

ABB BALDOR RELIANCE III

Customer information packet

VXT3206T-5

20HP, 1180RPM, 3PH, 60HZ, 286TC, 1062M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	286TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR NEMA_PREMIUM NEMA PREMIUM CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	3
Current @ Voltage	20.600 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY161
Layout	10LYC153
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	06
Leads	3#10
Proprietary	False
Created date	06-03-2021

High Voltage Full Load Amps	20.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.76 IN
Power Factor	78
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4224L											
CAT.NO.	VXT3206T-5							I.P.	54		
SPEC.	10-0000-2165							ENCL	TEFC		
FRAME	286TC	H.P.	20				T. CODE	T3C			
VOLTS	575		P.F.		78						
F.L. AMPS	20.6		RATING		40C AMB-CONT						
R.P.M.	1180										
HZ.	60	PH.	3	CLASS		F					
SER.F.	1.15	DES.	A	SL HZ		1					
NEMA NOM. EFF.	93	WK2		7.59							
DE	6311	ODE	6309								
MAG. CUR.	9.7										
INV TYPE	PWM	CHP	60	TO		90	INV TEMP CODE		T3C		
CT	3	TO	60	VT		3	TO		60		
CC	010A	SN									

AC Induction Motor Performance Data

Record # 88738

Typical performance - not guaranteed values

Winding: 10WGY161-R001				Type: 1062M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		20		Full Load Torque		88.7429 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		20.6		Breakdown Torque		247.3734 LB-FT	
R.P.M.		1180		Pull-up Torque		97.62 LB-FT	
Hz		60 Phase		Locked-rotor Torque		129.5942 LB-FT	
NEMA Design Code		A KVA Code		Starting Current		105.8704 A	
Service Factor (S.F.)		1.15		No-load Current		9.9728 A	
NEMA Nom. Eff.		93 Power Factor		78		Line-line Res. @ 25°C	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C	
S.F. Amps				Temp. Rise @ S.F. Load		49°C	
				Locked-rotor Power Factor		30.056	
				Rotor inertia		7.59 lb-ft²	

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39.3519	61.6055	73.438	79.4708	81.5183	82.4491	81
Efficiency	87.3244	91.5586	92.5415	92.6002	92.4174	92.2339	92.5
Speed	1196.16	1192.434	1188.528	1184.37	1181.724	1179.888	1183
Line amperes	10.938	13.2874	16.5331	20.3656	22.8792	24.6306	21.9

