

ABB BALDOR RELIANCE III

Customer information packet

VXT3022T-5

2HP, 3450RPM, 3PH, 60HZ, 143TC, 0532M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	143TC
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	2.000 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	2.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T4
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	05WGW062
Layout	05LY-000-374
Eff. date	11-27-2024
CD Diagram	CD00006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-25-2021

High Voltage Full Load Amps	2.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.54 IN
Power Factor	85
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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.	VXT3022T-5					I.P.	54		
SPEC.	05-0000-0999					ENCL	TEFC		
FRAME	143TC	H.P.	2		T. CODE	T4			
VOLTS	575		P.F.	85					
F.L. AMPS	2		RATING	40C AMB-CONT					
R.P.M.	3450								
HZ.	60	PH.	3	CLASS	F				
SER.F.	1.15	DES.	B	SL HZ	1.7				
NEMA NOM. EFF.	86.5	WK2	0.09						
DE	6205	ODE	6203						
MAG. CUR.	.9								
INV TYPE	PWM	CHP	60	TO	90	INV TEMP CODE	T4		
CT	6	TO	60	VT	6	TO	60		
CC	010A	SN							
	1.15 SF ON SINE WAVE								

AC Induction Motor Performance Data

Record # 40

Typical performance - not guaranteed values

Winding: 05WGW062-R001			Type: 0532M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		2	Full Load Torque		3 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		2	Breakdown Torque		16 LB-FT		
R.P.M.		3450	Pull-up Torque		12.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		16 LB-FT	
NEMA Design Code		B	KVA Code	N	Starting Current		24 A
Service Factor (S.F.)		1.15	No-load Current		0.86 A		
NEMA Nom. Eff.		86.5	Power Factor	85	Line-line Res. @ 25°C		8.58 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C	
S.F. Amps				Temp. Rise @ S.F. Load		36°C	

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	70	80	85	88	89	87
Efficiency	75.2	83.8	86.2	86.7	86.4	85.5	86.5
Speed	3571	3548	3525	3501	3476	3448	3486
Line amperes	1.02	1.32	1.67	2.04	2.46	2.91	2.3

