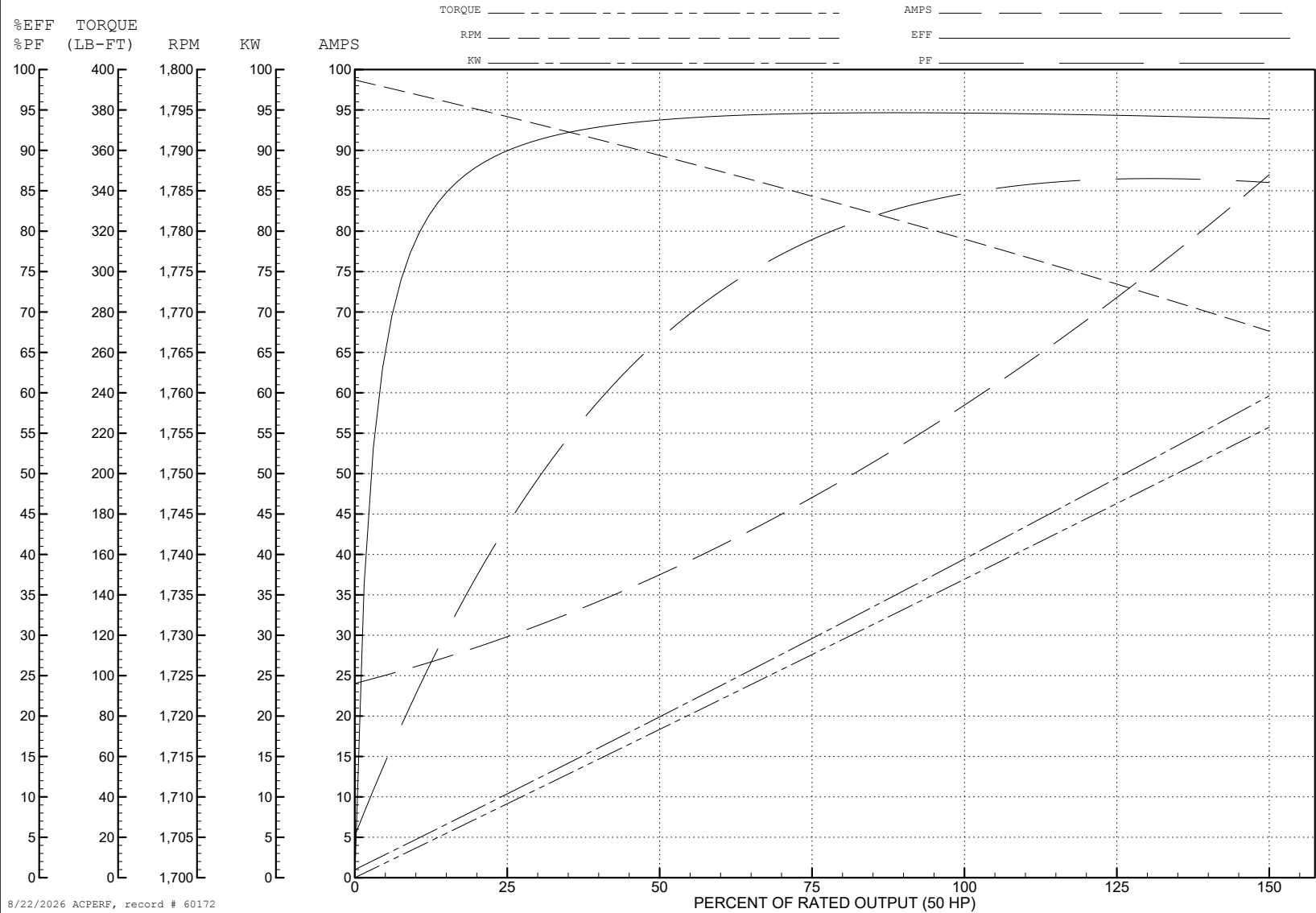
ABB Motors and Mechanical Inc.

