

ABB BALDOR RELIANCE III

Customer information packet

VXT3012T-5

1HP, 3450RPM, 3PH, 60HZ, 143TC, 0516M, 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	1.000 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	1.100 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
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.	05WGW060
Layout	05LY-000-374
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-24-2021

High Voltage Full Load Amps	1.1 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.54 IN
Power Factor	82
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.	VXT3012T-5						I.P.	54				
SPEC.	05-0000-0993						ENCL	TEFC				
FRAME	143TC	H.P.		1		T. CODE		T4				
VOLTS	575			P.F.		82						
F.L. AMPS	1.1			RATING		40C AMB-CONT						
R.P.M.	3450											
HZ.	60		PH.		3		CLASS		F			
SER.F.	1.15		DES.		B		SL HZ		2			
NEMA NOM. EFF.	84		WK2		0.05							
DE	6205		ODE		6203							
MAG. CUR.	.55											
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												
SFA 1.2												

AC Induction Motor Performance Data

Record # 51089

Typical performance - not guaranteed values

Winding: 05WGW060-R004			Type: 0516M		Enclosure: TEAO			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		1.1	Breakdown Torque		6.5 LB-FT			
R.P.M.		3450	Pull-up Torque		4.8 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		5.7 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		9.7 A	
Service Factor (S.F.)		1.15	No-load Current		0.54 A			
NEMA Nom. Eff.		84	Power Factor		82	Line-line Res. @ 25°C		24.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			
					Locked-rotor Power Factor		56.4	
					Rotor inertia		0.0443 LB-FT2	

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	65	77	83	87	87	85
Efficiency	70.4	80.6	84	84.6	84.7	83.7	84.7
Speed	3567	3539	3510	3479	3446	3410	3459
Line amperes	0.6	0.72	0.87	1.06	1.25	1.5	1.17

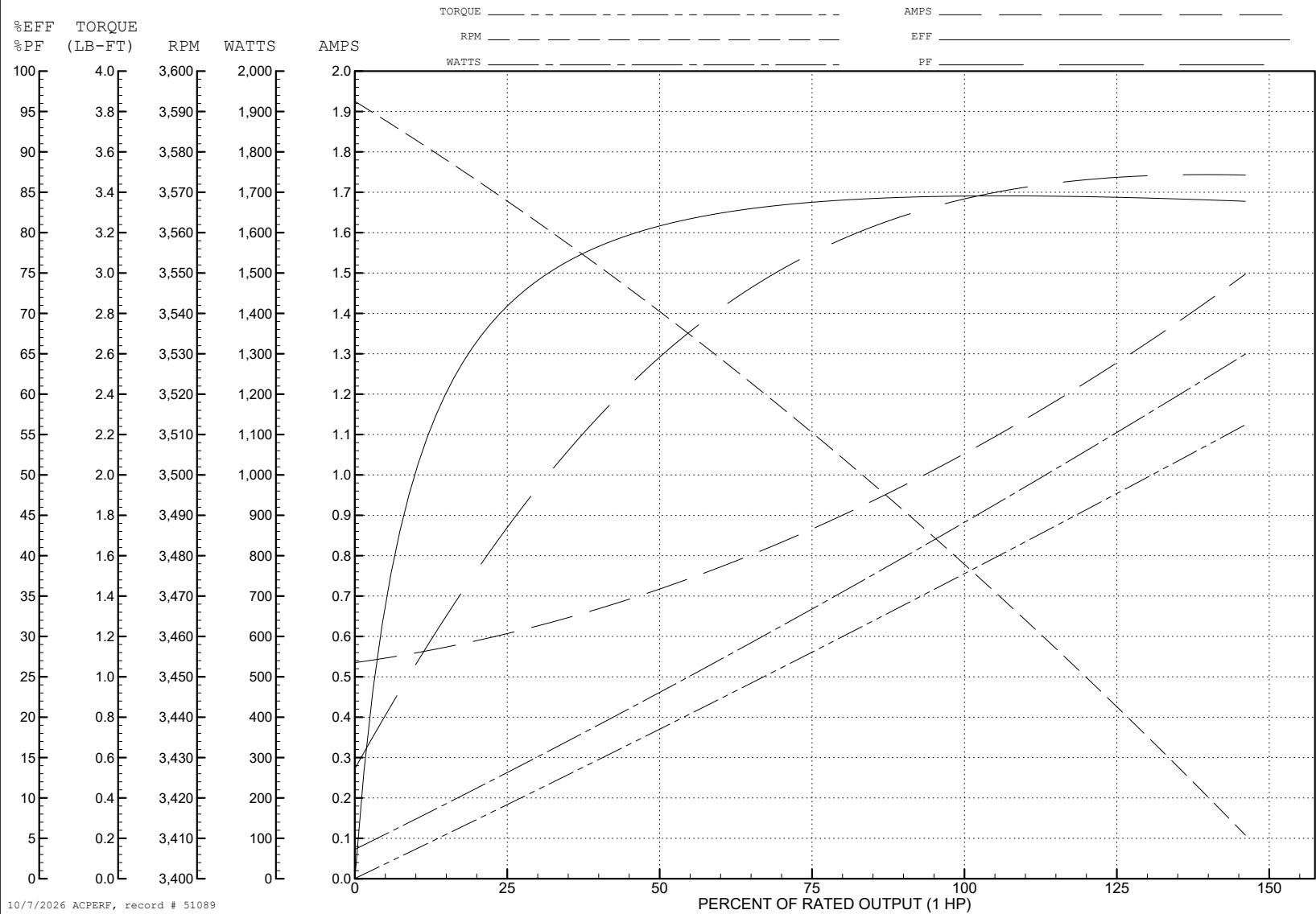
ABB Motors and Mechanical Inc.

