ABB BALDOR RELIANCE

Customer information packet

VXT3022T

2HP, 3450RPM, 3PH, 60HZ, 145TC, 0532M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/5/2026 10:12:32 AM

Specifications

Enclosure	TEFC
Frame	145TC
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	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	NEMA PREMIUM
	CURUSEEV
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	5.400 A @ 208.0 V
	5.000 A @ 230.0 V
	2.500 A @ 460.0 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

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	05WGW115
Layout	05LY-000-374
Eff. date	01-02-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-20-2020

Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 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

NP4163L									
CAT.NO.	VXT3022T					**I.P.**	54		
SPEC.	05-0000-0902					**ENCL**	TEFC		
FRAME	145TC		**H.P.**	2					
VOLTS	208-230/460		**P.F.**	85					
F.L. AMPS	5.4-5/2.5				**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.	2.2/1.1								
INV TYPE	PWM	**CHP**	60	**TO**	90	**T. CODE**	T4		
CT	6	**TO**	60	**VT**	6	**TO**	60		
CC	010A	**SN**							
	USABLE AT 50 HZ 1.5HP 190/380V								
	4.8/2.4A								

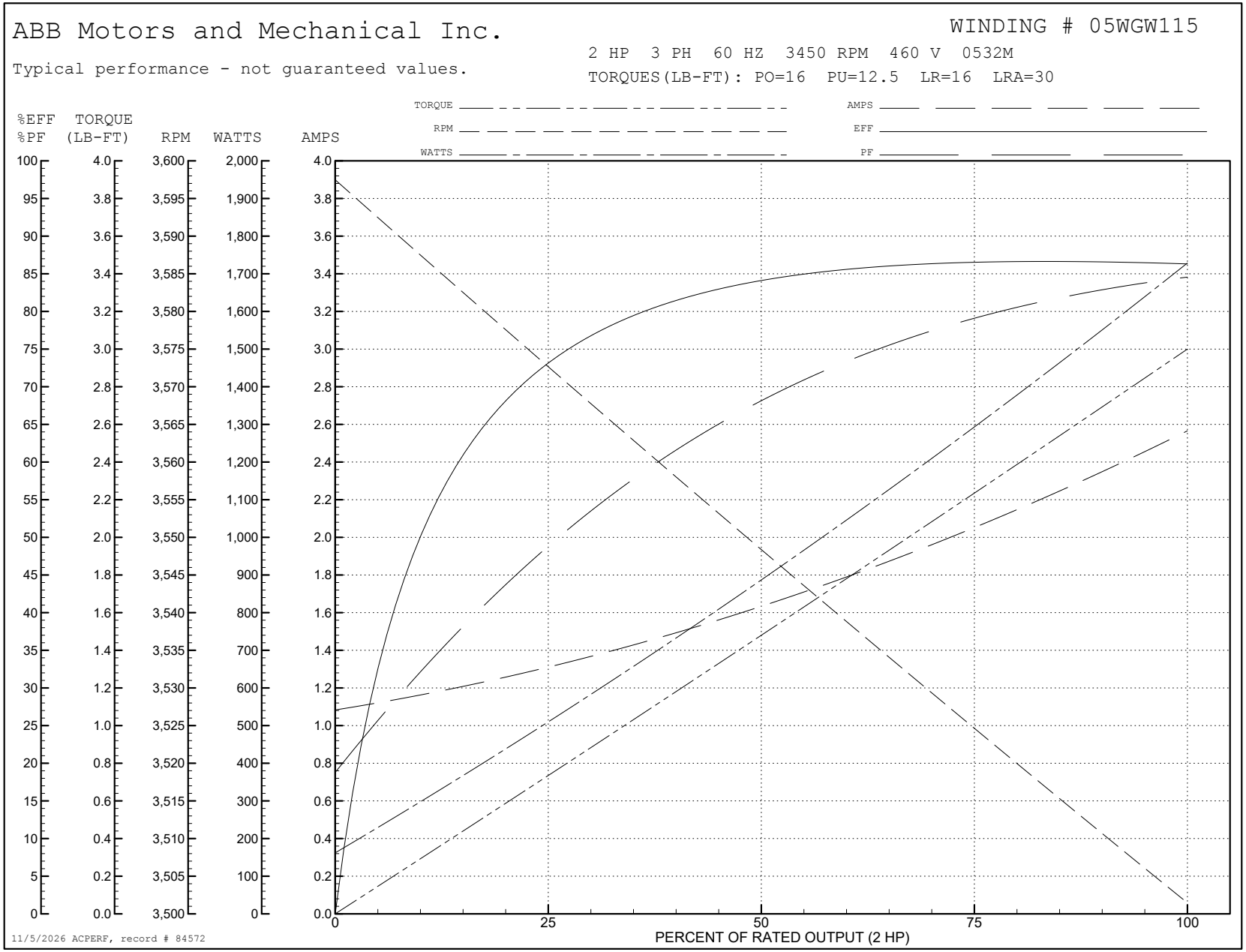
AC Induction Motor Performance Data
Record # 84572
Typical performance - not guaranteed values

