ABB BALDOR RELIANCE

Customer information packet

VESSWDM3558T-5

2HP, 1765RPM, 3PH, 60HZ, 145TC, 3528M, TEFC, F1
Class - None
Division - Not Applicable

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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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	H

Part Detail

Revision	A
Type	AC
Mech. spec.	35VV821
Base	
Status	PRD/A
Elec. spec.	35WGZ823
Layout	35LYVV821
Eff. date	08-14-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
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	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.41 IN
Power Factor	81
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	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

NP1953A05								
CAT.NO.	VESSWDM3558T-5							
SPEC.	35VV821Z823							
HP	2							
VOLTS	575							
AMP	2.15							
RPM	1765							
FRAME	145TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	H	
NEMA-NOM-EFF	86.5	**PF**	81					
RATING	40C AMB-CONT							
CC	010A	**USABLE AT 208V**				N/A		
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						
	SFA 2.45							

AC Induction Motor Performance Data
Record # 35976
Typical performance - not guaranteed values

Winding: 35WGP956-R008	**Type:** 3538M	**Enclosure:** TEAO

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2 AIR OVER	**Full Load Torque**	5.99 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.2	**Breakdown Torque**	25.2 LB-FT
R.P.M.			1755	**Pull-up Torque**	14.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	19.3 A
Service Factor (S.F.)			1	**No-load Current**	1.24 A
NEMA Nom. Eff.	88.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	10.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
				Locked-rotor Power Factor	45.9
				Rotor inertia	0.225 LB-FT2

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	55	69	77	82	84
Efficiency	80.6	87.1	88.6	88.7	88.1	87.1
Speed	1791	1783	1773	1762	1751	1740
Line amperes	1.33	1.54	1.85	2.21	2.61	3.05

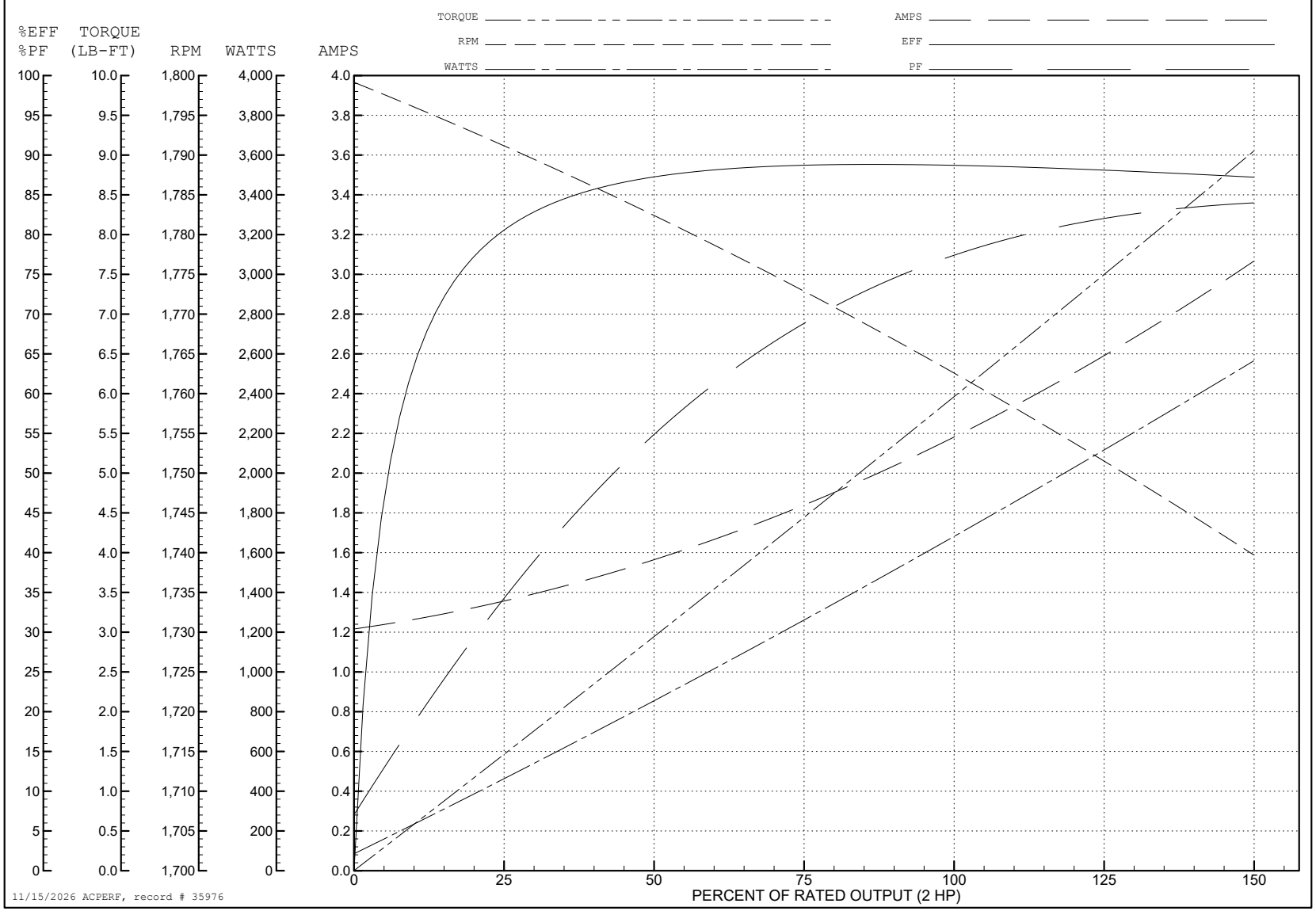
ABB Motors and Mechanical Inc.

