

ABB BALDOR RELIANCE III

Customer information packet

VXT3254T-5

25HP, 1770RPM, 3PH, 60HZ, 284TC, 1056M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	25.000 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	24.000 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	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ620
Layout	10LYC153
Eff. date	06-11-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	05-28-2021

High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	85
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.	VXT3254T-5						I.P.	54			
SPEC.	10-0000-2155						ENCL	TEFC			
FRAME	284TC	H.P.	25				T. CODE	T3C			
VOLTS	575		P.F.		85						
F.L. AMPS	24		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		4.46						
DE	6311		ODE		6309						
MAG. CUR.	8.4										
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 # 71378

Typical performance - not guaranteed values

Winding: 10WGZ620-R004			Type: 1056M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25	Full Load Torque		74.36 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		24	Breakdown Torque		196 LB-FT		
R.P.M.		1770	Pull-up Torque		90.75 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		114 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		137 A
Service Factor (S.F.)		1	No-load Current		8.24 A		
NEMA Nom. Eff.		93.6	Power Factor	85	Line-line Res. @ 25°C		0.463 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		67°C	
				Locked-rotor Power Factor		30.4	
				Rotor inertia		4.46 LB-FT2	

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	51	73	82	85	86	86
Efficiency	90.9	93.7	94.1	93.6	92.8	92.1
Speed	1793	1785	1779	1771	1762	1751
Line amperes	9.93	13.55	18.28	23.59	29.19	35.78

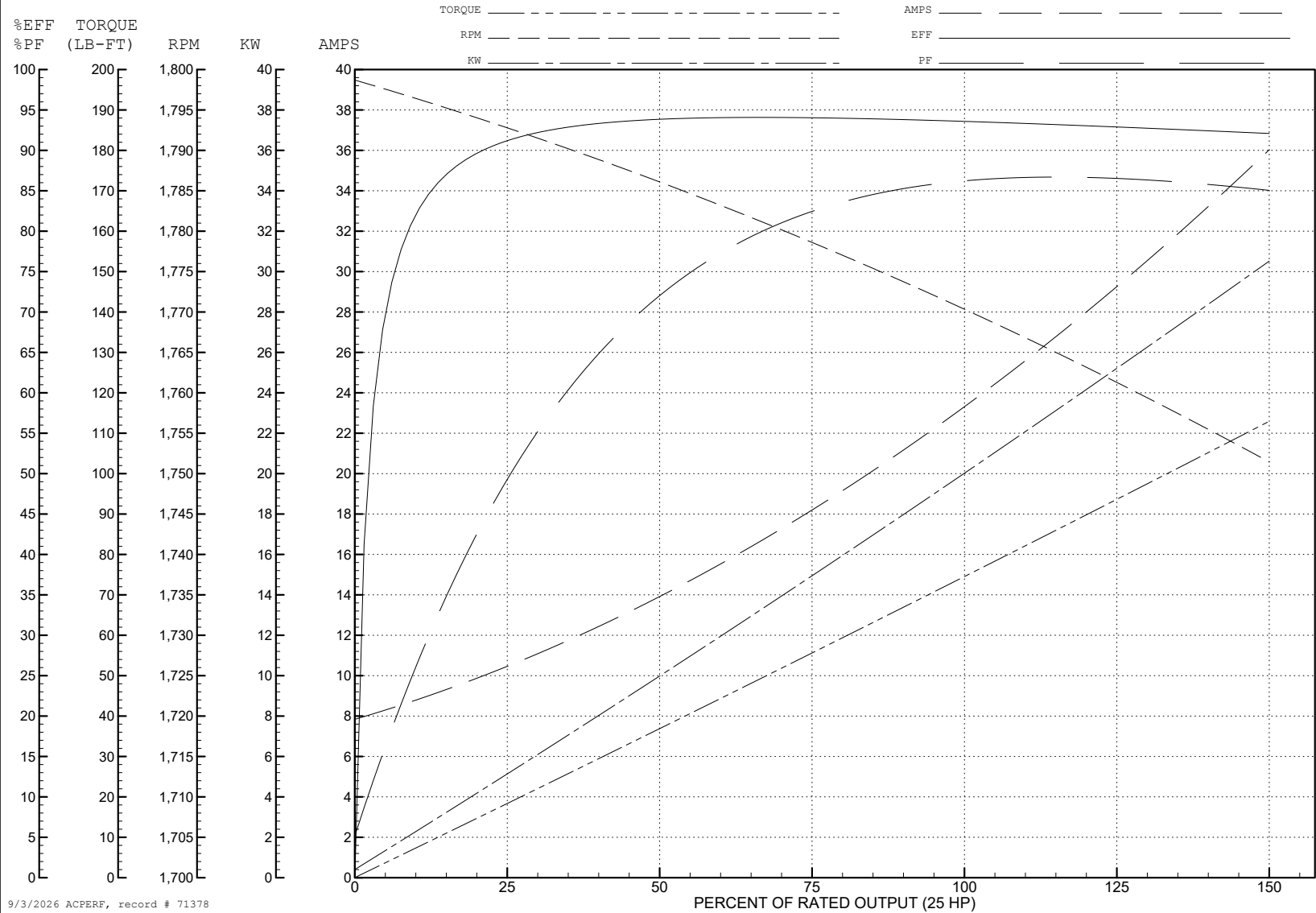
ABB Motors and Mechanical Inc.