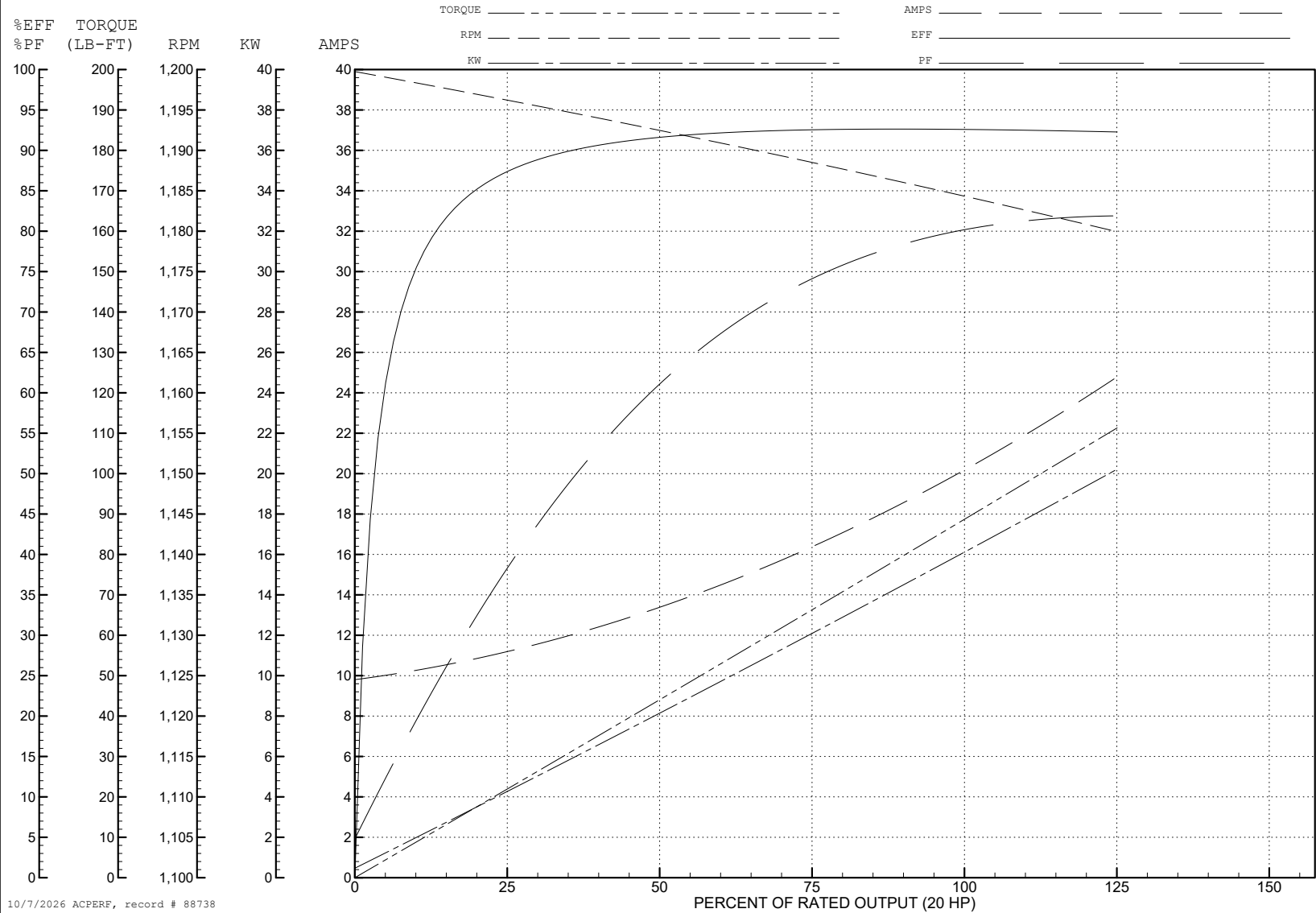
ABB Motors and Mechanical Inc.