WINDING # 35WGP956

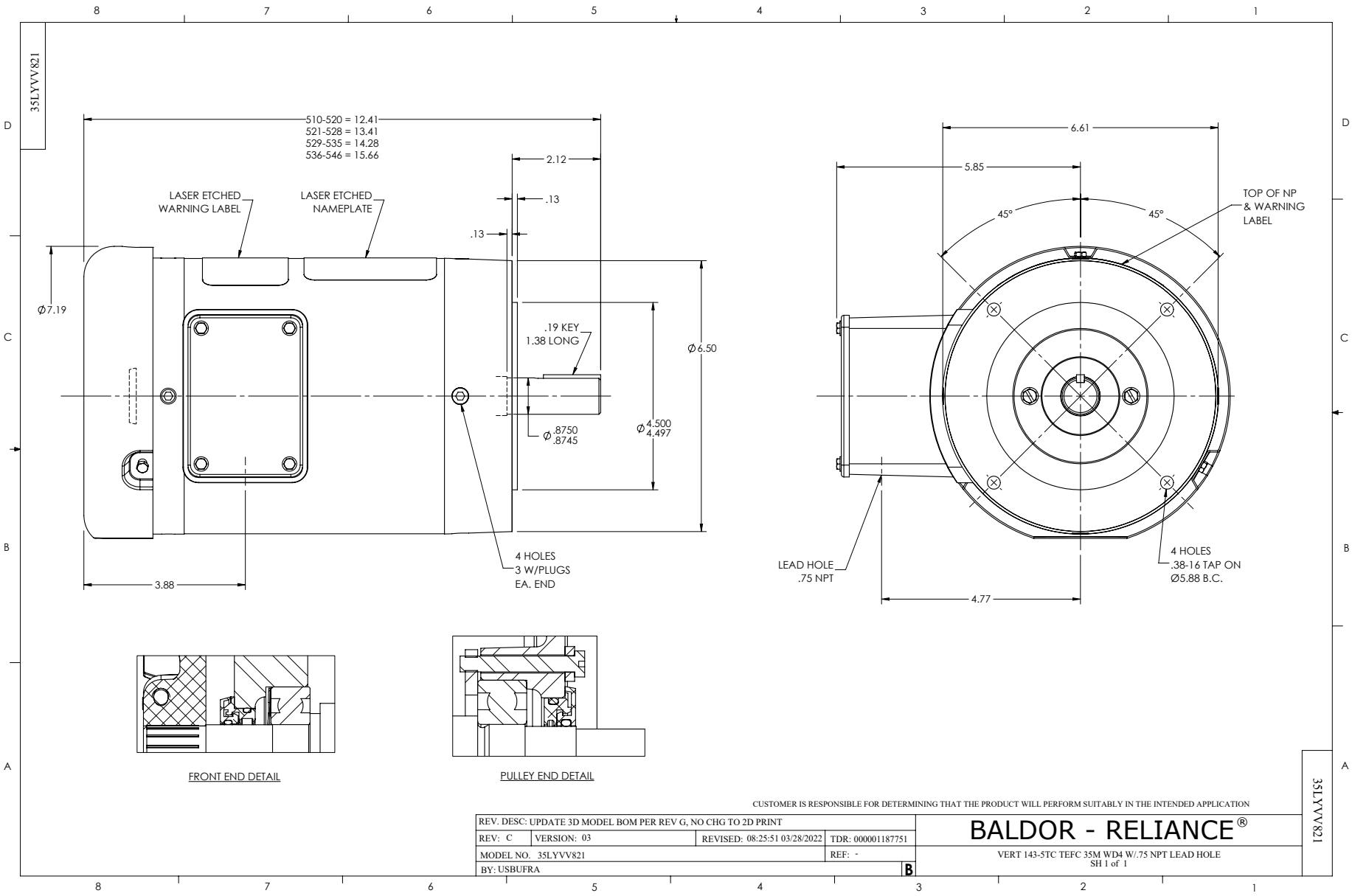
2 HP 3 PH 60 HZ 1755 RPM 575 V 3538M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=25.2 PU=14.9 LR=17.9 LRA=19.3