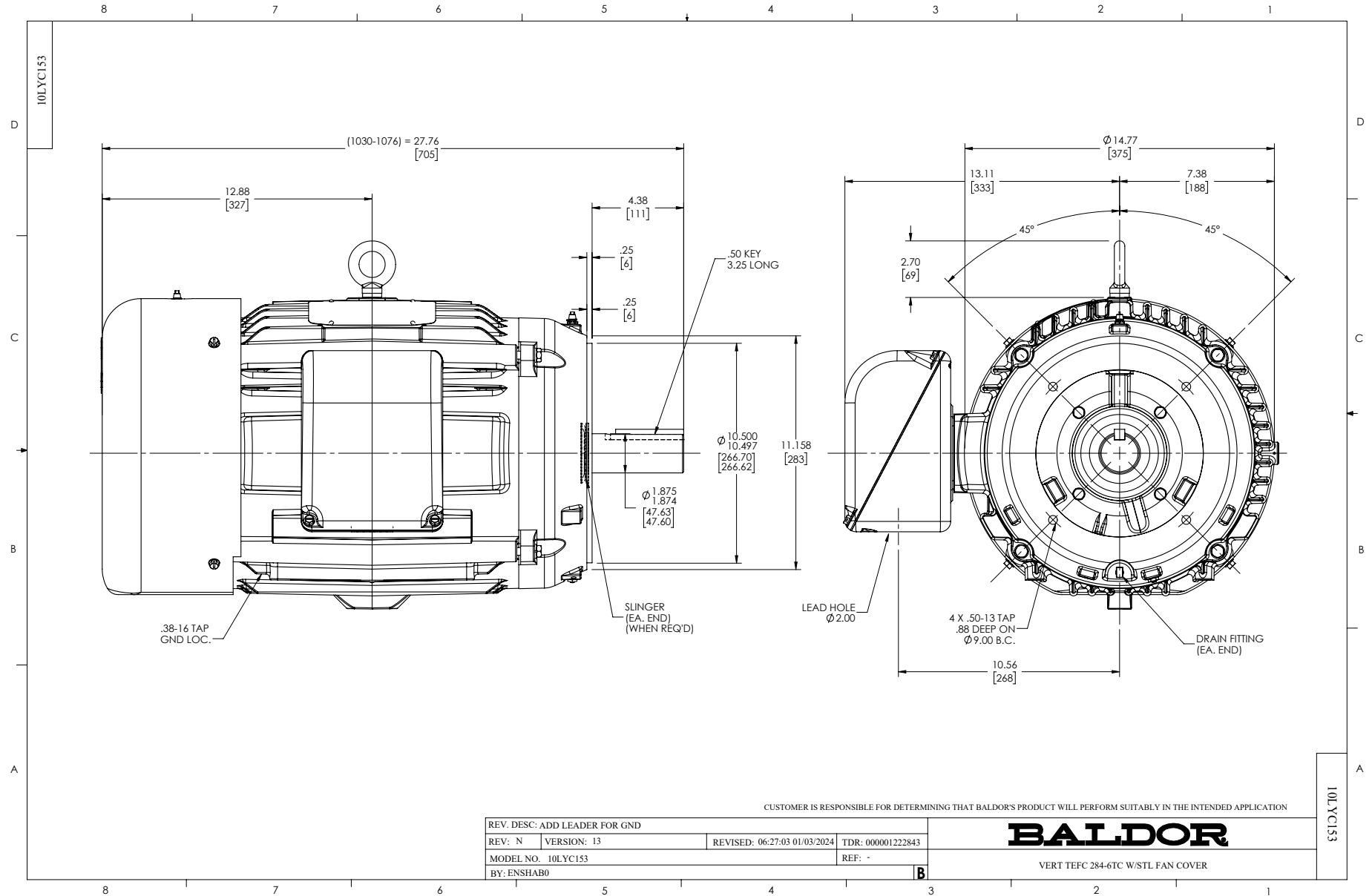
WINDING # 10WGZ620

Typical performance - not guaranteed values.

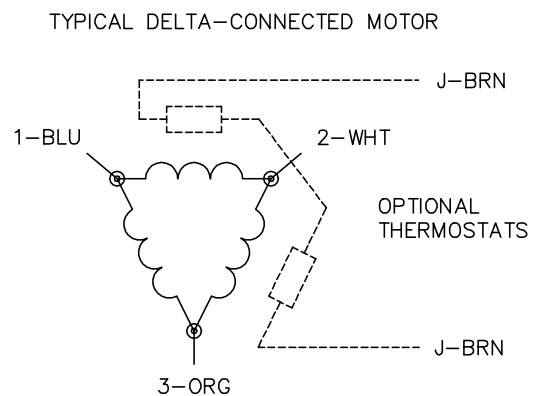
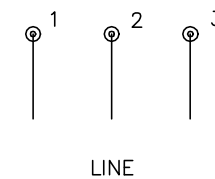
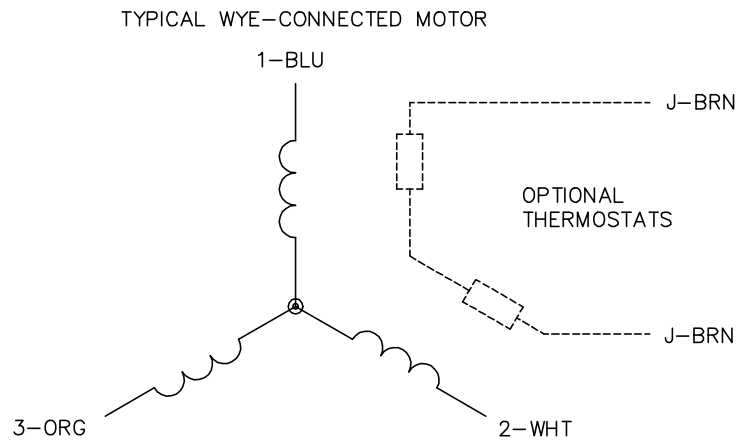
25 HP 3 PH 60 HZ 1770 RPM 575 V 1056M

TORQUES (LB-FT): PO=196 PU=90.75 LR=114 LRA=137





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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