ABB BALDOR RELIANCE

Customer information packet

VESWDM3546-5

1HP, 1770RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1, N

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11/15/2026 12:16:12 PM

Part Detail

Revision	D
Type	AC
Mech. spec.	35S617
Base	
Status	PRD/A
Elec. spec.	35WGG198
Layout	35LYS617
Eff. date	06-05-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Nameplate

NP1669L											
CAT.NO.	VESWDM3546-5										
SPEC.	35S617G198G1										
HP	1										
VOLTS	575										
AMP	1.3										
RPM	1770										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	85.5	**PF**	67								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
BLANK	SFA 1.4										

AC Induction Motor Performance Data
Record # 82151
Typical performance - not guaranteed values

Winding: 35WGG198-R001	**Type:** 3522M	**Enclosure:** TEFC

Nameplate Data				**575 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			1.3	**Breakdown Torque**	16.37 LB-FT
R.P.M.			1770	**Pull-up Torque**	7.31 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10.16 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	12.72 A
Service Factor (S.F.)			1.15	**No-load Current**	0.972 A
NEMA Nom. Eff.	85.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	22.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps			1.4	**Temp. Rise @ S.F. Load**	71°C
				Locked-rotor Power Factor	59.6
				Rotor inertia	0.159 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	44	56	67	73	78	71
Efficiency	71.2	81.2	84.4	86	85.7	85.1	85.8
Speed	1793	1786	1781	1773	1766	1757	1769
Line amperes	0.988	1.06	1.18	1.32	1.49	1.69	1.42

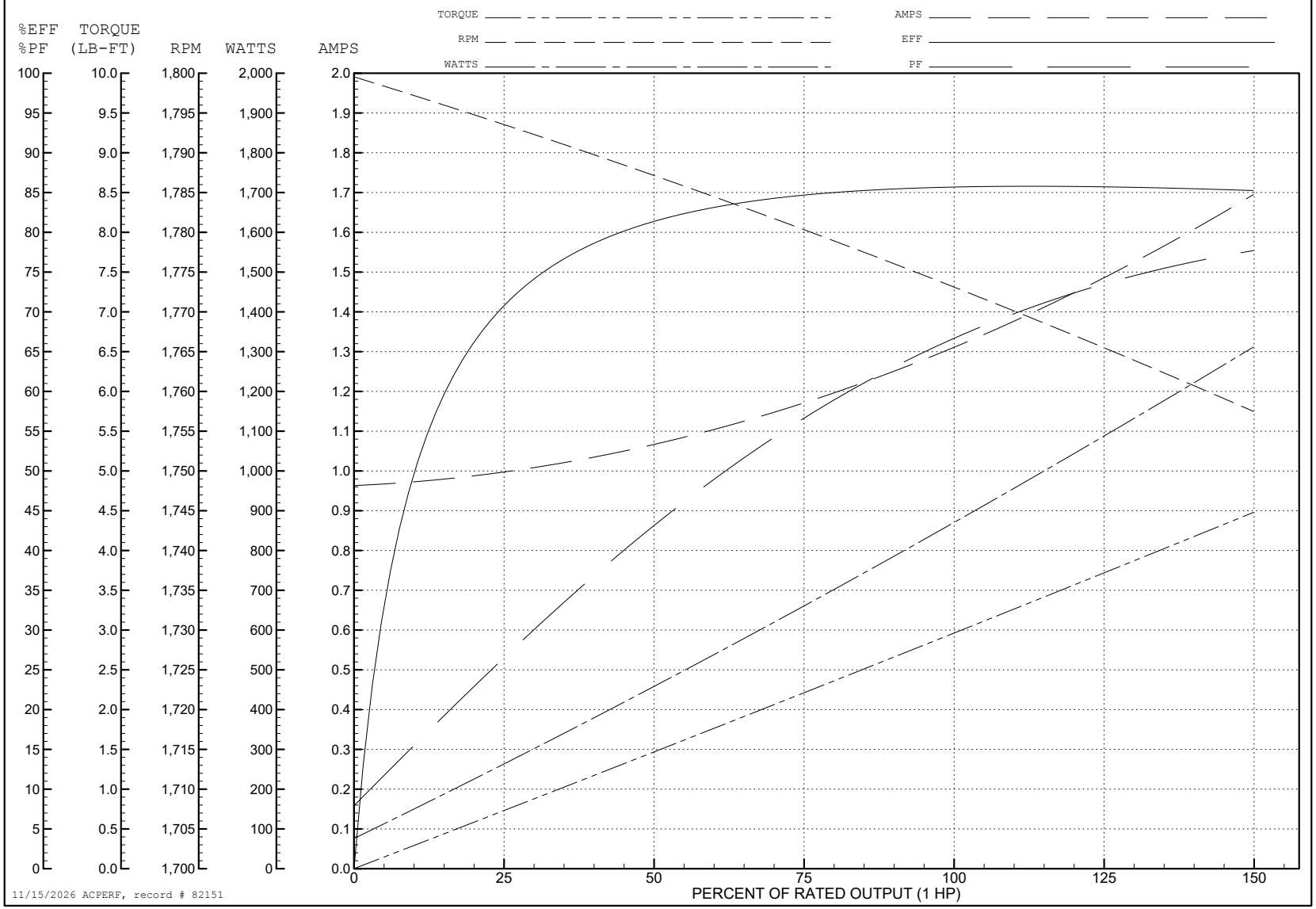
ABB Motors and Mechanical Inc.