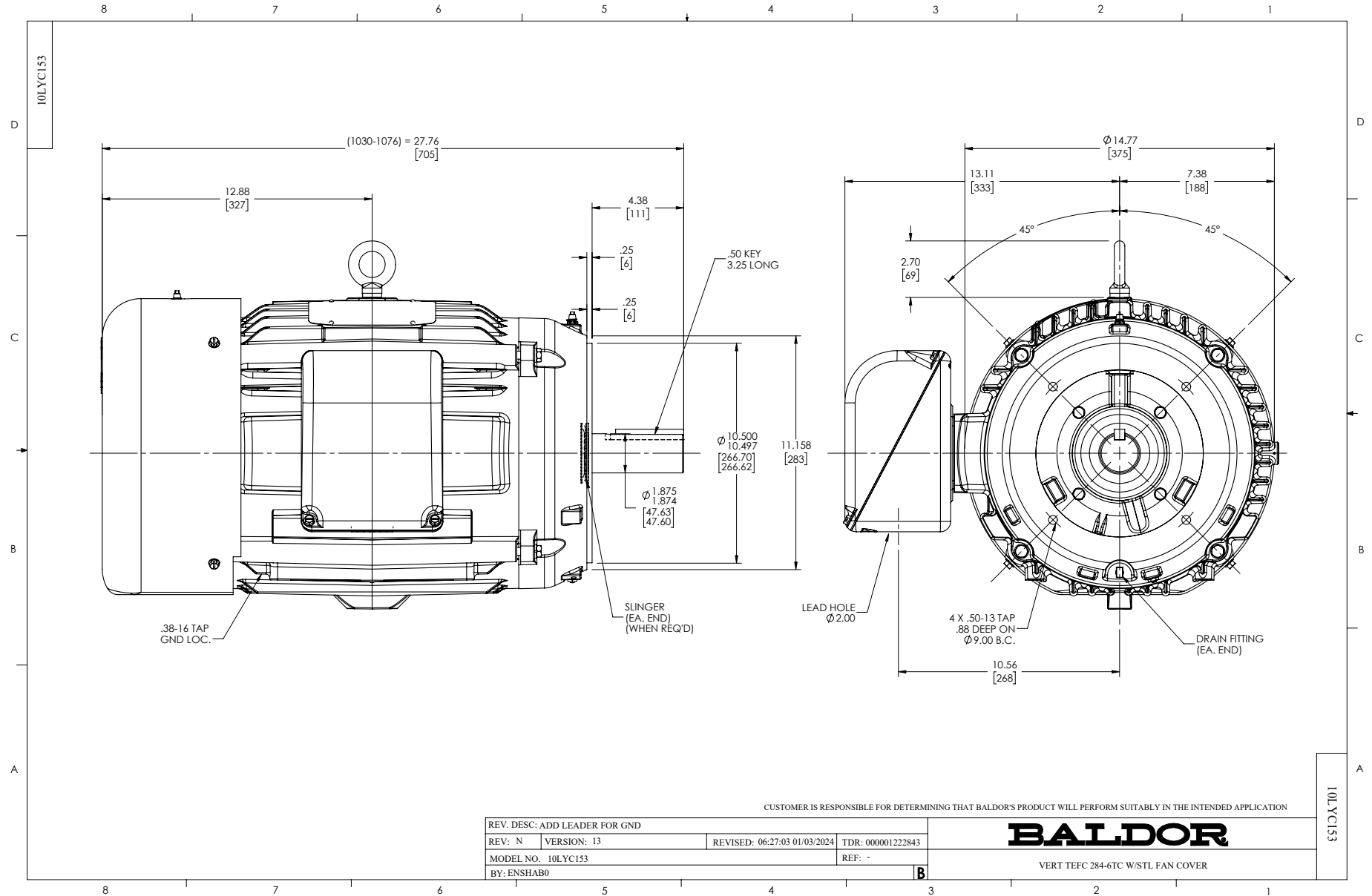
WINDING # 10WGY161

Typical performance - not guaranteed values.

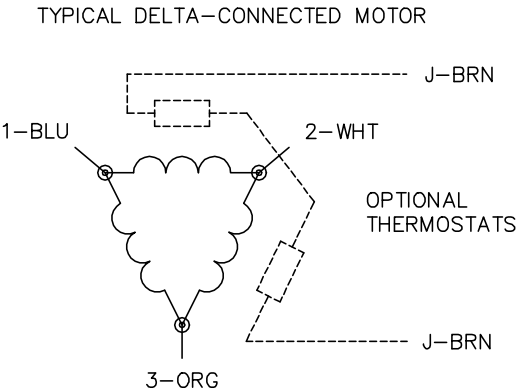
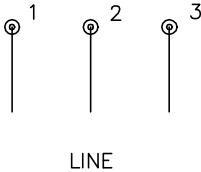
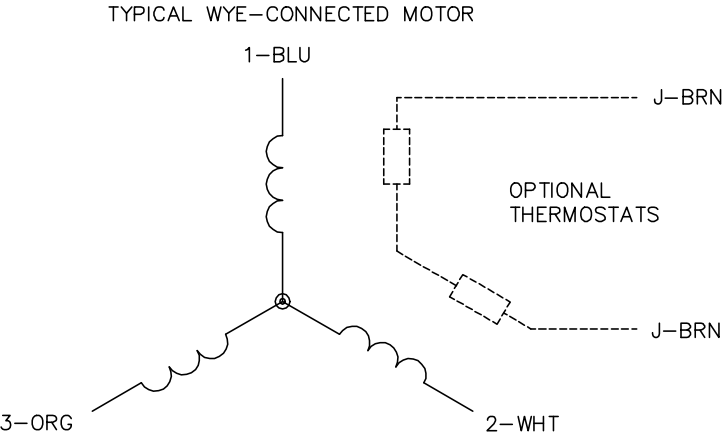
20 HP 3 PH 60 HZ 1180 RPM 575 V 1062M

TORQUES (LB-FT) : PO=247.3734 PU=97.62 LR=129.5942 LRA=105.8704





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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