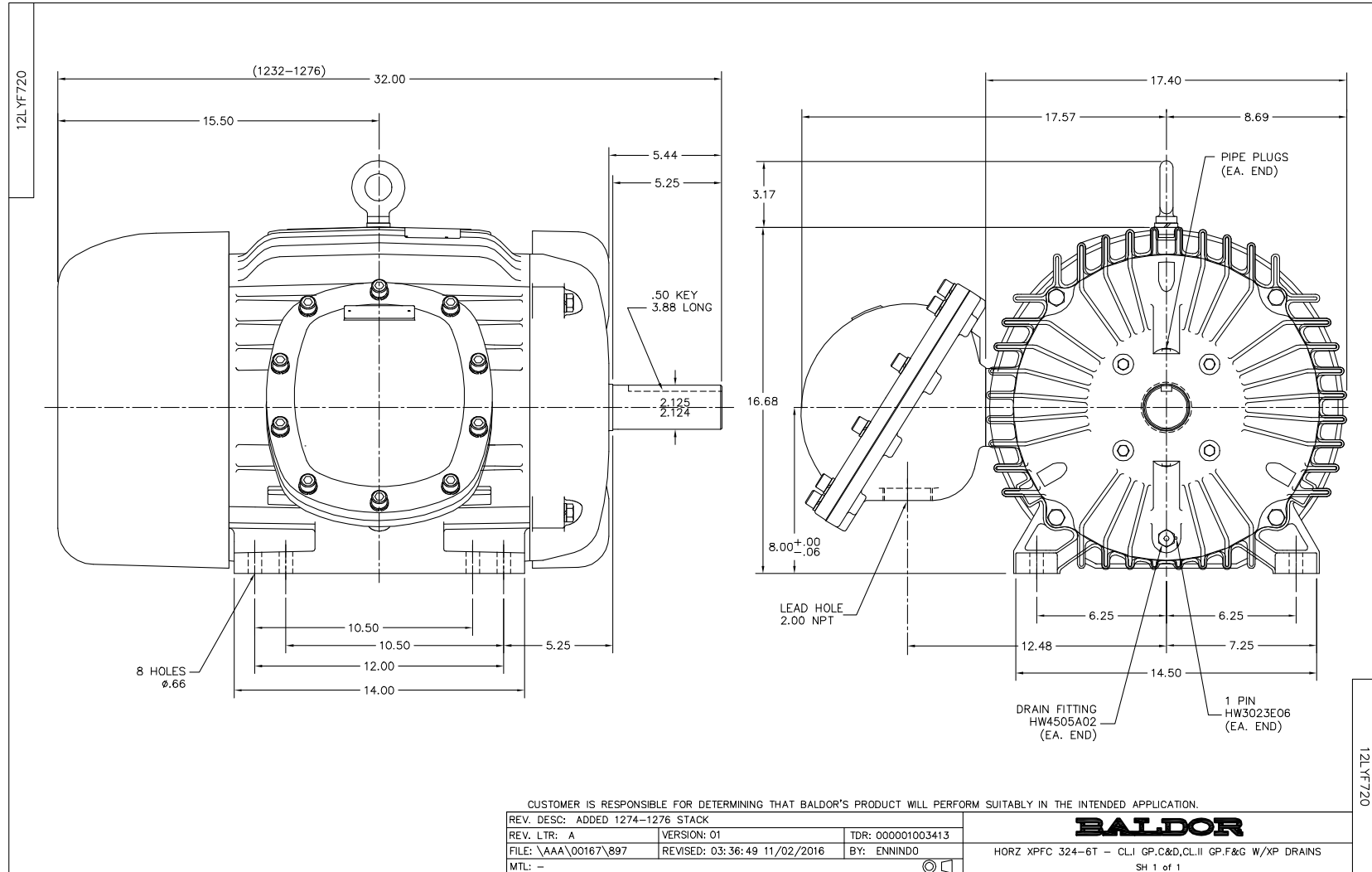
WINDING # 12WGY585

Typical performance - not guaranteed values.

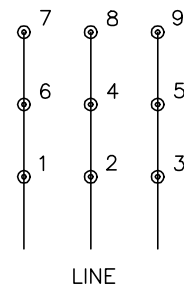
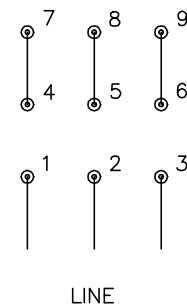
50 HP 3 PH 60 HZ 1775 RPM 460 V 1276M

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





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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