

ABB BALDOR RELIANCE III

Customer information packet

VESSWDM3554T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3524M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV 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
Current @ Voltage	1.700 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	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	B
Type	AC
Mech. spec.	35VV821
Base	
Status	PRD/A
Elec. spec.	35WGG122
Layout	35LYVV821
Eff. date	12-08-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.41 IN
Power Factor	77
Product Family	Wash Down All Stainless Steel
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
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

NP1953A05											
CAT.NO.	VESSWDM3554T-5										
SPEC.	35VV821G122										
HP	1.5										
VOLTS	575										
AMP	1.7										
RPM	1770										
FRAME	145TC			HZ	60				PH	3	
SER.F.	1.15		CODE	M	DES	B		CLASS		F	
NEMA-NOM-EFF	86.5			PF	74						
RATING	40C AMB-CONT										
CC				USABLE AT 208V						N/A	
DE	6205			ODE							
ENCL	TEFC		SN								
	SFA 1.9										

AC Induction Motor Performance Data

Record # 31562

Typical performance - not guaranteed values

Winding: 35WGM811-R001			Type: 3528M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1.5		Full Load Torque		4.46 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		1.7		Breakdown Torque		18.7 LB-FT	
R.P.M.		1760		Pull-up Torque		12.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		13.3 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		14.9 A
Service Factor (S.F.)		1.15		No-load Current		1.02 A	
NEMA Nom. Eff.		87.5	Power Factor	74	Line-line Res. @ 25°C		15.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		65°C	
				Locked-rotor Power Factor		48	
				Rotor inertia		0.165 LB-FT2	

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	66	74	80	83	78
Efficiency	77.6	85.9	87.6	87.7	87.3	86	87.5
Speed	1791	1781	1770	1759	1746	1733	1751
Line amperes	1.08	1.23	1.44	1.72	2.01	2.35	1.89

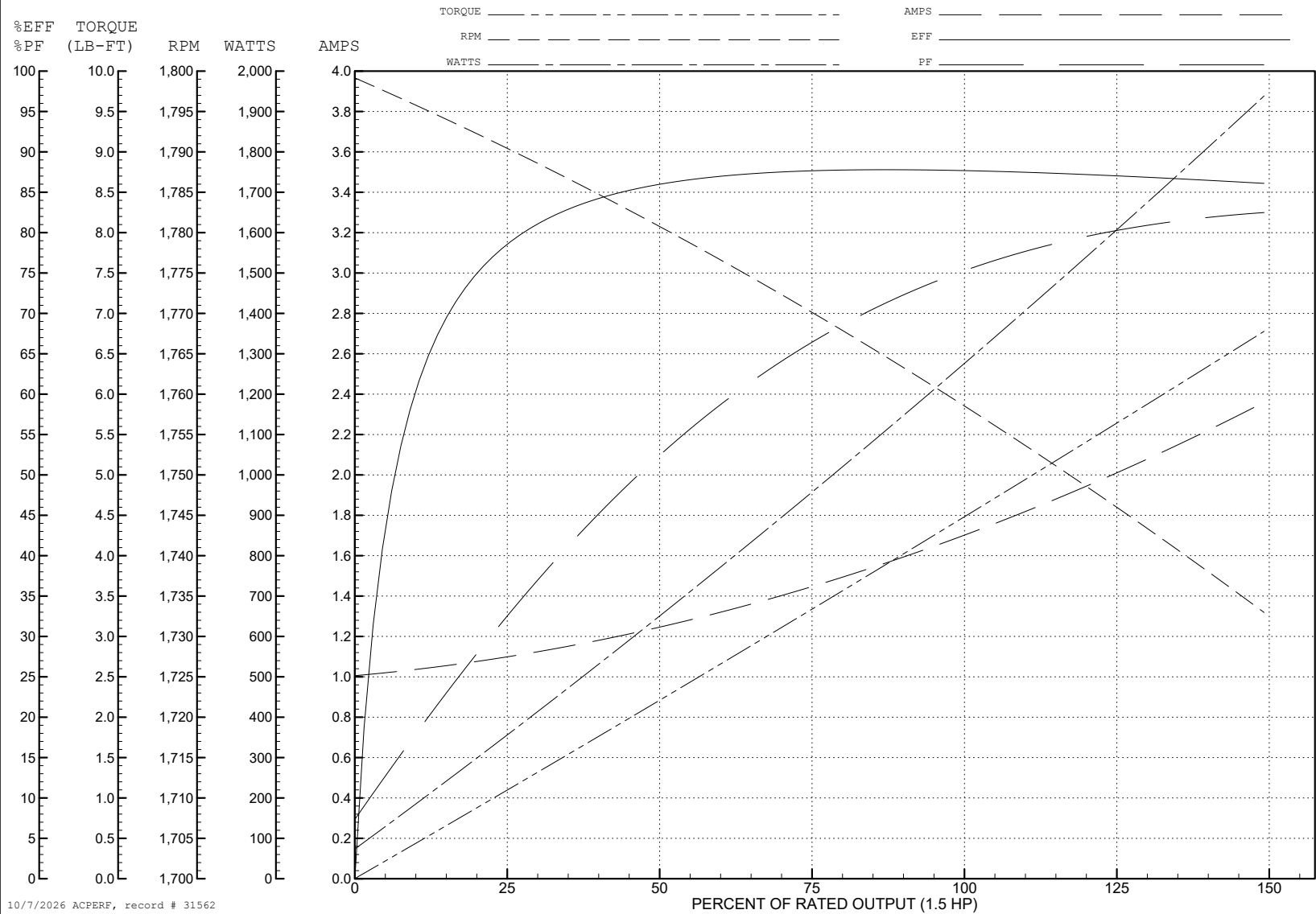
ABB Motors and Mechanical Inc.