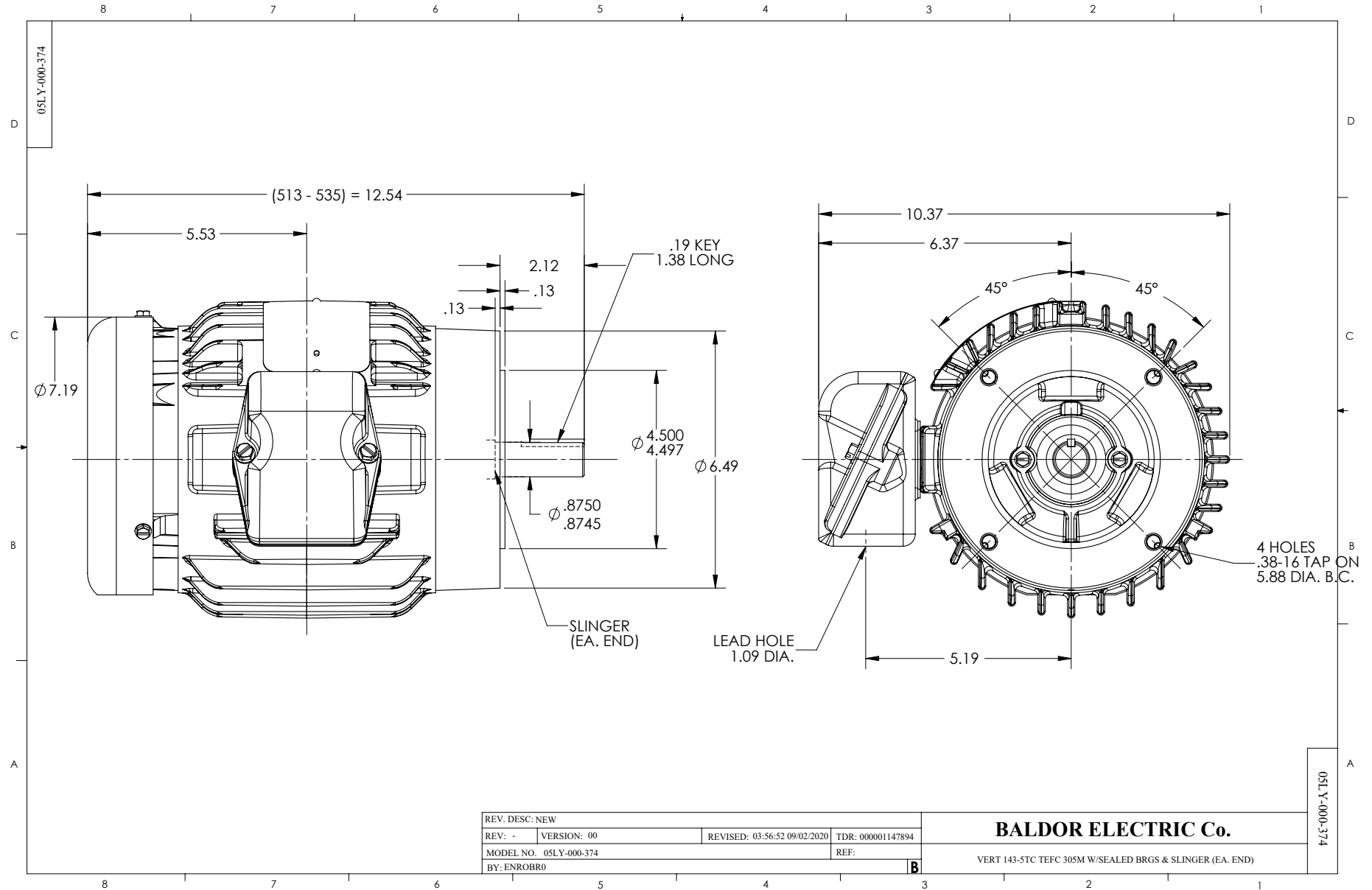
WINDING # 05WGW060

Typical performance - not guaranteed values.

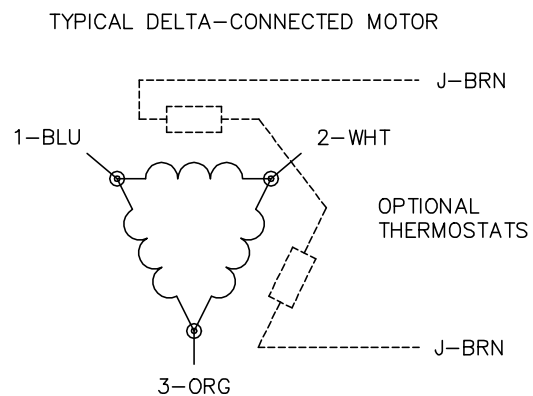
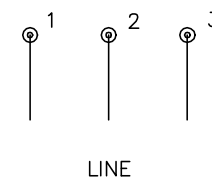
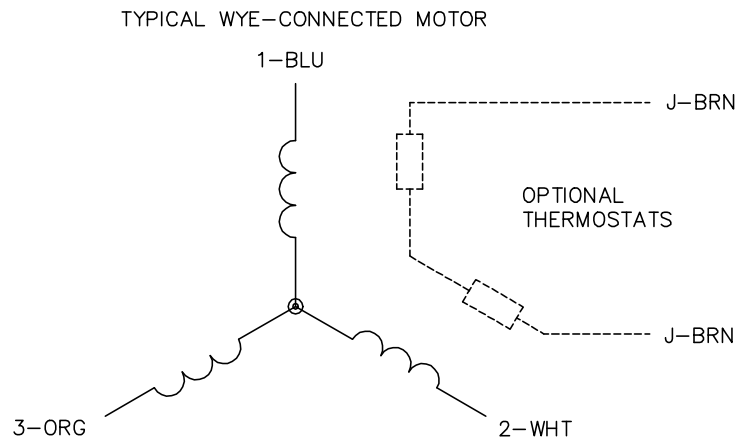
1 HP 3 PH 60 HZ 3450 RPM 575 V 0516M

TORQUES (LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=9.7





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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