ABB BALDOR RELIANCE

Customer information packet

VEM3587T-5

2HP, 1765RPM, 3PH, 60HZ, 145TC, 0528M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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
Current @ Voltage	2.150 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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L

Part Detail

Revision	D
Type	AC
Mech. spec.	05C053
Base	
Status	PRD/A
Elec. spec.	05WGX552
Layout	05LYC053
Eff. date	04-29-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

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	0528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.03 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1765 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

NP3441L										
CAT.NO.	VEM3587T-5									
SPEC.	05C053X552G1									
HP	2									
VOLTS	575									
AMP	2.15									
RPM	1765									
FRAME	145TC	**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F			
NEMA-NOM-EFF	86.5	**PF**	80							
RATING	40C AMB-CONT									
CC	010A									
DE	6205	**ODE**	6203							
ENCL	TEFC	**SN**								
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	SFA 2.57									

AC Induction Motor Performance Data
Record # 81984
Typical performance - not guaranteed values

Winding: 05WGX552-R001	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	5.96 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.15	**Breakdown Torque**	24.3 LB-FT
R.P.M.			1764	**Pull-up Torque**	11.97 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16.23 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	18.92 A
Service Factor (S.F.)			1.15	**No-load Current**	1.46 A
NEMA Nom. Eff.	86.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	15 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	49°C
				Locked-rotor Power Factor	57
				Rotor inertia	0.188 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	66	75	80	83	78
Efficiency	76.4	84.5	86.5	86.4	85.6	84.2	85.9
Speed	1790	1782	1773	1763	1753	1741	1757
Line amperes	1.5	1.68	1.97	2.32	2.74	3.21	2.57

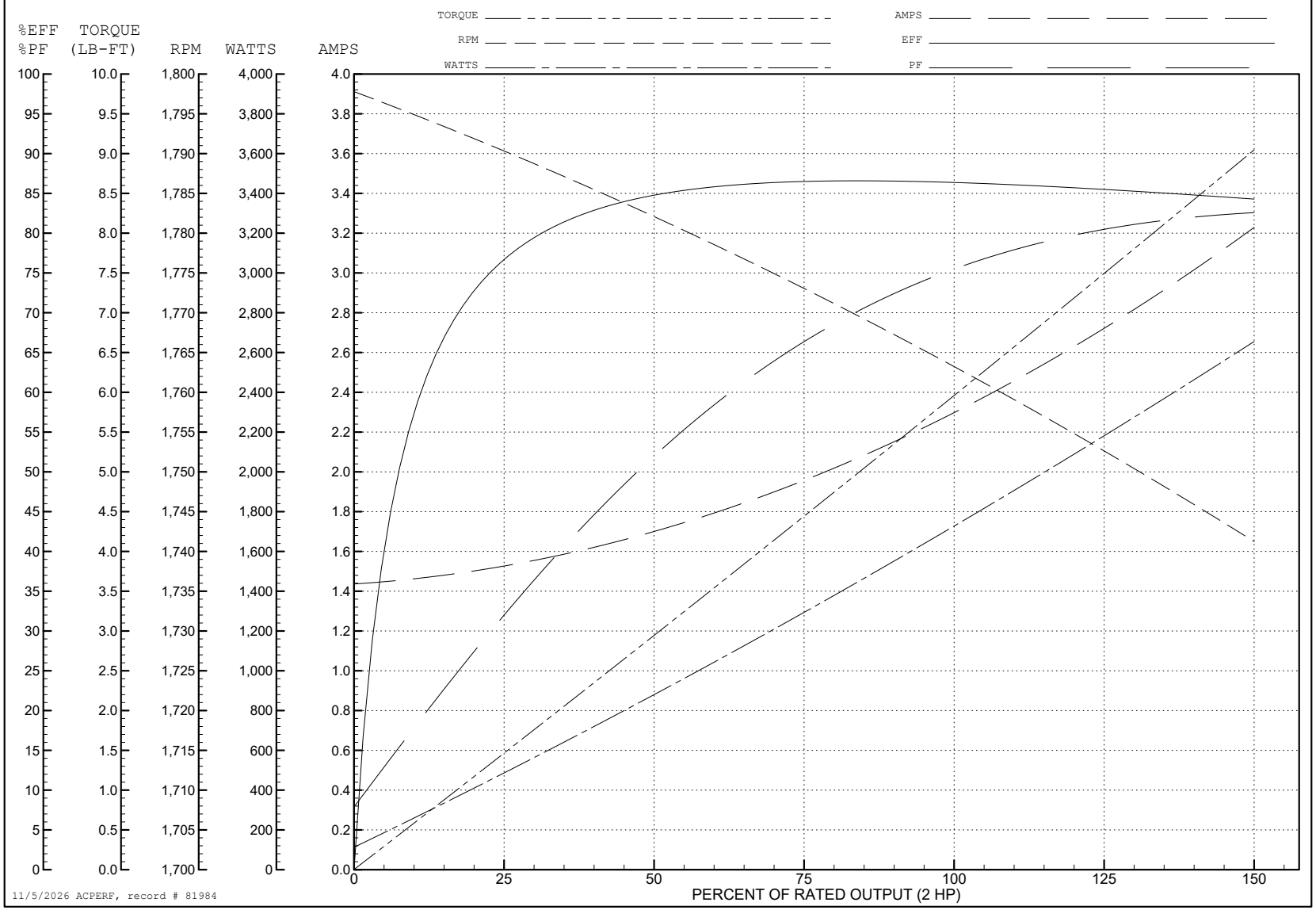
ABB Motors and Mechanical Inc.