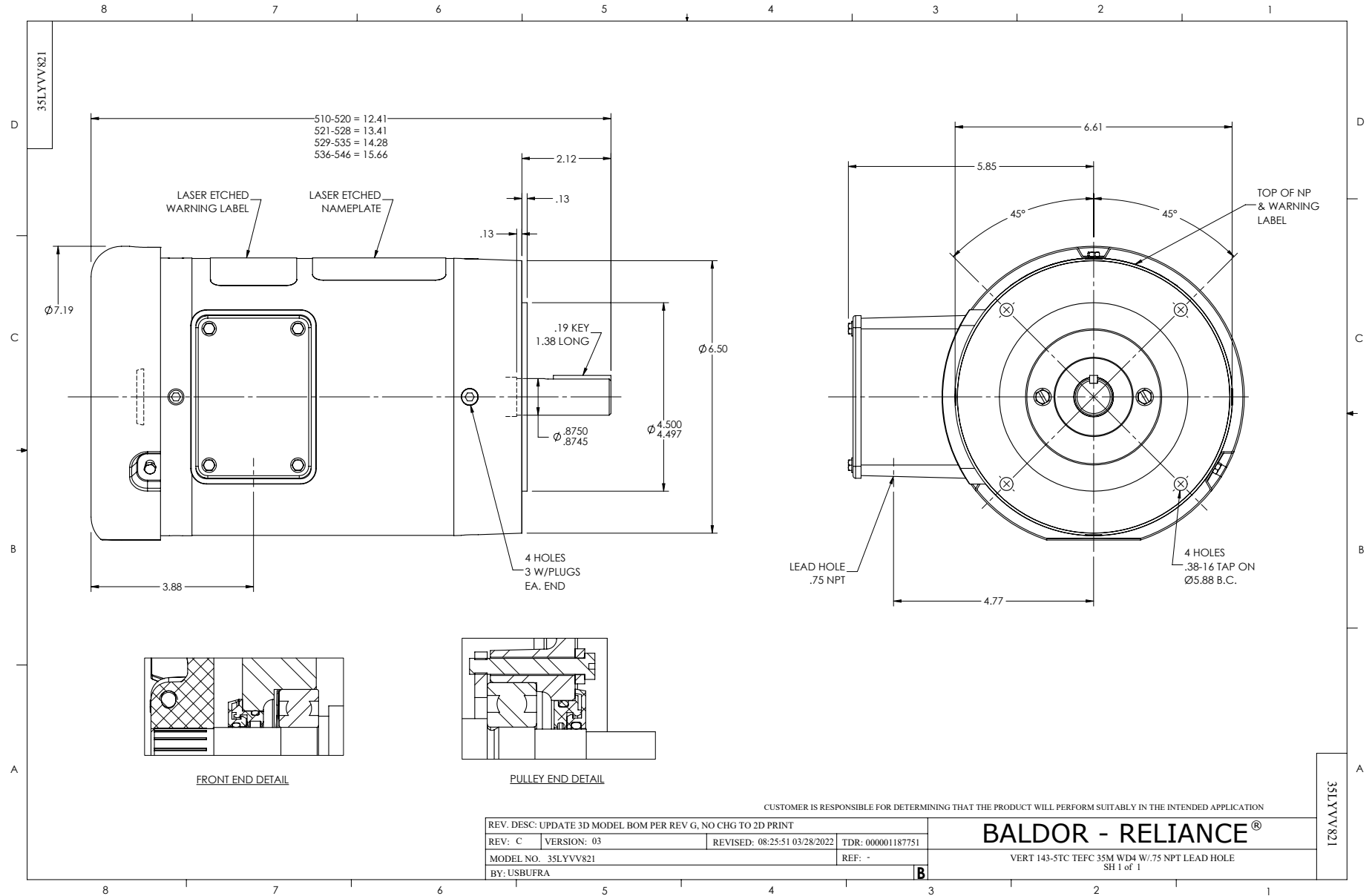
WINDING # 35WGM811

Typical performance - not guaranteed values.

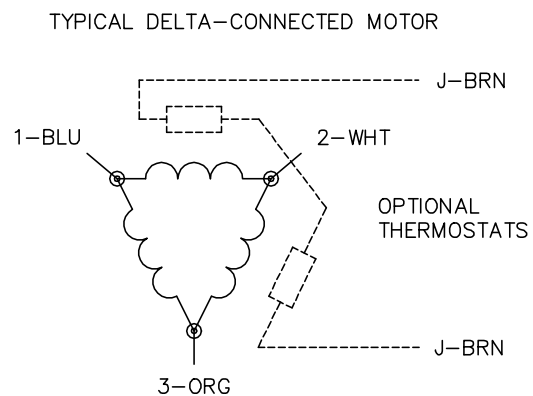
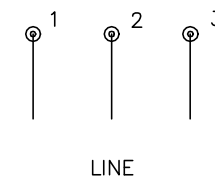
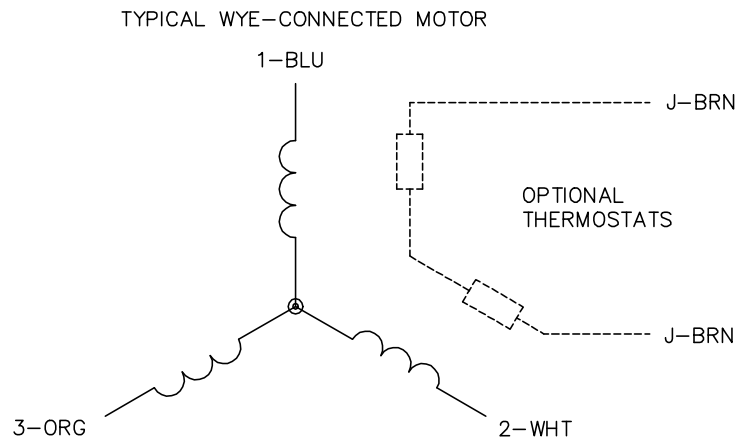
1.5 HP 3 PH 60 HZ 1760 RPM 575 V 3528M

TORQUES (LB-FT): PO=18.7 PU=12.3 LR=13.3 LRA=14.9





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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