

ABB BALDOR RELIANCE III

Customer information packet

VXT3304T-5

30HP, 1770RPM, 3PH, 60HZ, 286TC, 1060M, 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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	28.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
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.	10WGZ479
Layout	10LYC153
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	06-03-2021

High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	84
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	1770 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.	VXT3304T-5						I.P.	54			
SPEC.	10-0000-2164						ENCL	TEFC			
FRAME	286TC	H.P.		30		T. CODE				T3C	
VOLTS	575			P.F.		84					
F.L. AMPS	28			RATING		40C AMB-CONT					
R.P.M.	1770										
HZ.	60	PH.		3	CLASS		F				
SER.F.	1.15	DES.		B	SL HZ		1				
NEMA NOM. EFF.	93.6			WK2		4.79					
DE	6311			ODE		6309					
MAG. CUR.	10.5										
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 # 57115

Typical performance - not guaranteed values

Winding: 10WGZ479-R004			Type: 1060M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		30	Full Load Torque		88.65 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		28	Breakdown Torque		267 LB-FT		
R.P.M.		1770	Pull-up Torque		120 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		146 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		173 A
Service Factor (S.F.)		1	No-load Current		10.53 A		
NEMA Nom. Eff.		93.6	Power Factor	84	Line-line Res. @ 25°C		0.379 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
					Locked-rotor Power Factor		30.6
					Rotor inertia		4.77 LB-FT2

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	49	72	81	84	86	85
Efficiency	91	94	94.3	94	93.6	91.9
Speed	1793	1786	1779	1772	1763	1753
Line amperes	12.39	16.69	22.06	28.33	35.06	42.67

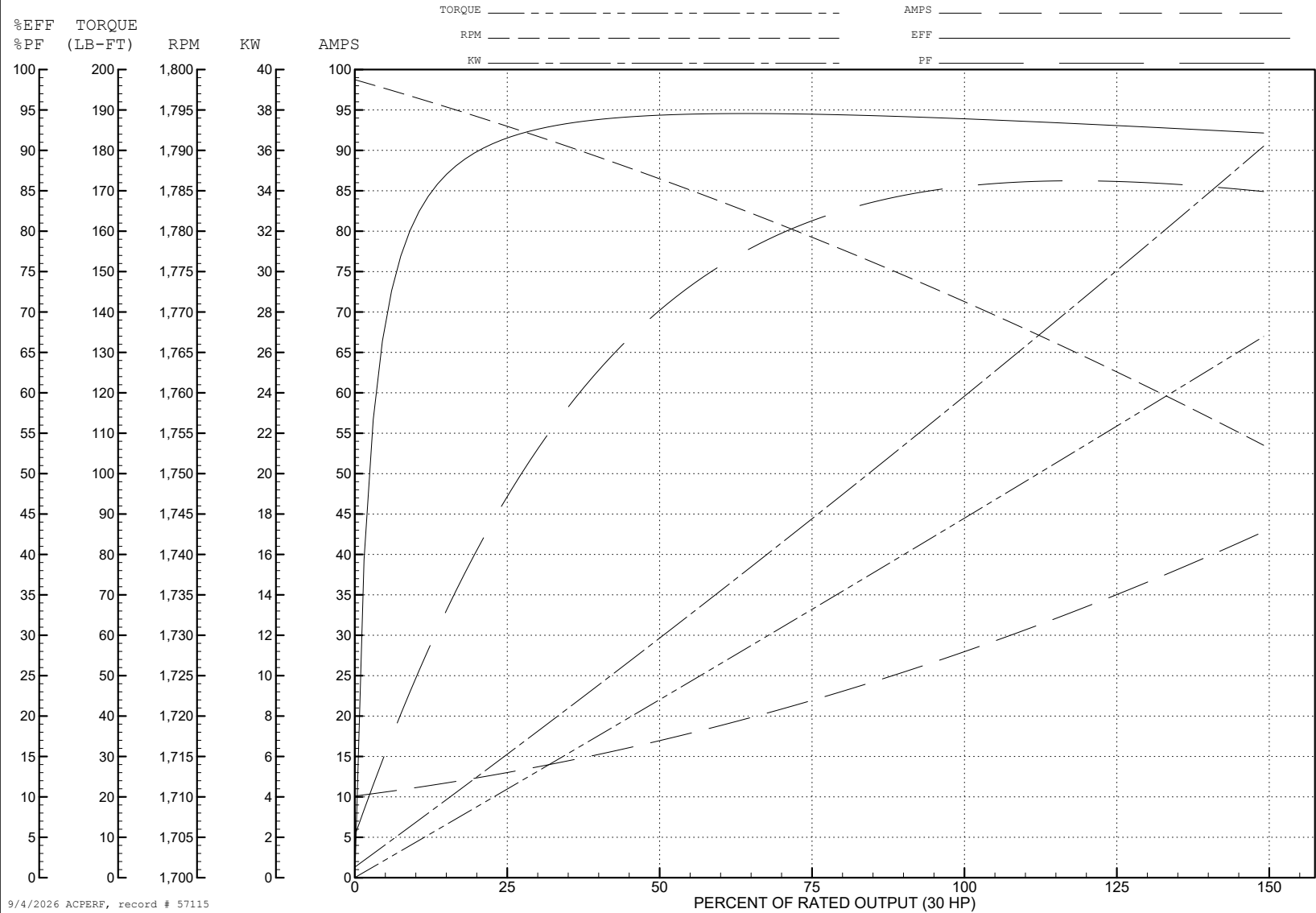
ABB Motors and Mechanical Inc.

