ABB BALDOR RELIANCE

Customer information packet

IDXM7060T

30HP, 1760RPM, 3PH, 60HZ, 286T, 1056M, XPFC, F1
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 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	30
Current @ Voltage	78.000 A @ 208.0 V
	76.000 A @ 230.0 V
	38.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	M
Type	AC
Mech. spec.	10E647
Base	
Status	INA/A
Elec. spec.	10WGY538
Layout	10LYE647
Eff. date	03-10-2021
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	10-25-2013

Front Shaft Indicator	None
Haz Area Temp Code	T2B
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
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	X1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	80
Product Family	General Purpose
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP0890XPSLEV											
NO.					**CC**	010A					
S/N					**TEMP CODE**	T2B					
SPEC.	10E647Y538G1				**INV.TYPE**	PWM					
CAT.NO.					**C HP FR**	60	**C HP TO**	90			
HP	30				**CT HZ FROM**	30			**CT HZ TO**	60	
VOLTS	230/460				**VT HZ FROM**	6			**VT HZ TO**	60	
AMPS	76/38			**MAG CUR**	39.6/19.8						
RPM	1760			**MX RPM**	2700						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	93.6				
SER.F.	1.00	**DES**	A	**SL HZ**	1.3	**WK2**	4.46				
FRAME	286T	**RATING**	40C AMB-CONT								

AC Induction Motor Performance Data
Record # 43812
Typical performance - not guaranteed values

Winding: 10WGY538-R025	**Type:** 1056M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.7 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			76/38	**Breakdown Torque**	330 LB-FT
R.P.M.			1760	**Pull-up Torque**	142 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	178 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	270 A
Service Factor (S.F.)			1	**No-load Current**	17.9 A
NEMA Nom. Eff.	93.6	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.19377 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
				Locked-rotor Power Factor	31
				Rotor inertia	4.47 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	73	80	82	85
Efficiency	87.6	92.3	93.5	93.7	93.4	92.9
Speed	1792.2	1787.6	1782.4	1776.5	1770.3	1762.1
Line amperes	19.8	24.3	30.7	37.6	45.6	55.2

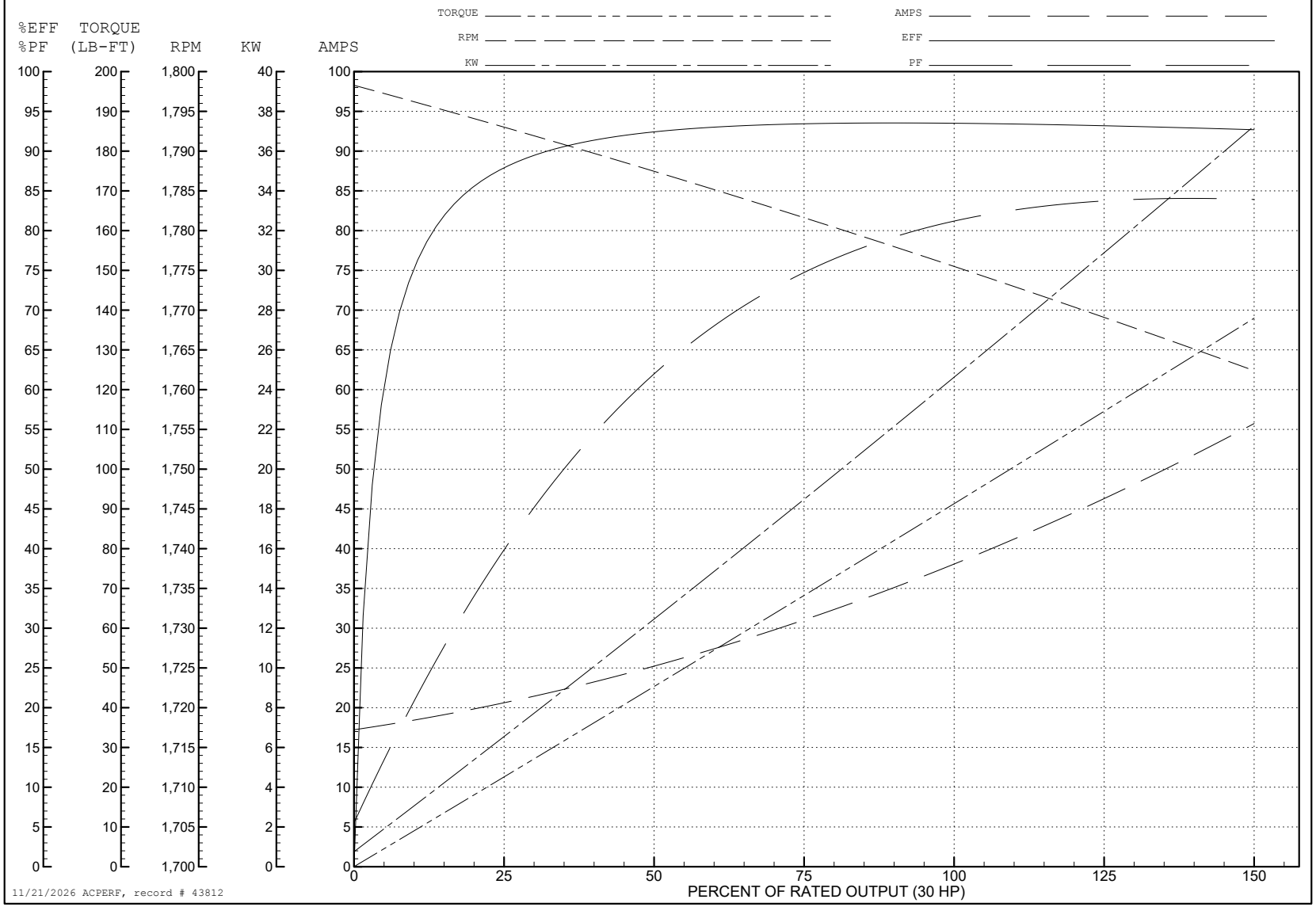
ABB Motors and Mechanical Inc.