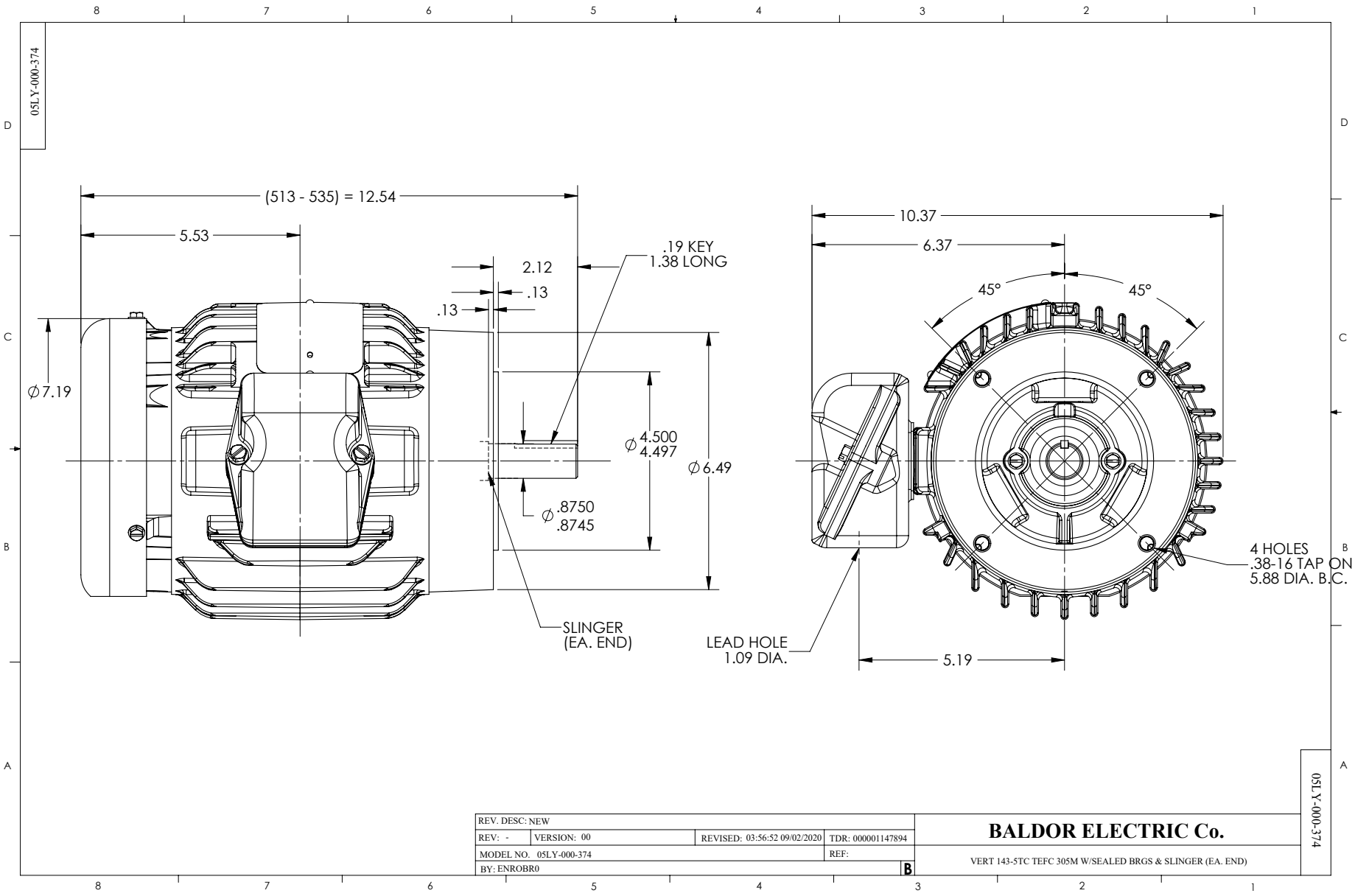
Winding: 05WGW115-R032	**Type:** 0532M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.4-5/2.5	**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**	30 A
Service Factor (S.F.)			1	**No-load Current**	1.1 A
NEMA Nom. Eff.	86.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	5.4 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
				Rotor inertia	0.0885 lb-ft²

