ABB BALDOR RELIANCE

Customer information packet

VXT3022T-5

2HP, 3450RPM, 3PH, 60HZ, 143TC, 0532M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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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	CD0006
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. @ 25ºC**	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

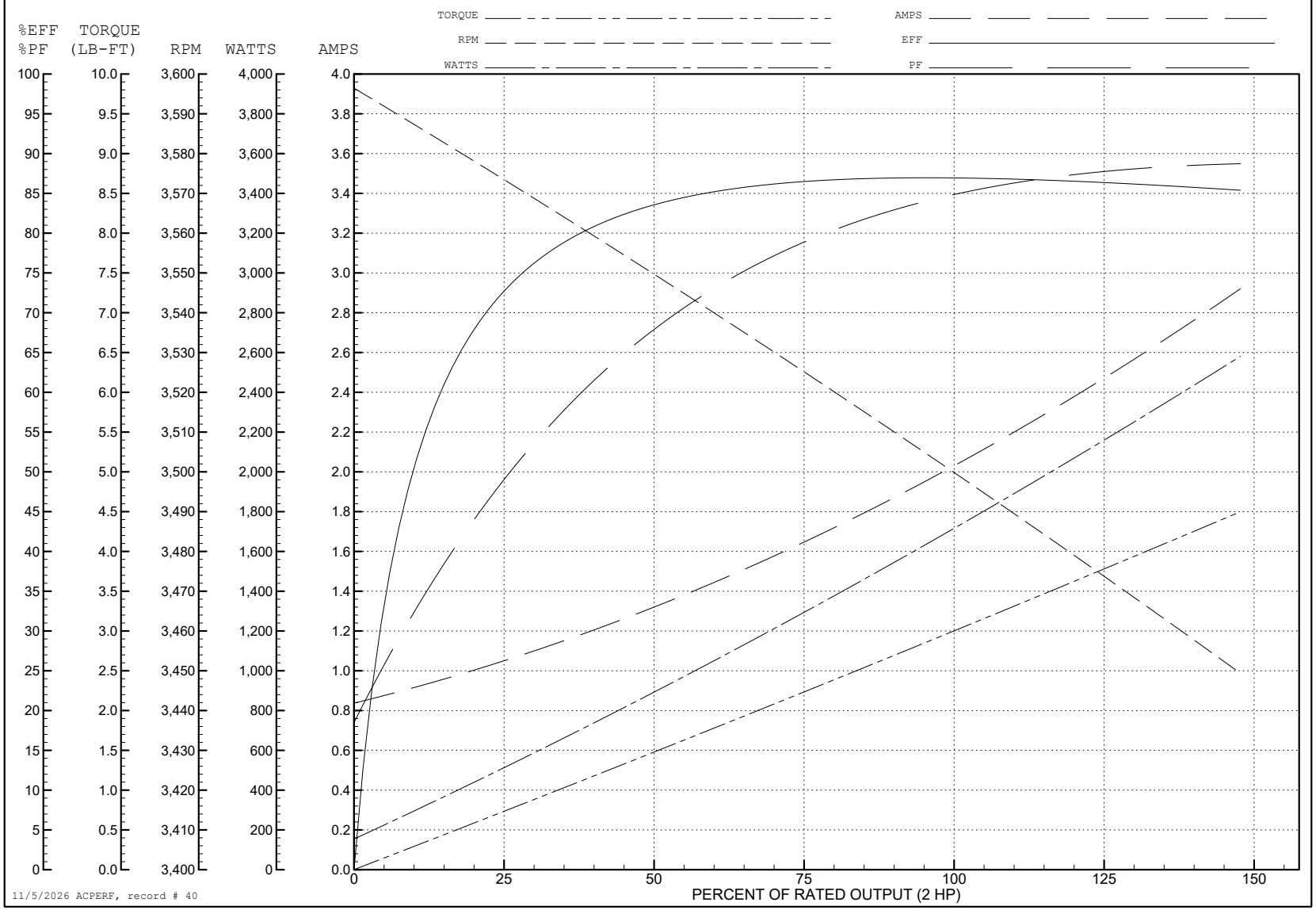
ABB Motors and Mechanical Inc.