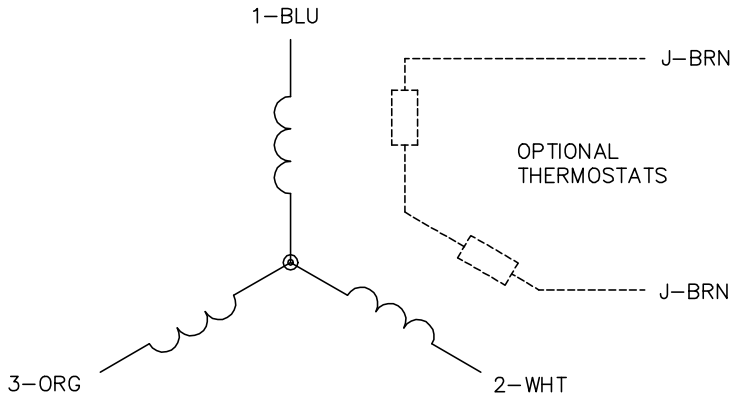


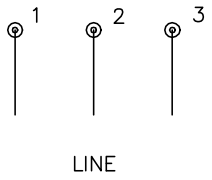
11/15/2026 ACPERF, record # 35976


35LYVV821
510-520 = 12.41
521-528 = 13.41
529-535 = 14.28
536-546 = 15.66
2.12
.13
.13
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
Ø7.19
.19 KEY
1.38 LONG
Ø6.50
Ø .8750
.8745
Ø 4.500
4.497
4 HOLES
3 W/PLUGS
EA. END
3.88
6.61
5.85
45°
45°
TOP OF NP
& WARNING
LABEL
LEAD HOLE
.75 NPT
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
4.77
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV G, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 08:25:51 03/28/2022
TDR: 000001187751
MODEL NO. 35LYVV821
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
VERT 143-5TC TEFC 35M WD4 W/.75 NPT LEAD HOLE
SH 1 of 1
35LYVV821

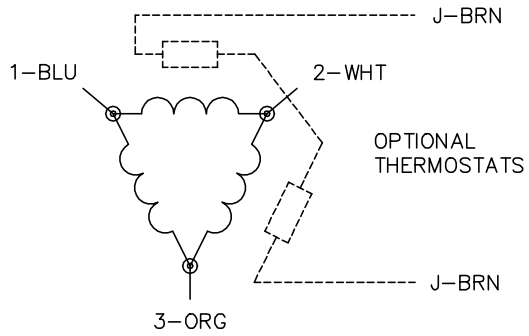
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1