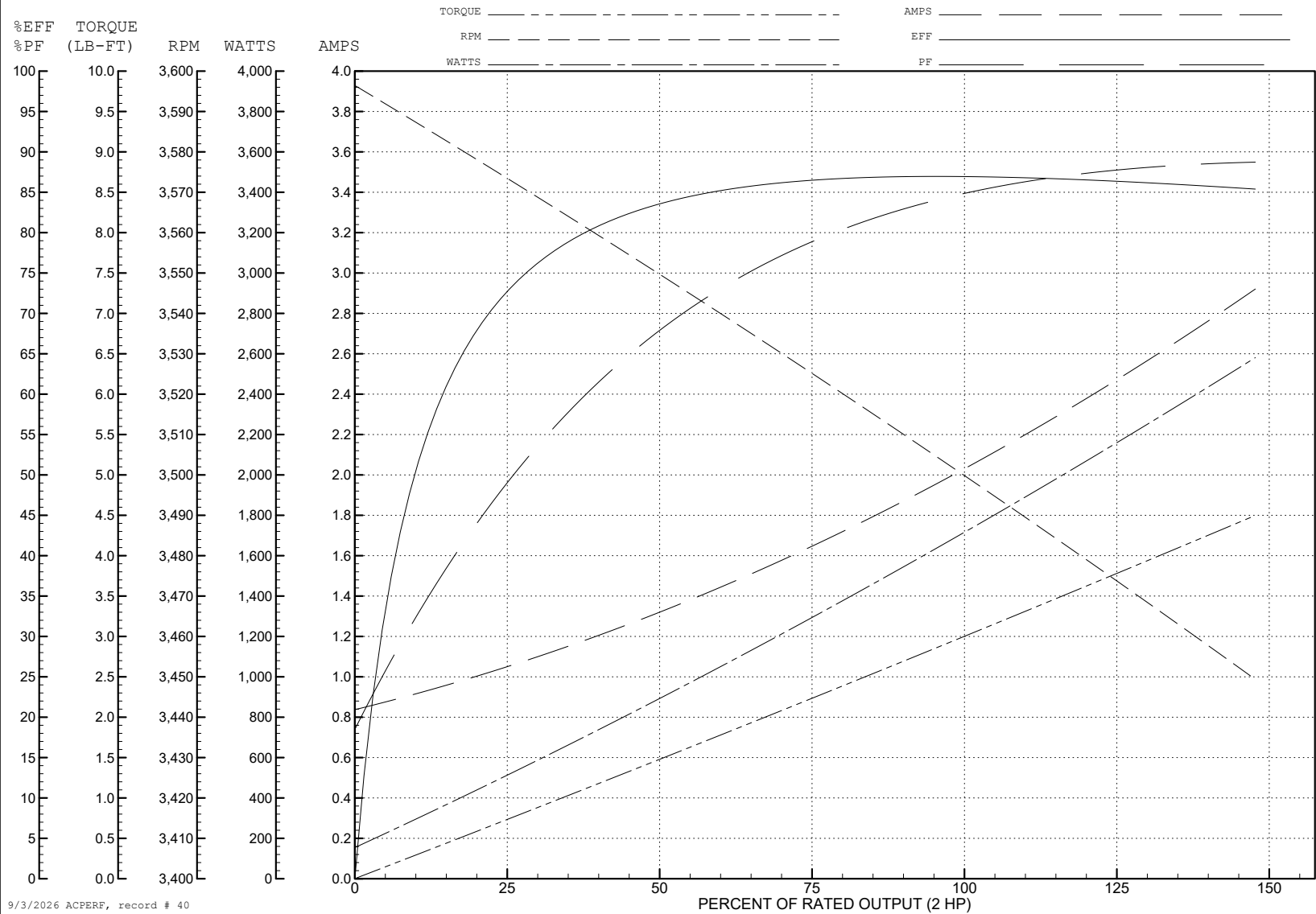
ABB Motors and Mechanical Inc.