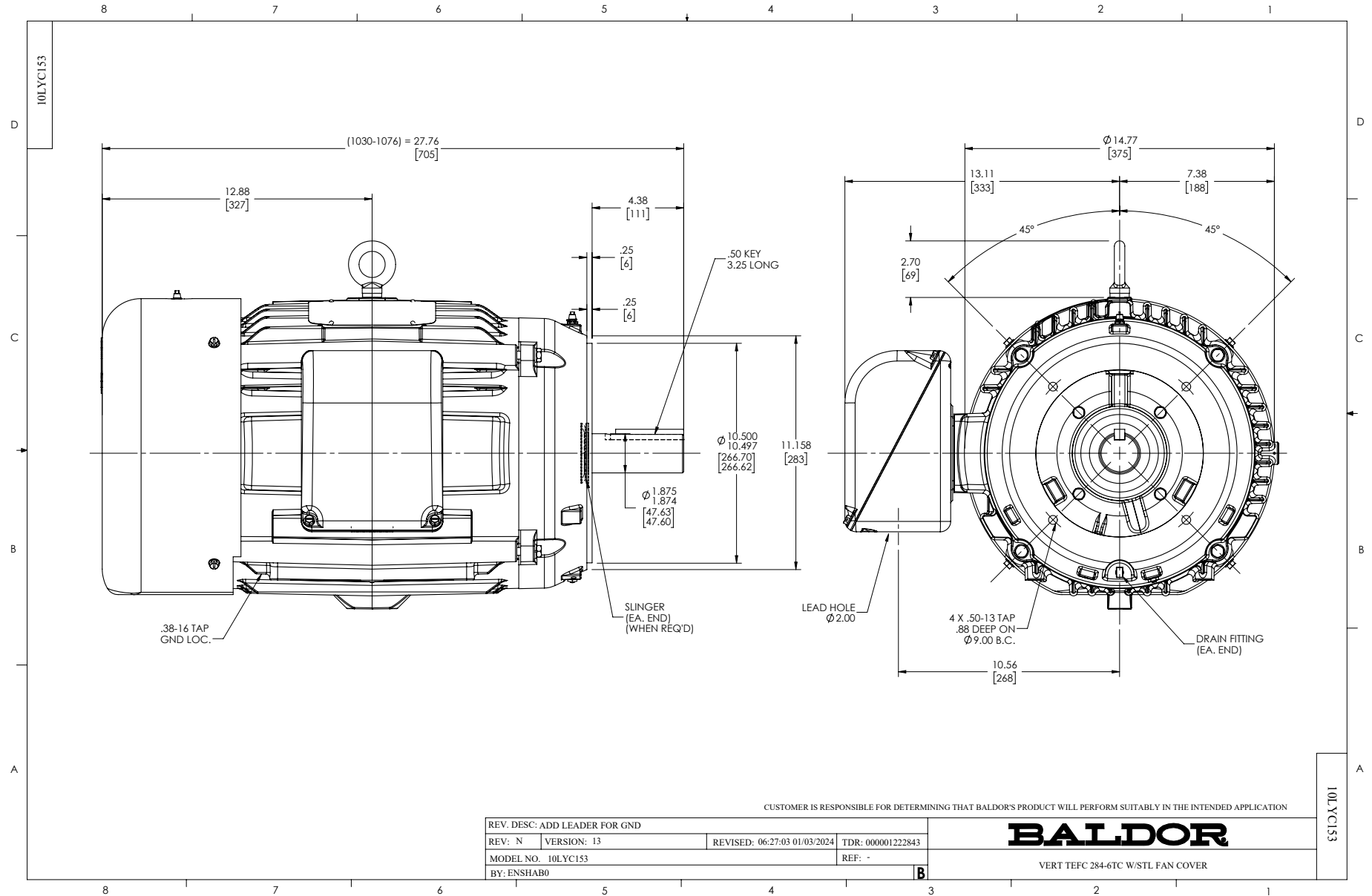
WINDING # 10WGZ479

Typical performance - not guaranteed values.

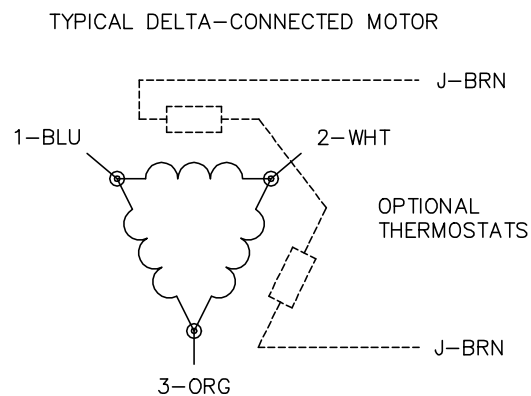
30 HP 3 PH 60 HZ 1770 RPM 575 V 1060M

TORQUES (LB-FT): PO=267 PU=120 LR=146 LRA=173





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

SH 1 of 1