

ABB BALDOR RELIANCE III

Customer information packet

VXT3302TS-5

30HP, 3525RPM, 3PH, 60HZ, 286TSC, 1048M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	286TSC
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	3600 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	6
Current @ Voltage	27.000 A @ 575.0 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	T3
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ523
Layout	10LYE310
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	06-01-2021

High Voltage Full Load Amps	27.0 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	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.39 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3525 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.	VXT3302TS-5						I.P.	54				
SPEC.	10-0000-2157						ENCL	TEFC				
FRAME	286TSC	H.P.		30		T. CODE		T3				
VOLTS	575			P.F.		90						
F.L. AMPS	27			RATING		40C AMB-CONT						
R.P.M.	3525											
HZ.	60	PH.		3	CLASS		F					
SER.F.	1.00	DES.		A	SL HZ		1.3					
NEMA NOM. EFF.	91.7	WK2		2.07								
DE	6311	ODE		6309								
MAG. CUR.	6.8											
INV TYPE	PWM	CHP	60	TO		90	INV TEMP CODE		T3			
CT	6	TO	60	VT		6	TO	60				
CC	010A	SN										

AC Induction Motor Performance Data

Record # 55458

Typical performance - not guaranteed values

Winding: 10WGZ523-R001			Type: 1048M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		44.8 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		27	Breakdown Torque		132 LB-FT		
R.P.M.		3525	Pull-up Torque		46 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		63.8 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		166 A
Service Factor (S.F.)		1.15	No-load Current		6.82 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.376 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps			Temp. Rise @ S.F. Load		86°C		
			Locked-rotor Power Factor		23.2		
			Rotor inertia		2.06 LB-FT2		

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	84	88	90	90	90	90
Efficiency	86.9	91.3	91.8	91.7	90.7	89.6	91.1
Speed	3583	3565	3546	3525	3503	3477	3512
Line amperes	9.8	14.9	20.9	27.3	34.5	42.1	31.6

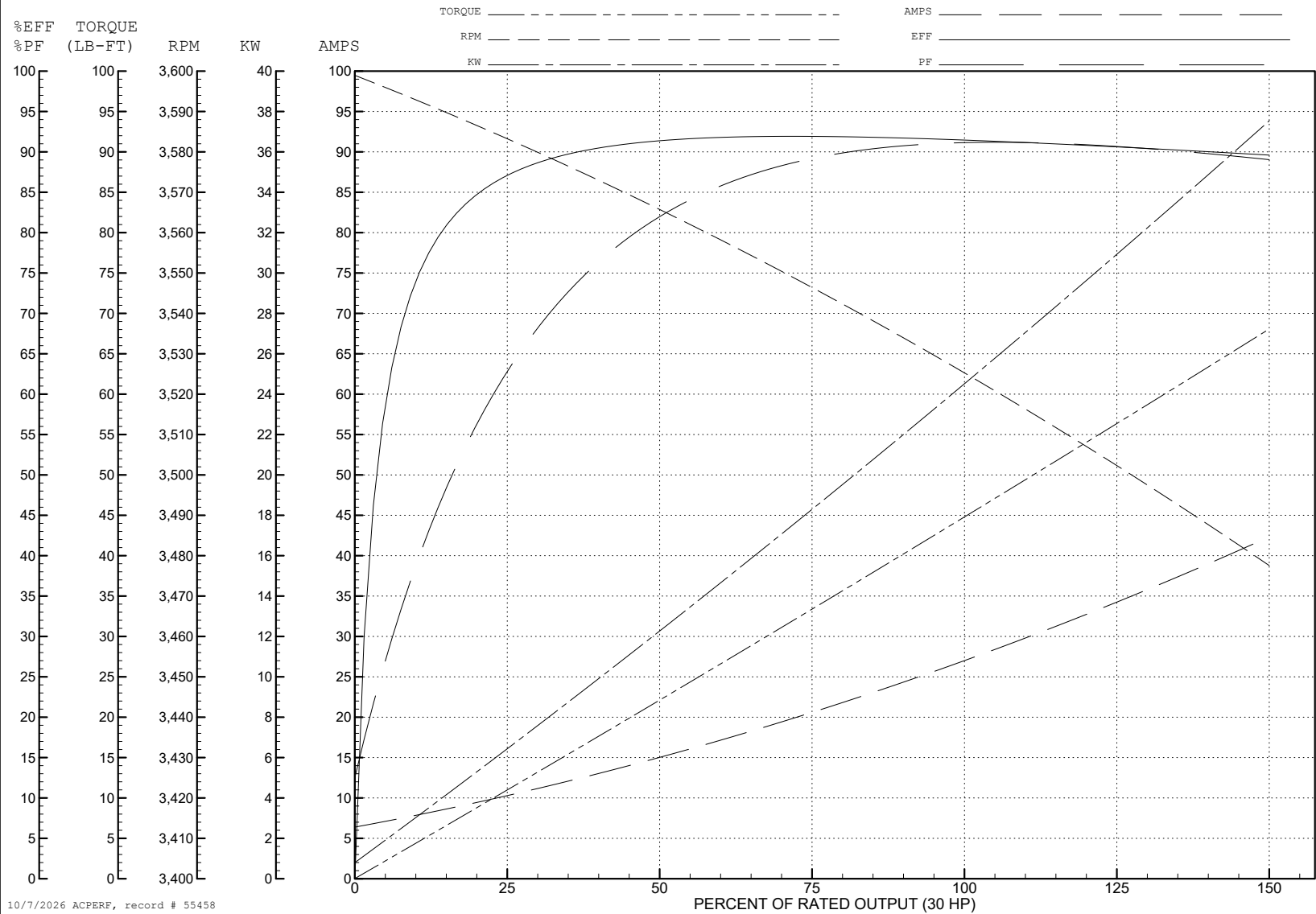
ABB Motors and Mechanical Inc.