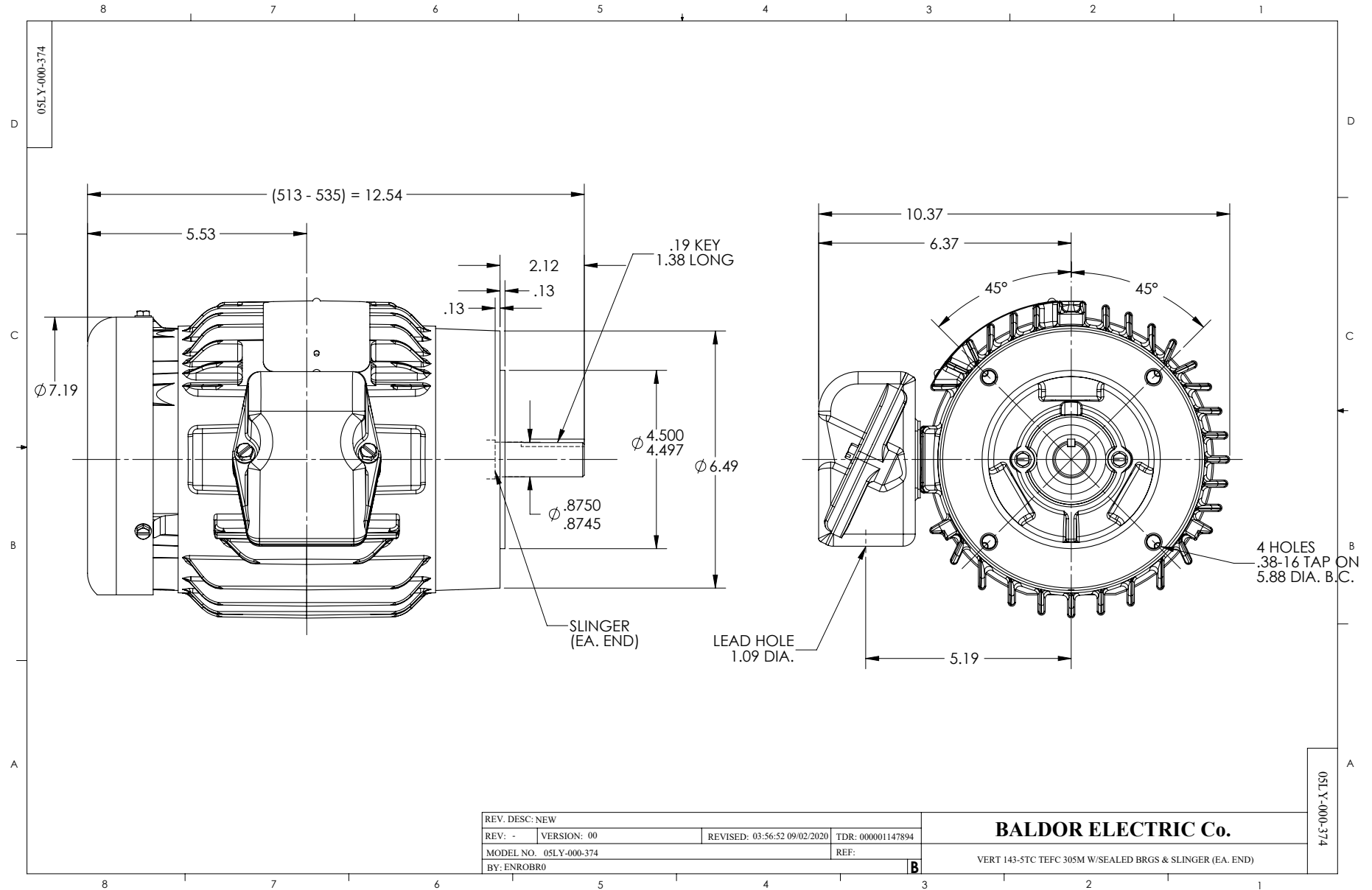
WINDING # 05WGW062

Typical performance - not guaranteed values.

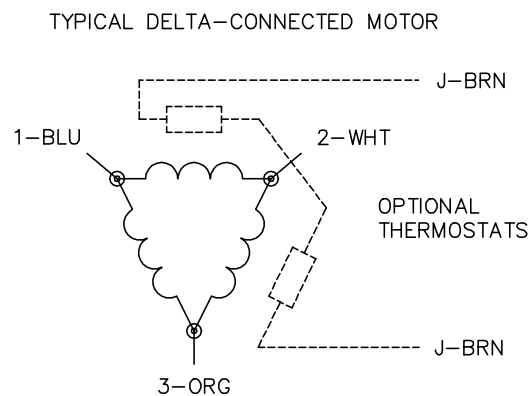
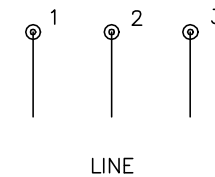
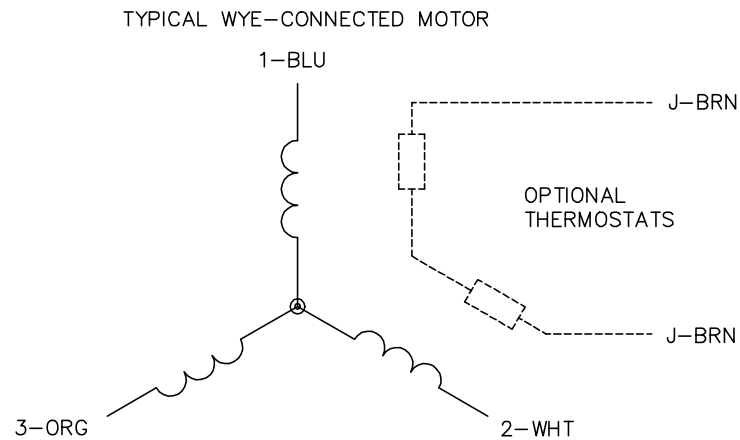
2 HP 3 PH 60 HZ 3450 RPM 575 V 0532M

TORQUES (LB-FT): PO=16 PU=12.5 LR=16 LRA=24





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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