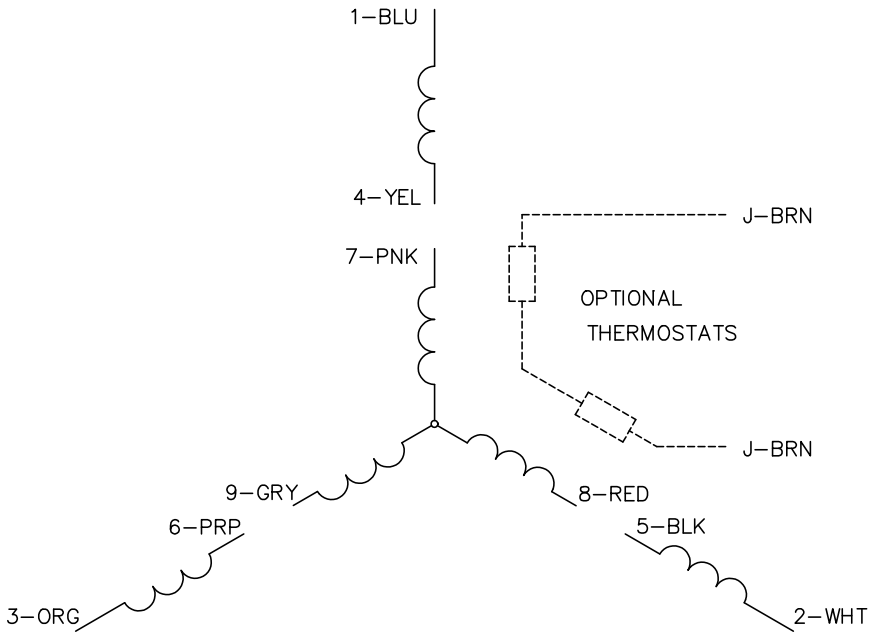
Load Characteristics 460 V, 60 Hz, 2 HP

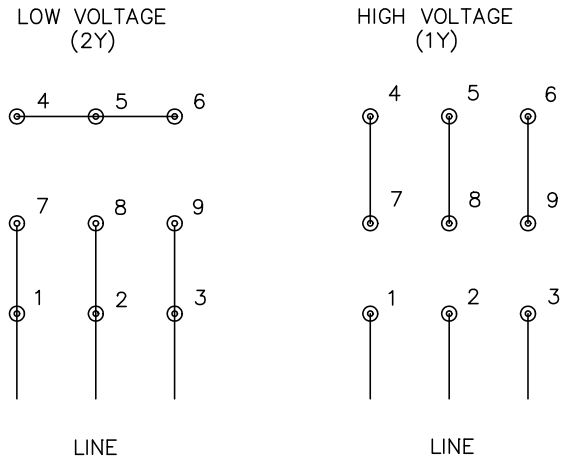
% of Rated Load	**25**	**50**	**75**	**100**
Power Factor	50	70	80	85
Efficiency	75.2	83.8	86.2	86.5
Speed	3571	3548	3525	3501
Line amperes	1.28	1.65	2.09	2.55


ABB Motors and Mechanical Inc.
WINDING # 05WGW115
2 HP 3 PH 60 HZ 3450 RPM 460 V 0532M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=16 PU=12.5 LR=16 LRA=30
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 84572


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

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS