ABB BALDOR RELIANCE

Customer information packet

VESWDM3558T

2HP, 1765RPM, 3PH, 60HZ, 145TC, 3530M, TEFC, N
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/5/2026 4:18:25 PM

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	230.0 V @ 60 HZ
	460.0 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	5.600 A @ 230.0 V
	2.800 A @ 460.0 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	2.8 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35SS623
Base	
Status	PRD/A
Elec. spec.	35WGZ806
Layout	35LYSS623
Eff. date	10-15-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-22-2024

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.17 IN
Power Factor	77
Product Family	Wash Down Paint Free
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	Shaft 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

	NP1669L							
CAT.NO.	VESWDM3558T							
SPEC.	35SS623Z806G1							
HP	2							
VOLTS	230/460							
AMP	5.6/2.8							
RPM	1765							
FRAME	145TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	86.5	**PF**	77					
RATING	40C AMB-CONT							
CC	010A							
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						
BLANK								

AC Induction Motor Performance Data
Record # 101604
Typical performance - not guaranteed values

Winding: 35WGZ806-R026	**Type:** 3530M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.95 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.6/2.8	**Breakdown Torque**	24.5 LB-FT
R.P.M.			1765	**Pull-up Torque**	14.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	25.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.65 A
NEMA Nom. Eff.	86.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	9.23 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.217 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	56	69	77	81	85	79
Efficiency	77.8	85.2	87	86.8	85.8	84.2	86.2
Speed	1792	1785	1777	1768	1760	1749	1763
Line amperes	1.74	1.99	2.35	2.81	3.37	3.92	3.15

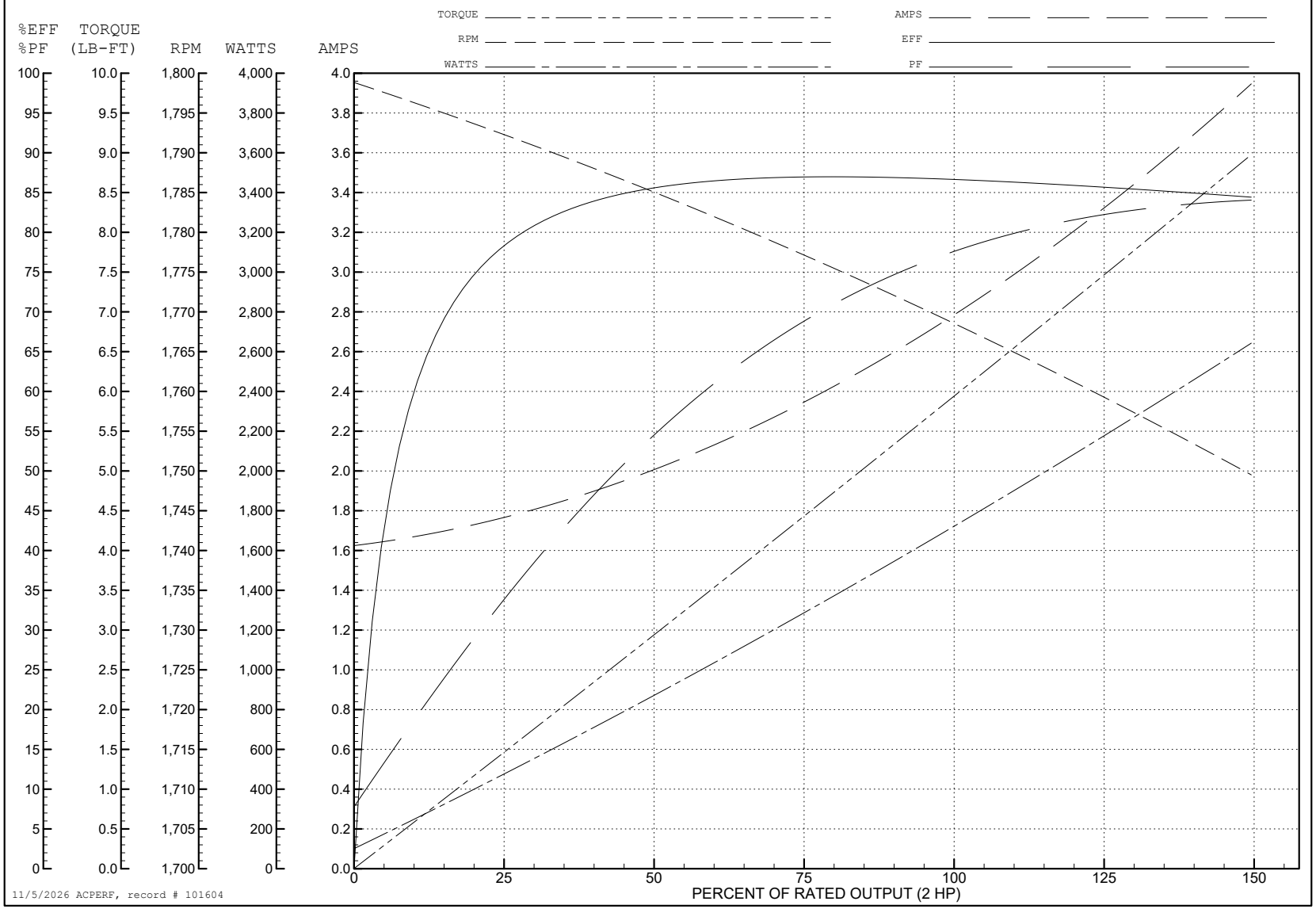
ABB Motors and Mechanical Inc.

