

ABB BALDOR RELIANCE III

Customer information packet

VXT3014T-5

1HP, 1770RPM, 3PH, 60HZ, 143TC, 0520M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	3
Current @ Voltage	1.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part Detail

Revision	A
Type	AC
Mech. spec.	05E6082
Base	
Status	PRD/A
Elec. spec.	05WGX567
Layout	05LYE6082
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	12-20-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.54 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	VXT3014T-5					I.P.	54		
SPEC.	05E6082X567G1					ENCL	TEFC		
FRAME	143TC	H.P.	1		T. CODE	T4			
VOLTS	575	P.F.	72						
F.L. AMPS	1.2	RATING	40C AMB-CONT						
R.P.M.	1770								
HZ.	60	PH.	3	CLASS	F				
SER.F.	1.15	DES.	B	SL HZ	1				
NEMA NOM. EFF.	85.5	WK2	0.144						
DE	6205	ODE	6203						
MAG. CUR.	.77								
INV TYPE	PWM	CHP	60	TO	90	INV TEMP CODE	T4		
CT	3	TO	60	VT	3	TO	60		
CC	010A	SN							
1.15 SF ON SINE WAVE									
SFA 1.33									

AC Induction Motor Performance Data

Record # 89185

Typical performance - not guaranteed values

Winding: 05WGX567-R003			Type: 0520M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1	Full Load Torque		2.96 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.2	Breakdown Torque		11.89 LB-FT	
R.P.M.		1770	Pull-up Torque		7.42 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	9.63 LB-FT	
NEMA Design Code	B	KVA Code	M	Starting Current	10.72 A	
Service Factor (S.F.)		1.15	No-load Current		0.768 A	
NEMA Nom. Eff.	85.5	Power Factor	72	Line-line Res. @ 25°C	32.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		31°C	
S.F. Amps			Temp. Rise @ S.F. Load		37°C	
			Locked-rotor Power Factor		62.9842	
			Rotor inertia		0.144 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	51	64	72	78	82	76
Efficiency	72.5	82.2	85.1	85.4	85.1	84	85.2
Speed	1792	1784	1776	1768	1758	1748	1762
Line amperes	0.803	0.9	1.04	1.21	1.41	1.63	1.33

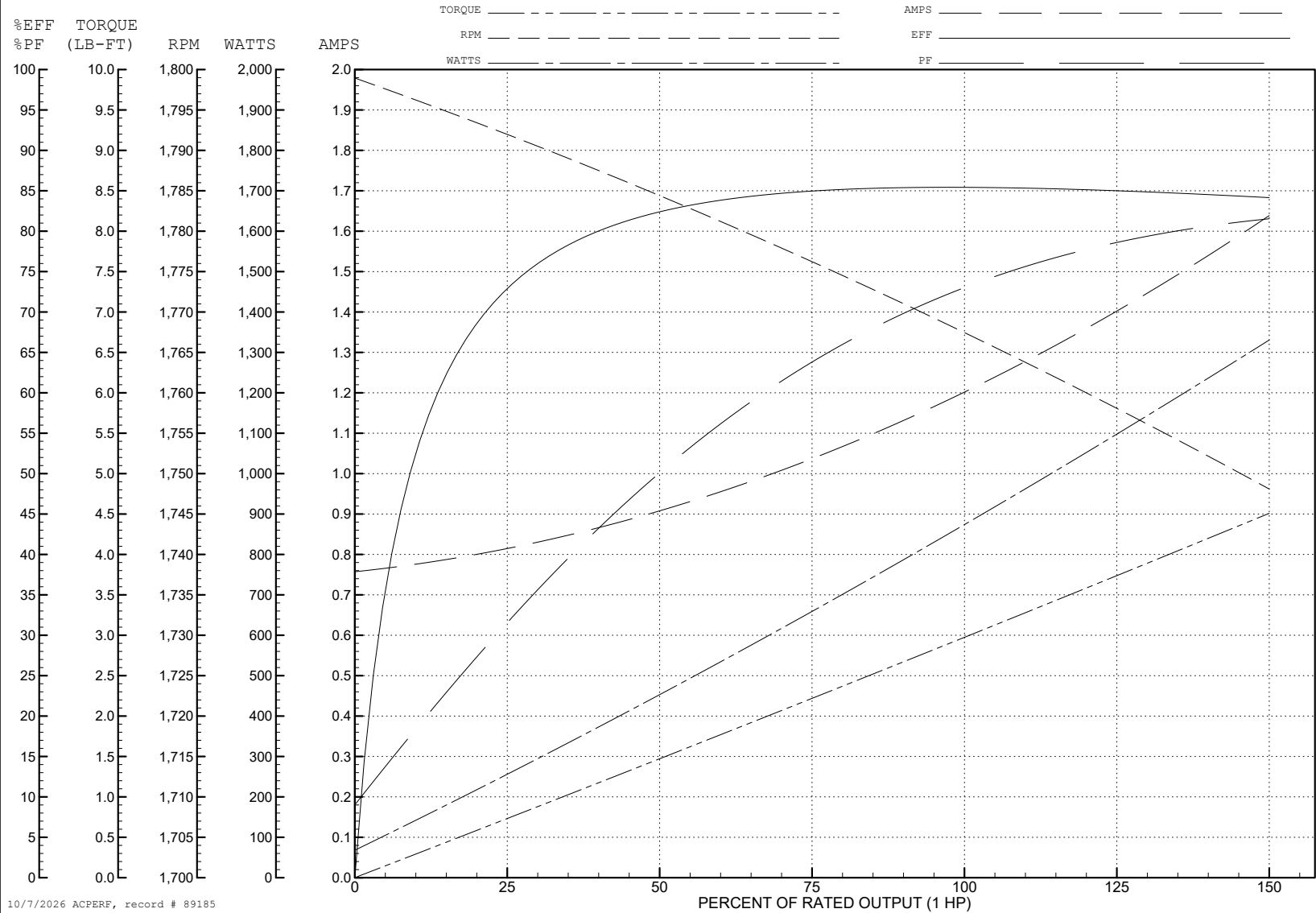
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WINDING # 05WGX567