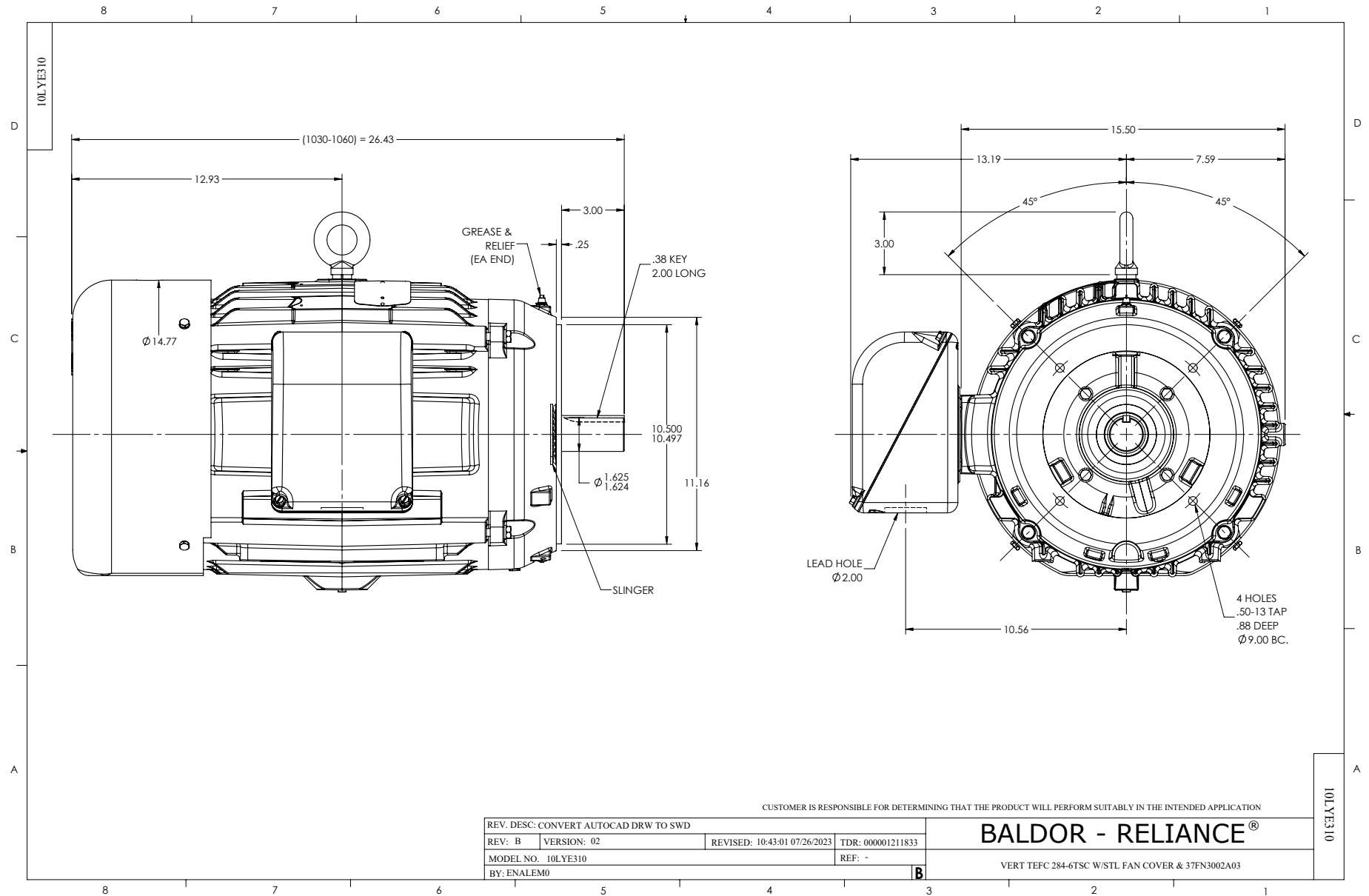
WINDING # 10WGZ523

Typical performance - not guaranteed values.

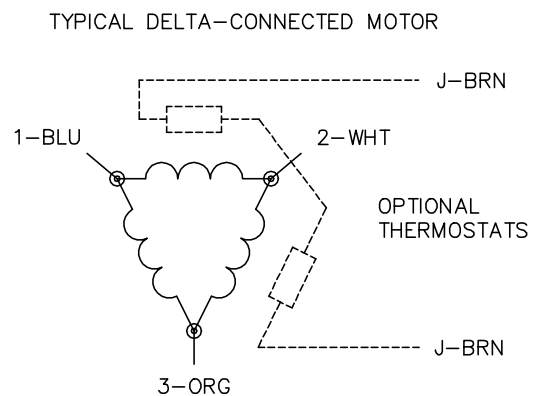
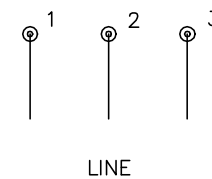
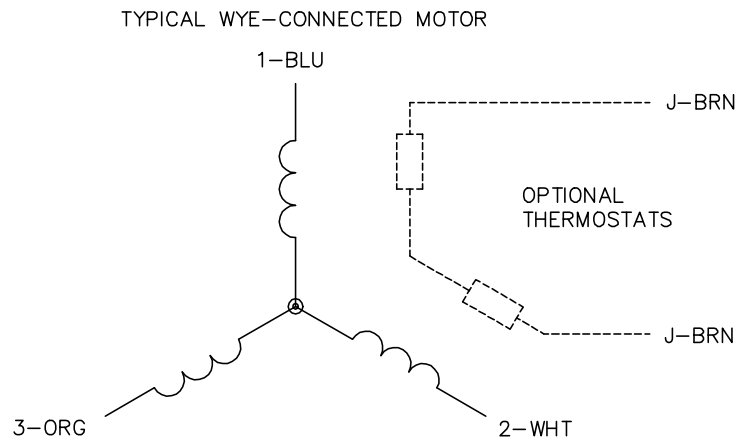
30 HP 3 PH 60 HZ 3525 RPM 575 V 1048M

TORQUES (LB-FT): PO=132 PU=46 LR=63.8 LRA=166





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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