WINDING # 35WGG198

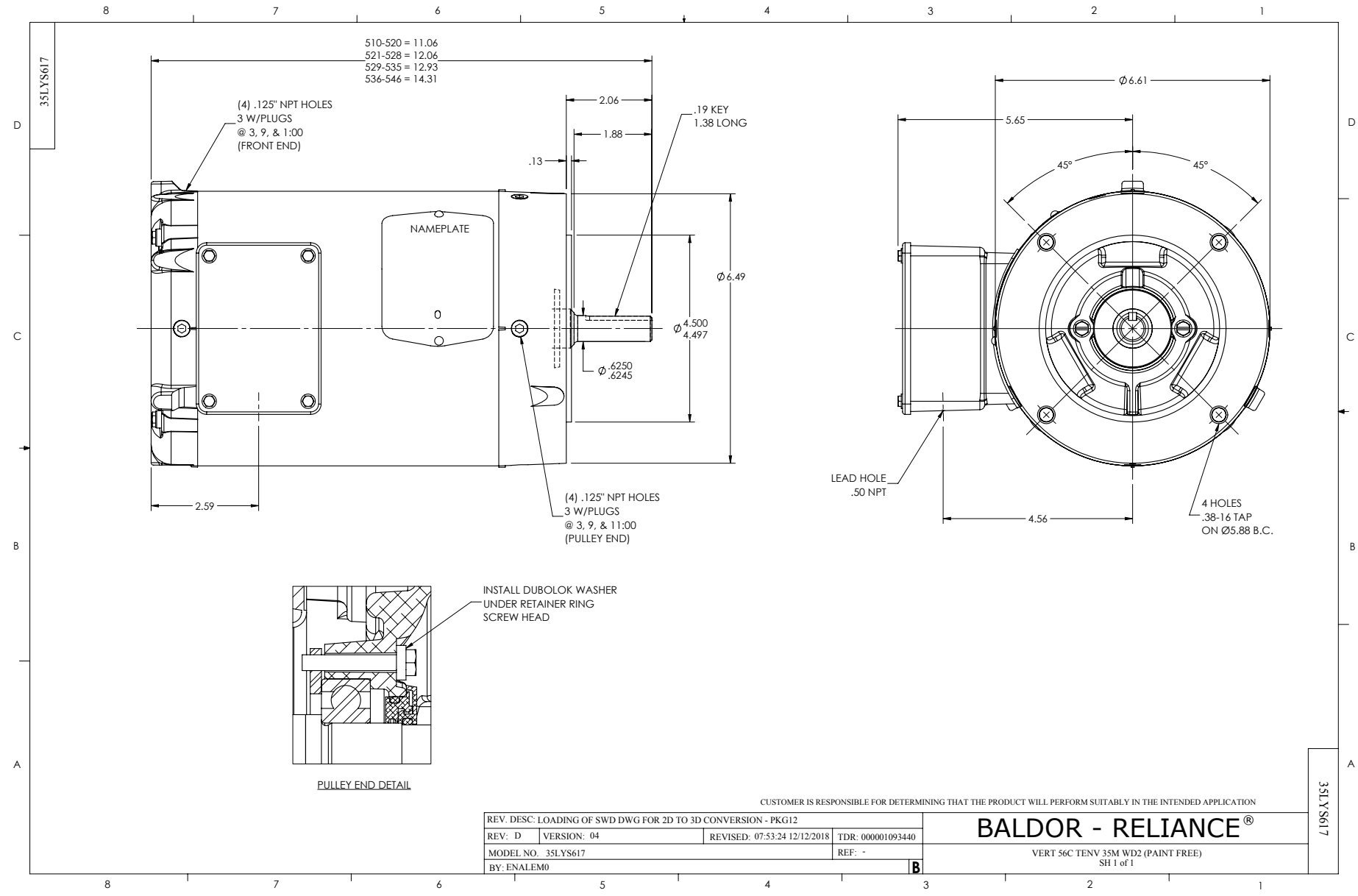
1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=16.37 PU=7.31 LR=10.16 LRA=12.72