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 575 V 0520M

TORQUES (LB-FT): PO=11.89 PU=7.42 LR=9.63 LRA=10.72



AC Induction Motor Performance Data

Record # 110711

Typical performance - not guaranteed values

Winding: 05WGX567-R003			Type: 0520M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		1.2	Breakdown Torque		7.6 LB-FT
R.P.M.		1770	Pull-up Torque		4.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	6.1 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	8.5 A
Service Factor (S.F.)		1.15	No-load Current		0.59 A
NEMA Nom. Eff.	85.5	Power Factor	72	Line-line Res. @ 25°C	32.1 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		35°C
S.F. Amps		1.33	Temp. Rise @ S.F. Load		45°C
			Locked-rotor Power Factor		62.2
			Rotor inertia		0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	65	76	81	84	86	83
Efficiency	78.2	84.8	85.4	83.9	81.8	78.7	82.6
Speed	1788	1776	1763	1749	1731	1711	1738
Line amperes	0.67	0.85	1.08	1.37	1.7	2.07	1.57

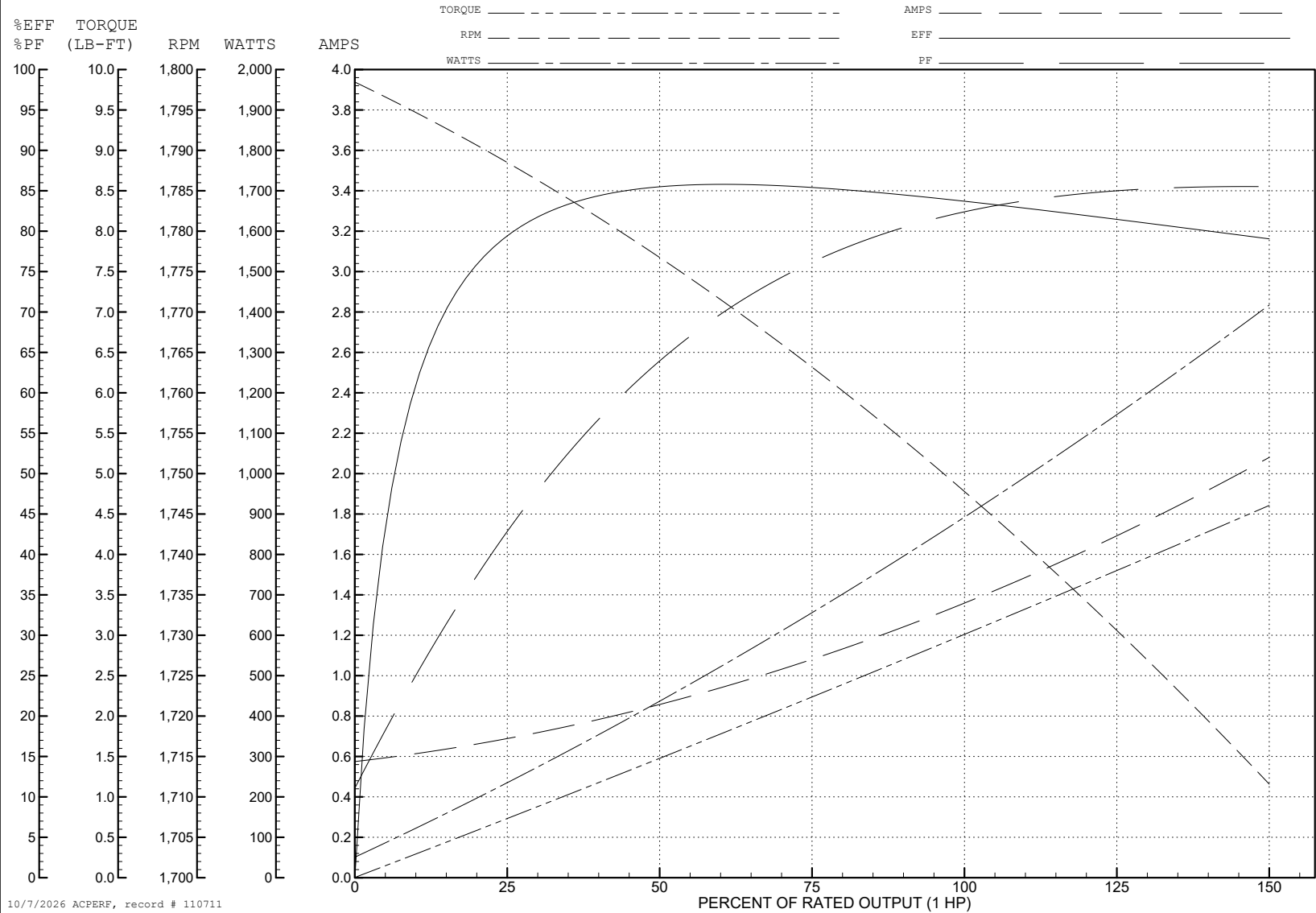
ABB Motors and Mechanical Inc.