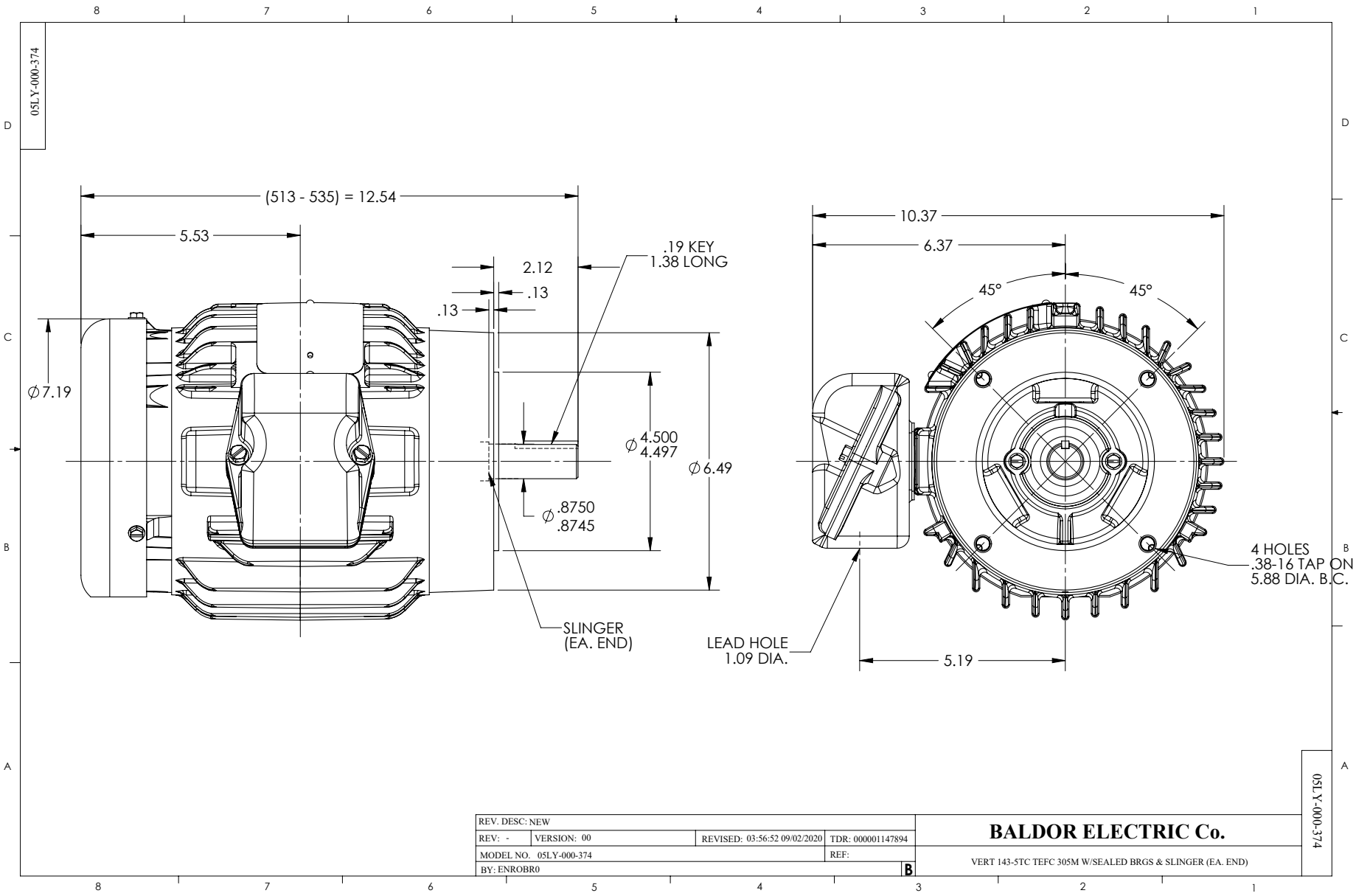
WINDING # 05WGW062

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

Typical performance - not guaranteed values.

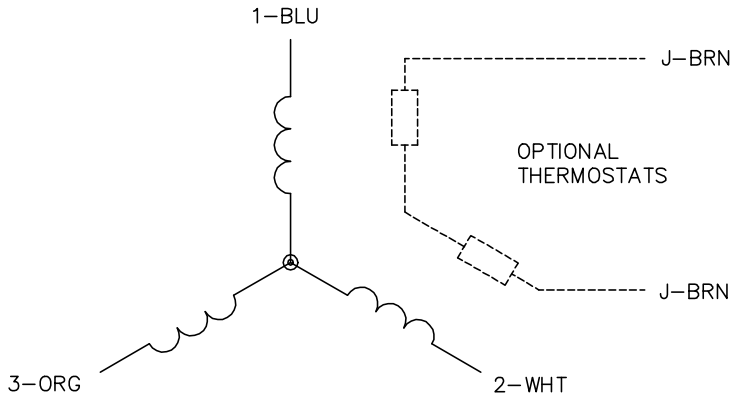
TORQUES(LB-FT): PO=16 PU=12.5 LR=16 LRA=24

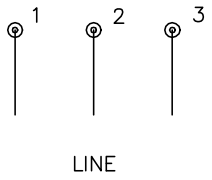



05LY-000-374
(513 - 535) = 12.54
5.53
2.12
.13
.13
.19 KEY
1.38 LONG
∅7.19
∅4.500
4.497
∅6.49
∅.8750
.8745
SLINGER
(EA. END)
10.37
6.37
45°
45°
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
1.09 DIA.
5.19
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 03:56:52 09/02/2020 TDR: 000001147894
MODEL NO. 05LY-000-374 REF:
BY: ENROBR0 B
BALDOR ELECTRIC Co.
VERT 143-5TC TEFC 305M W/SEALED BRGS & SLINGER (EA. END)
05LY-000-374

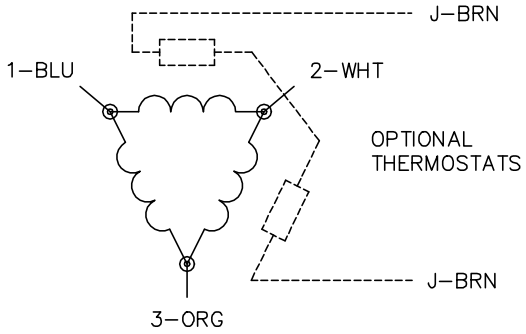
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
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BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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