WINDING # 05WGX552

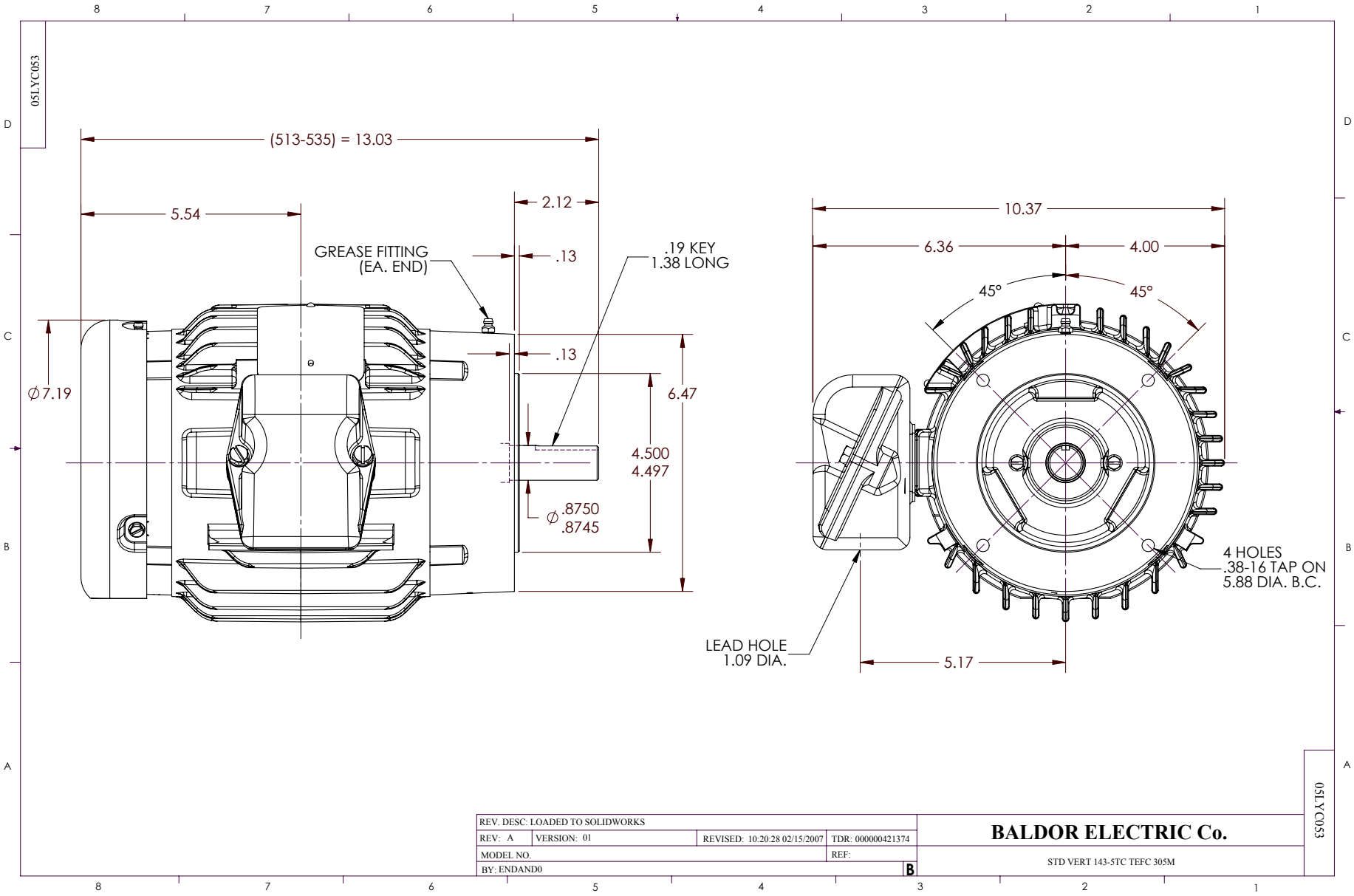
2 HP 3 PH 60 HZ 1764 RPM 575 V 0526M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=24.3 PU=11.97 LR=16.23 LRA=18.92