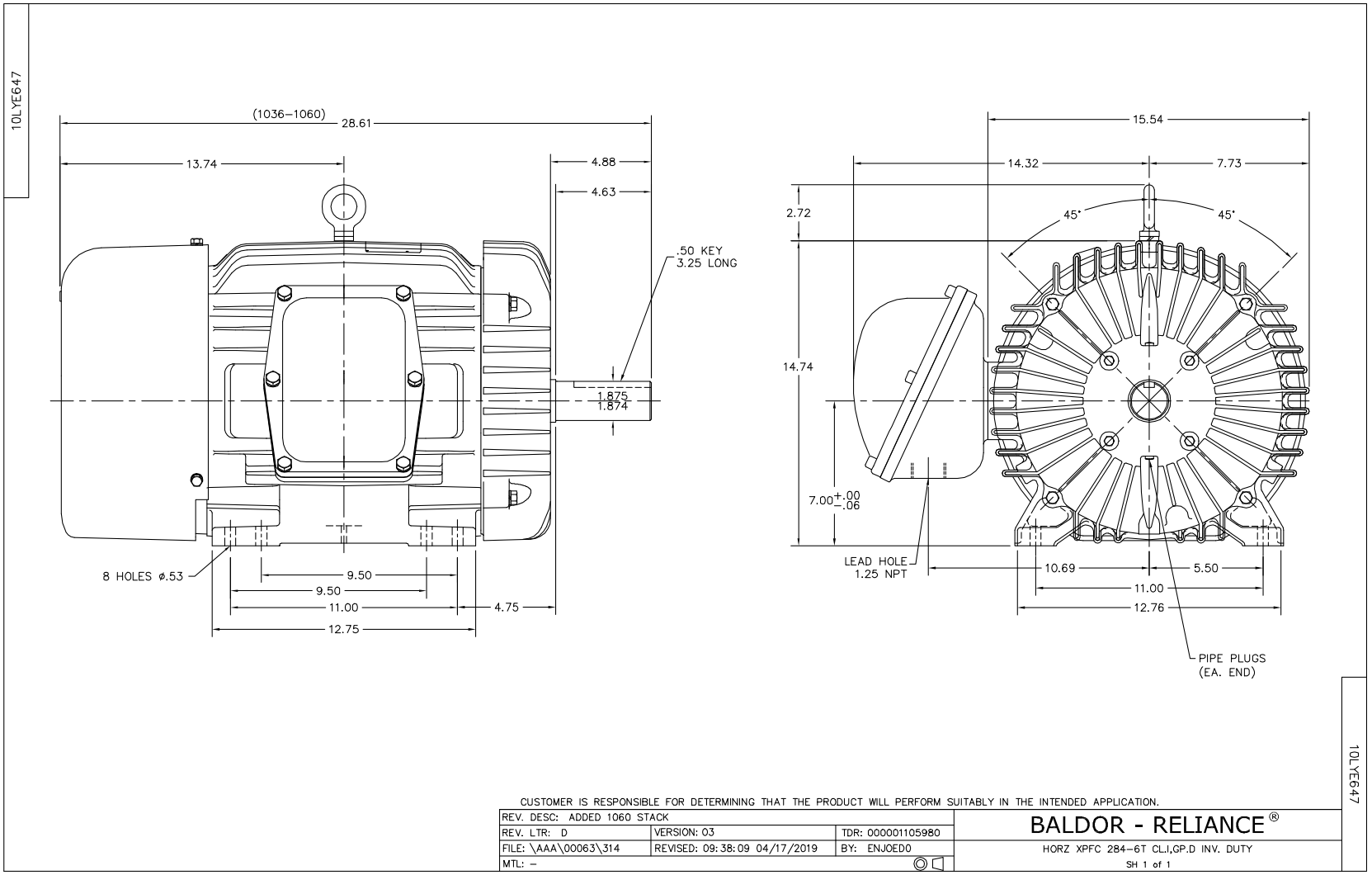
WINDING # 10WGY538

30 HP 3 PH 60 HZ 1760 RPM 460 V 1056M

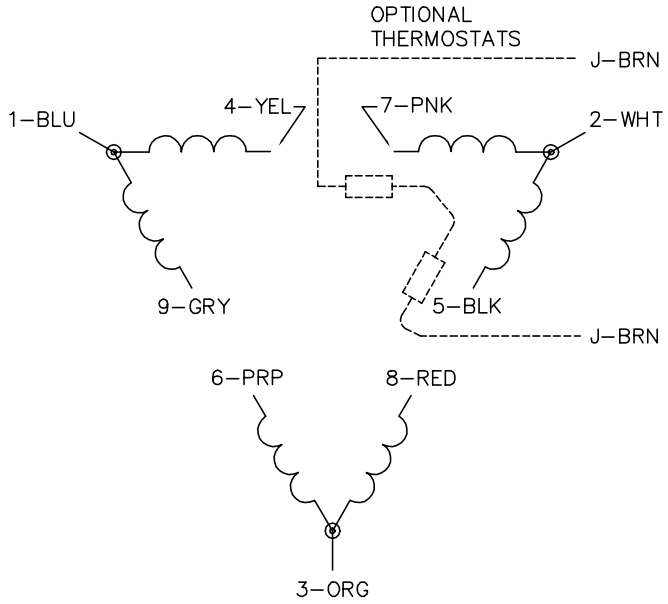
Typical performance - not guaranteed values.

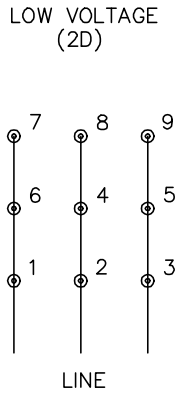
TORQUES(LB-FT): PO=330 PU=142 LR=178 LRA=270

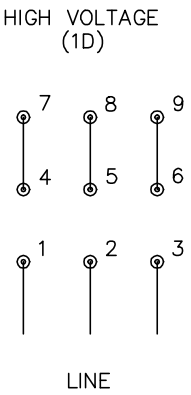



10LYE647
(1036–1060)
28.61
13.74
4.88
4.63
.50 KEY
3.25 LONG
1.875
1.874
8 HOLES ø.53
9.50
9.50
11.00
4.75
12.75
15.54
14.32
7.73
2.72
45°
45°
14.74
7.00 +.00 −.06
LEAD HOLE
1.25 NPT
10.69
5.50
11.00
12.76
PIPE PLUGS
(EA. END)
10LYE647
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADDED 1060 STACK
REV. LTR: D
VERSION: 03
TDR: 000001105980
FILE: \AAA\00063\314
REVISED: 09:38:09 04/17/2019
BY: ENJOED0
MTL: –
BALDOR - RELIANCE®
HORZ XPFC 284–6T CL.I,GP.D INV. DUTY
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.

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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: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1