ABB BALDOR RELIANCE

Customer information packet

VXT3156T

15HP, 1175RPM, 3PH, 60HZ, 284TC, 1046M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	284TC
Frame Material	Cast 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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CURUSEEV
	NEMA_PREMIUM
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	42.000 A @ 230.0 V
	42.000 A @ 208.0 V
	21.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3A

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LYC153
Eff. date	06-11-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	12-03-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	21.0 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	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.76 IN
Power Factor	73
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	1175 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

NP4163L									
CAT.NO.	VXT3156T					**I.P.**	54		
SPEC.	10-0000-1859					**ENCL**	TEFC		
FRAME	284TC		**H.P.**	15					
VOLTS	230/460		**P.F.**	73					
F.L. AMPS	42/21			**RATING**	40C AMB-CONT				
R.P.M.	1175								
HZ.	60	**PH.**	3	**CLASS**	F				
SER.F.	1.15	**DES.**	A	**SL HZ**	1.3				
NEMA NOM. EFF.	91.7	**WK2**	4.9						
DE	6311	**ODE**	6309						
MAG. CUR.	22/11								
INV TYPE	PWM	**CHP**	60	**TO**	90	**T. CODE**	T3A		
CT	3	**TO**	60	**VT**	3	**TO**	60		
CC	010A	**SN**							
	USABLE AT 50 HZ 10HP 190/380V 36.4/18.2A								

AC Induction Motor Performance Data
Record # 29743
Typical performance - not guaranteed values

Winding: 10WGY561-R001	**Type:** 1046M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	66.68 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			42/21	**Breakdown Torque**	213 LB-FT
R.P.M.			1175	**Pull-up Torque**	93.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	114 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	144 A
Service Factor (S.F.)			1.15	**No-load Current**	12.4 A
NEMA Nom. Eff.	91.7	**Power Factor**	73	**Line-line Res. @ 25ºC**	0.502 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	32.9
				Rotor inertia	5.63 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	65	72	76	78	75
Efficiency	83	89.4	91.3	91.7	91.4	90.8	91.7
Speed	1196	1193	1189	1185	1181	1177	1181
Line amperes	13.2	15.1	17.9	21.3	25.3	29.6	23.4

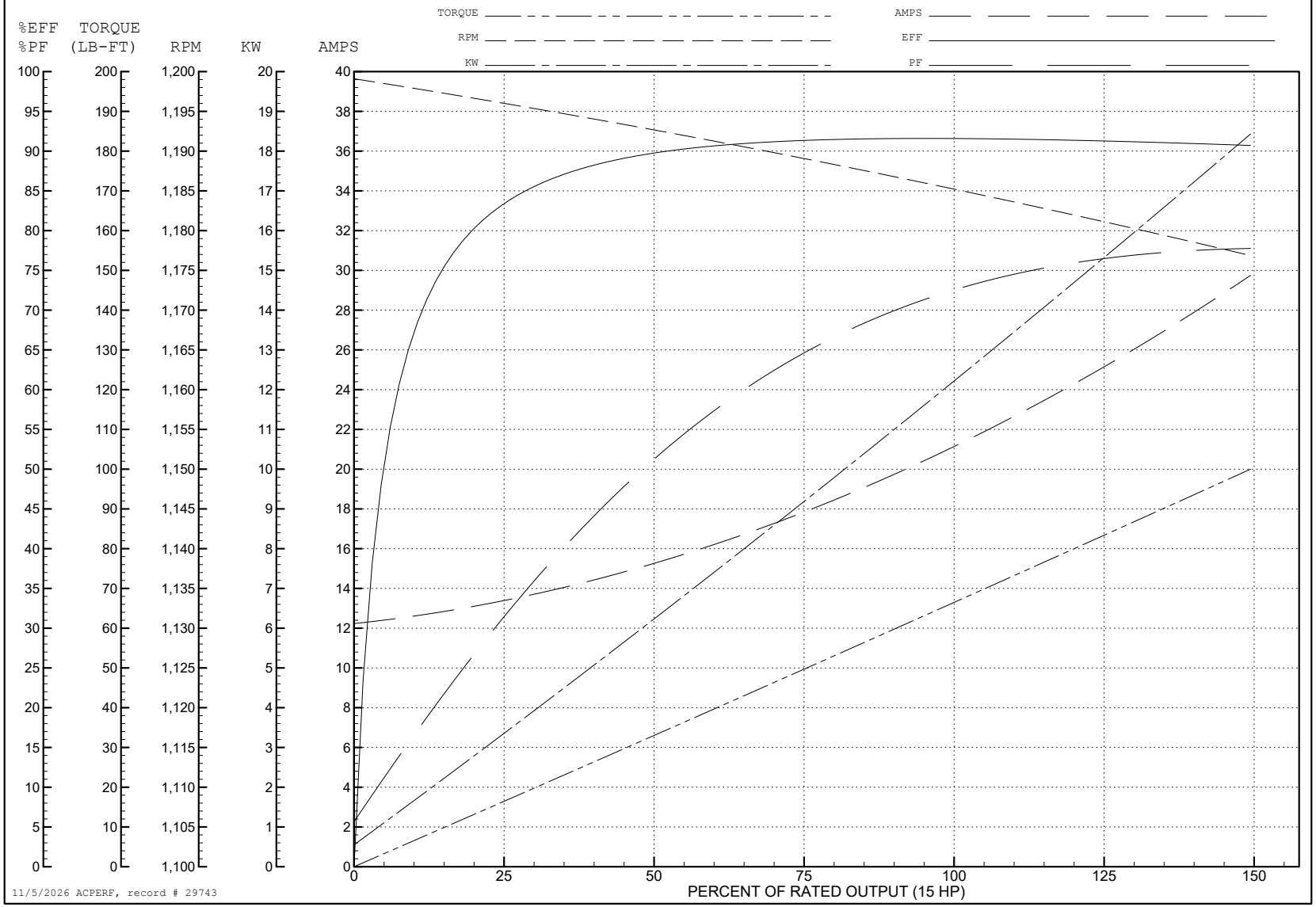
ABB Motors and Mechanical Inc.