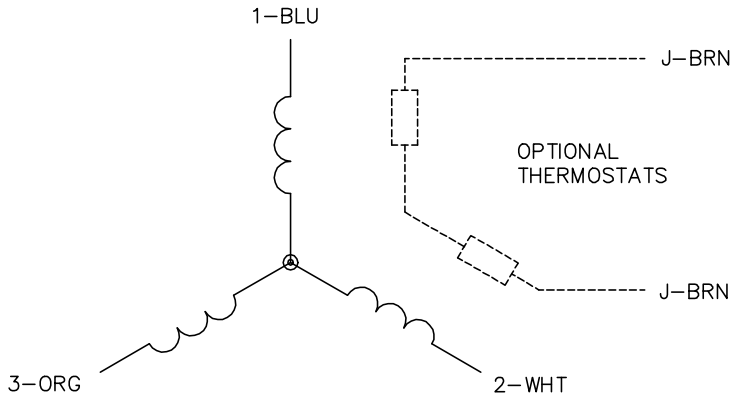


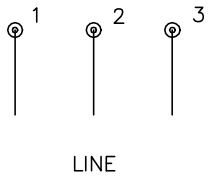
11/15/2026 ACPERF, record # 82151


35LYS617
510-520 = 11.06
521-528 = 12.06
529-535 = 12.93
536-546 = 14.31
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(FRONT END)
2.06
1.88
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø6.49
Ø 4.500
4.497
Ø .6250
.6245
2.59
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
Ø6.61
5.65
45°
45°
LEAD HOLE
.50 NPT
4.56
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
INSTALL DUBOLOK WASHER
UNDER RETAINER RING
SCREW HEAD
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 - PKG12
REV: D
VERSION: 04
REVISED: 07:53:24 12/2/2018
TDR: 000001093440
MODEL NO. 35LYS617
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 56C TENV 35M WD2 (PAINT FREE)
SH 1 of 1
35LYS617

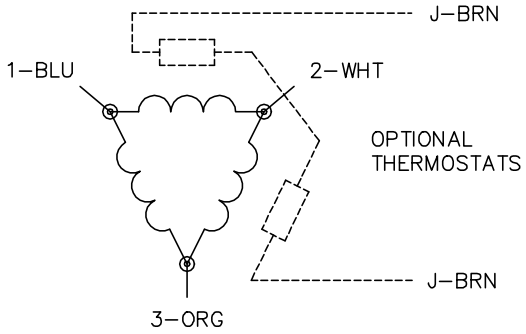
CD0006

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