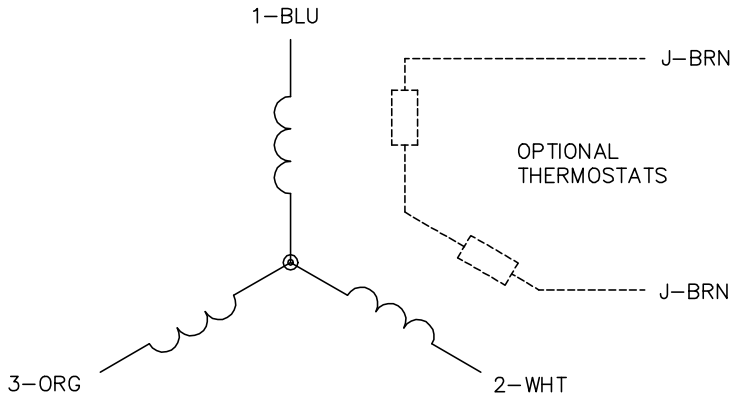


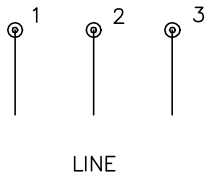
11/5/2026 ACPERF, record # 81984


05LYC053
(513-535) = 13.03
5.54
2.12
.13
GREASE FITTING
(EA. END)
.19 KEY
1.38 LONG
.13
Ø7.19
6.47
4.500
4.497
Ø.8750
.8745
10.37
6.36
4.00
45°
45°
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
1.09 DIA.
5.17
REV. DESC: LOADED TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 10:20:28 02/15/2007
TDR: 000000421374
MODEL NO.
REF:
BY: ENDAND0
B
BALDOR ELECTRIC Co.
STD VERT 143-5TC TEFC 305M
05LYC053

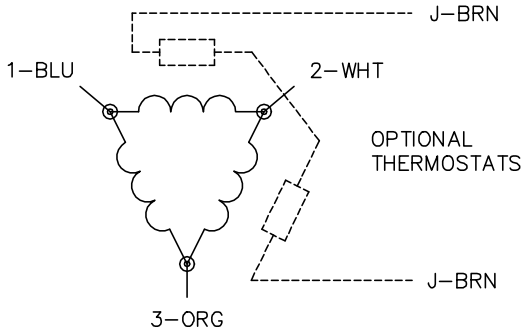
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1