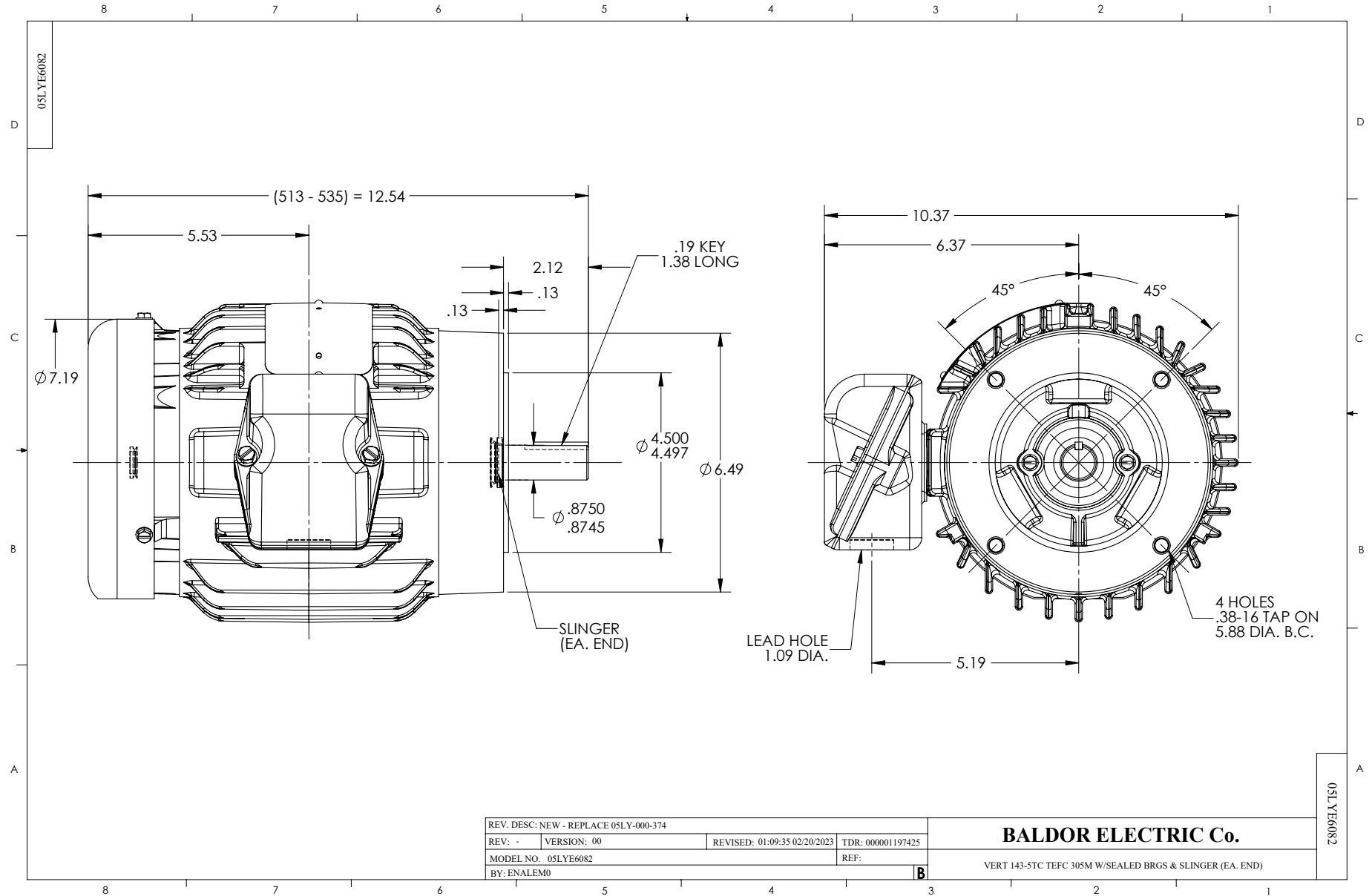
WINDING # 05WGX567

Typical performance - not guaranteed values.

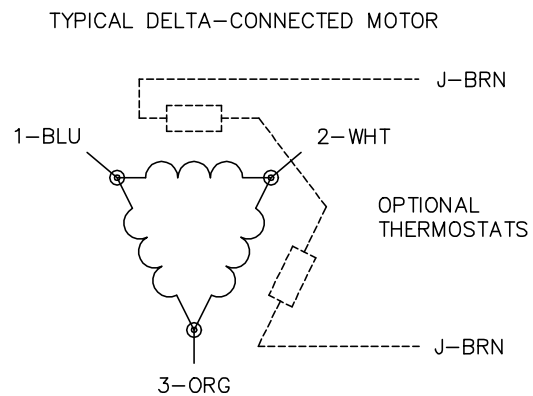
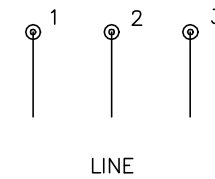
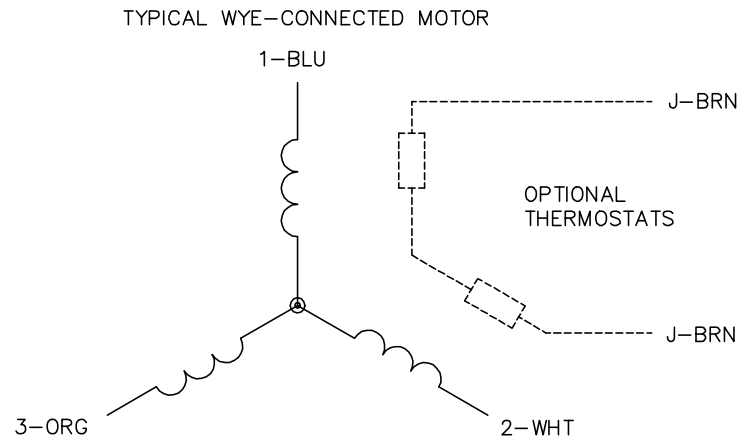
1 HP 3 PH 60 HZ 1770 RPM 460 V 0520M

TORQUES (LB-FT): PO=7.6 PU=4.7 LR=6.1 LRA=8.5





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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