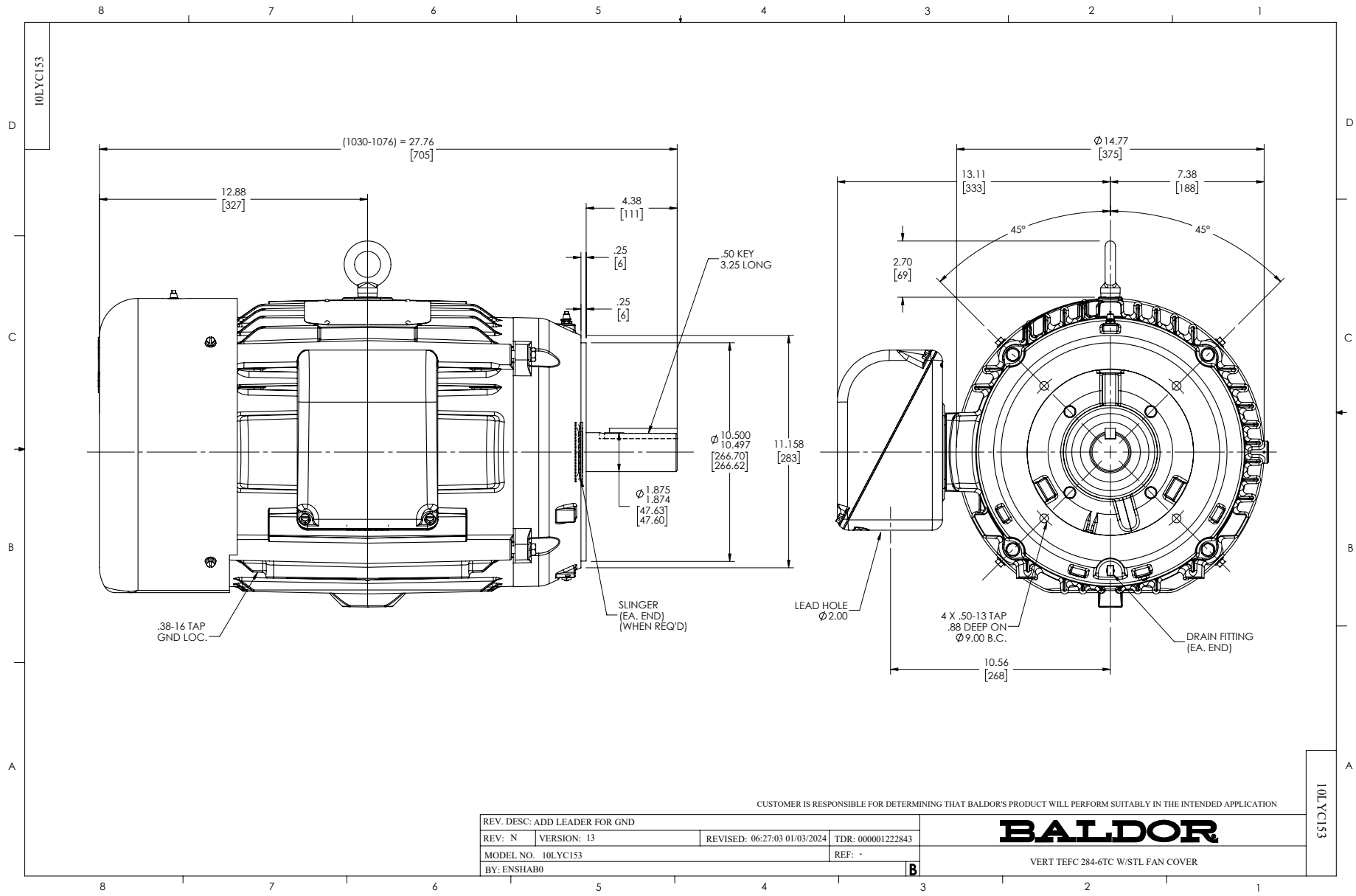
WINDING # 10WGY561

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

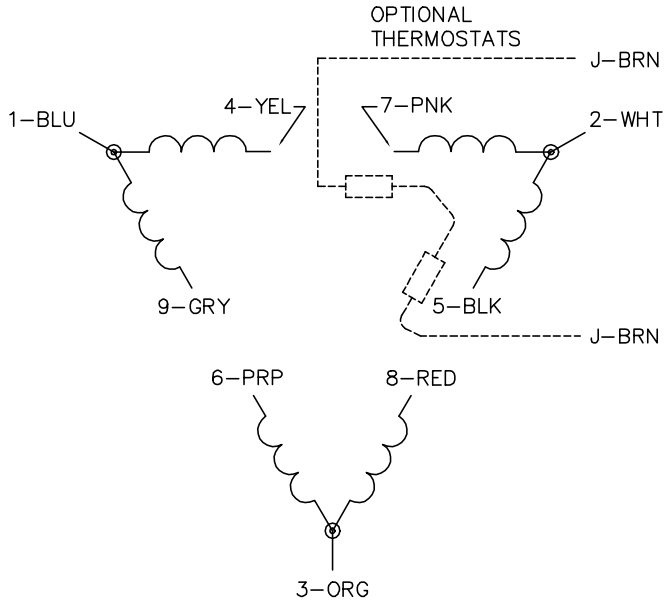
Typical performance - not guaranteed values.

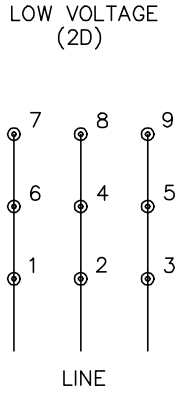
TORQUES(LB-FT): PO=213 PU=93.1 LR=114 LRA=144

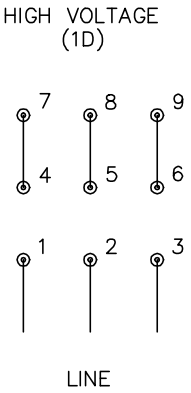



10LYC153
(1030-1076) = 27.76
[705]
12.88
[327]
4.38
[111]
.25
[6]
.25
[6]
.50 KEY
3.25 LONG
Ø 10.500
10.497
[266.70]
[266.62]
11.158
[283]
Ø 1.875
1.874
[47.63]
[47.60]
.38-16 TAP
GND LOC.
SLINGER
(EA. END)
(WHEN REQ'D)
Ø14.77
[375]
13.11
[333]
7.38
[188]
45°
45°
2.70
[69]
LEAD HOLE
Ø2.00
4 X .50-13 TAP
.88 DEEP ON
Ø9.00 B.C.
DRAIN FITTING
(EA. END)
10.56
[268]
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD LEADER FOR GND
REV: N
VERSION: 13
REVISED: 06:27:03 01/03/2024
TDR: 000001222843
MODEL NO. 10LYC153
REF: -
BY: ENSHAB0
B
BALDOR
VERT TEFC 284-6TC W/STL FAN COVER
10LYC153

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

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