WINDING # 35WGZ806

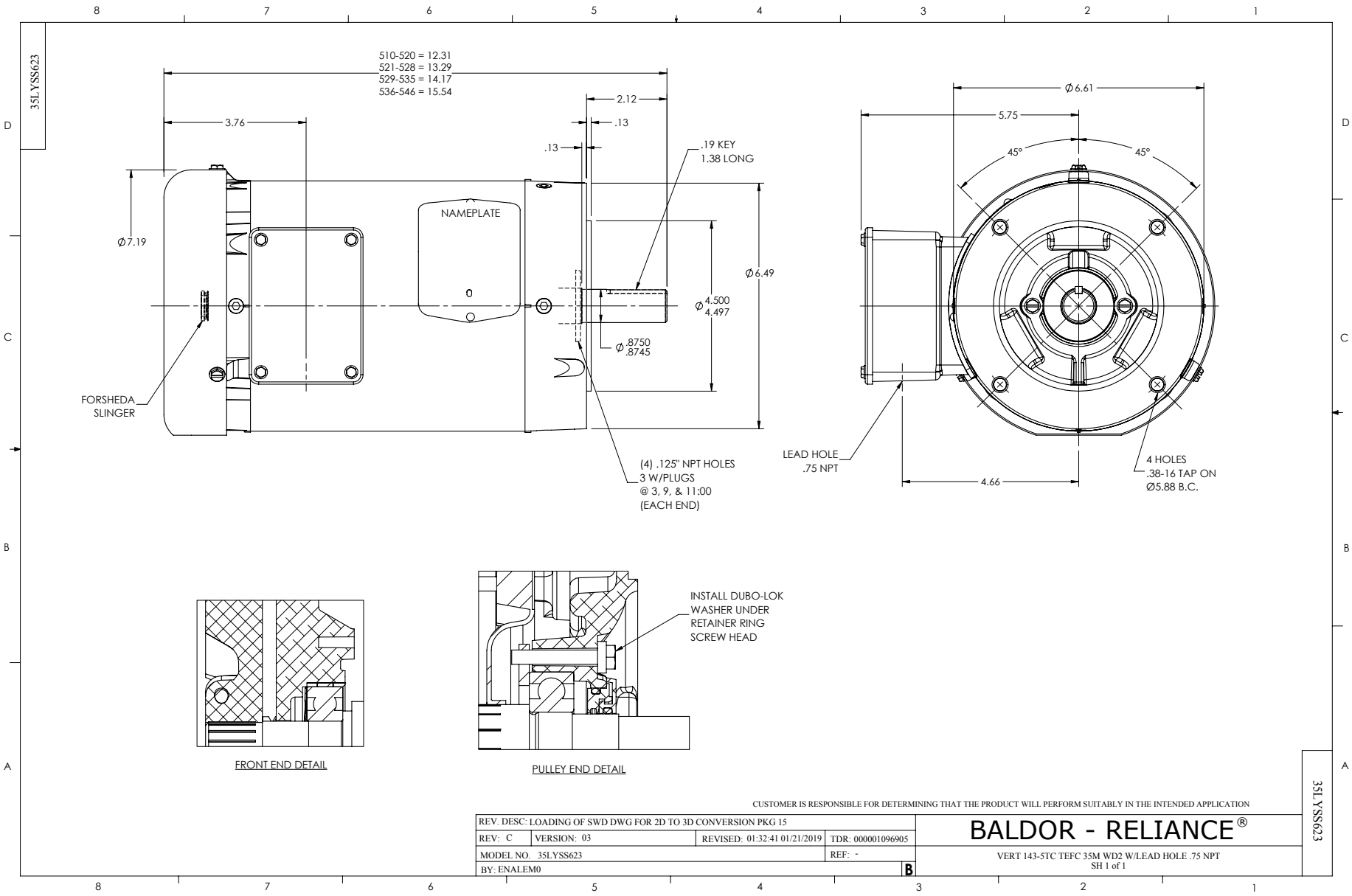
2 HP 3 PH 60 HZ 1765 RPM 460 V 3530M

Typical performance - not guaranteed values.

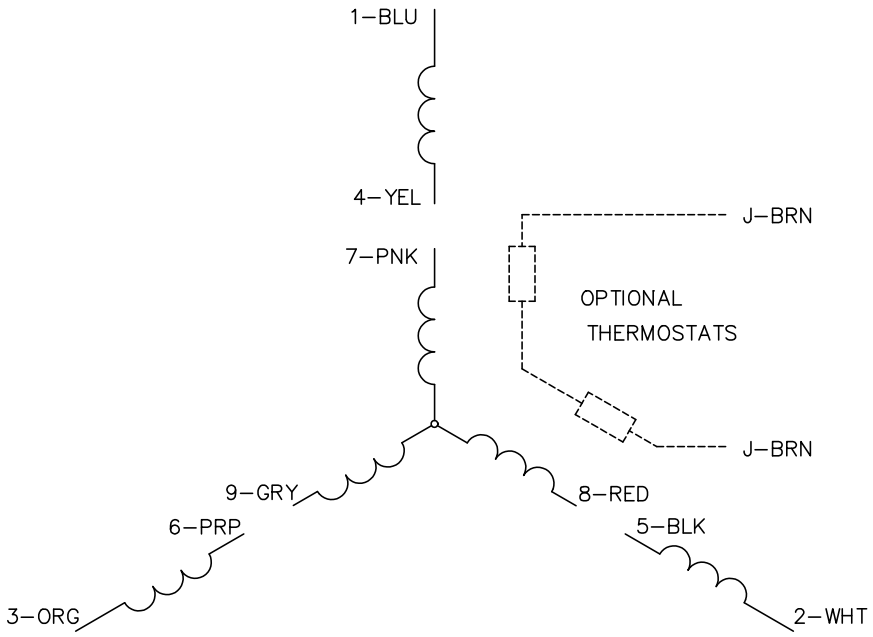
TORQUES(LB-FT): PO=24.5 PU=14.6 LR=17.7 LRA=25.1

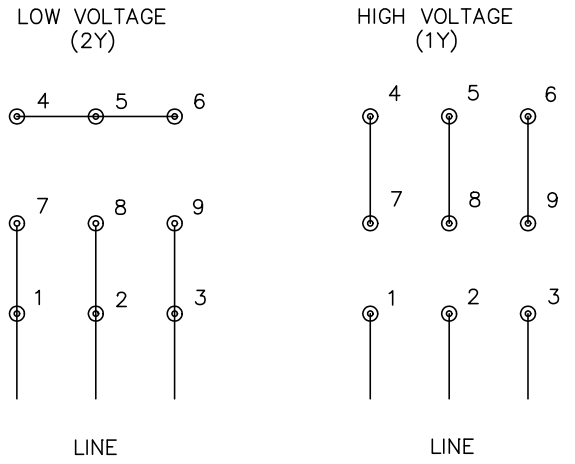


11/5/2026 ACPERF, record # 101604


35LYSS623
510-520 = 12.31
521-528 = 13.29
529-535 = 14.17
536-546 = 15.54
2.12
3.76
.13
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø6.49
Ø 4.500
4.497
Ø .8750
.8745
FORSHEDA
SLINGER
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(EACH END)
Ø6.61
5.75
45°
45°
LEAD HOLE
.75 NPT
4.66
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
INSTALL DUBO-LOK
WASHER UNDER
RETAINER RING
SCREW HEAD
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION PKG 15
REV: C
VERSION: 03
REVISED: 01:32:41 01/21/2019
TDR: 000001096905
MODEL NO. 35LYSS623
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 143-5TC TEFC 35M WD2 W/LEAD HOLE .75 NPT
SH 1 of 1
35LYSS623

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS