

ABB BALDOR RELIANCE III

Customer information packet

VESWDM3546-5

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

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. @ 25°C	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

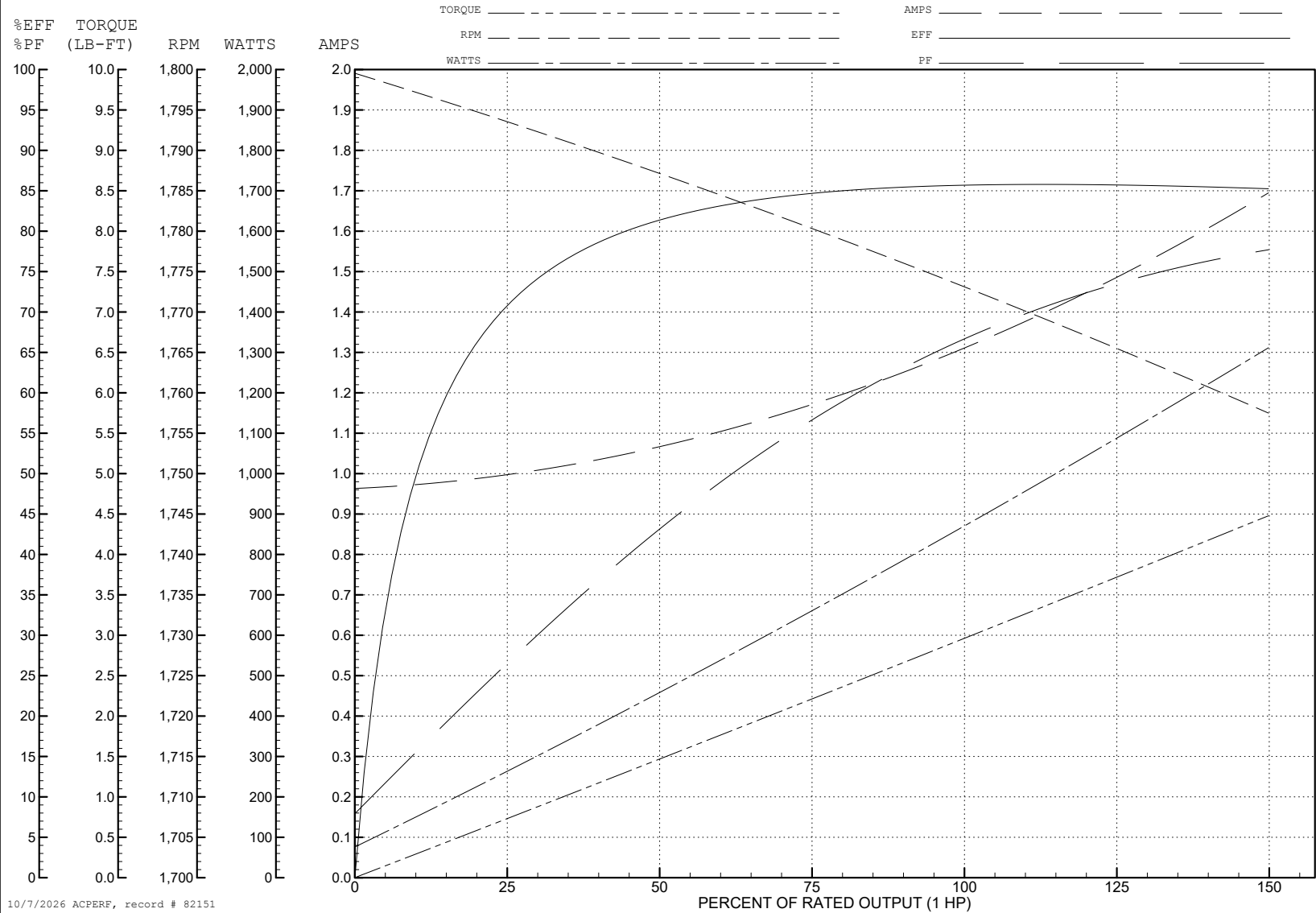
ABB Motors and Mechanical Inc.

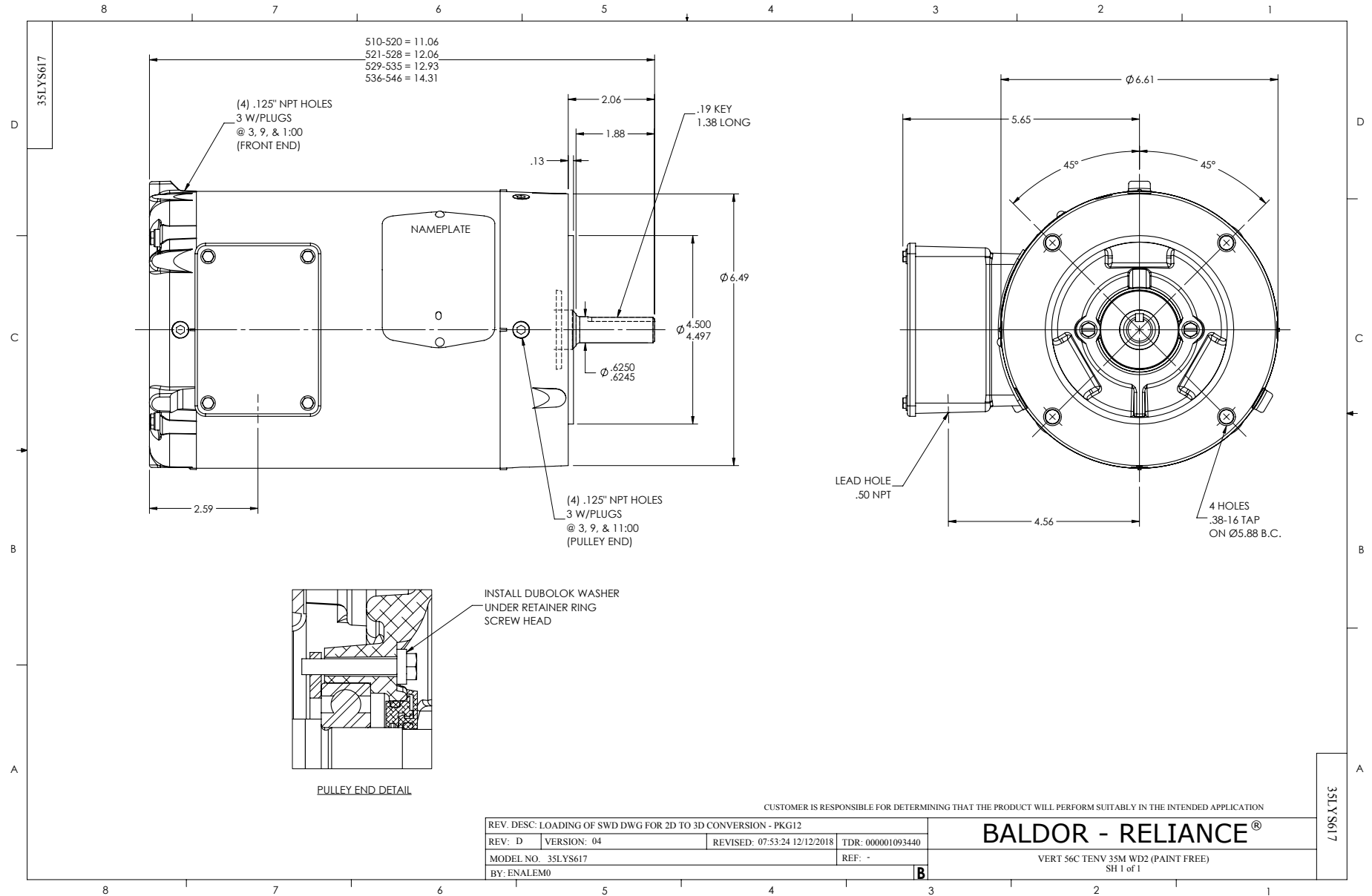
WINDING # 35WGG198

Typical performance - not guaranteed values.

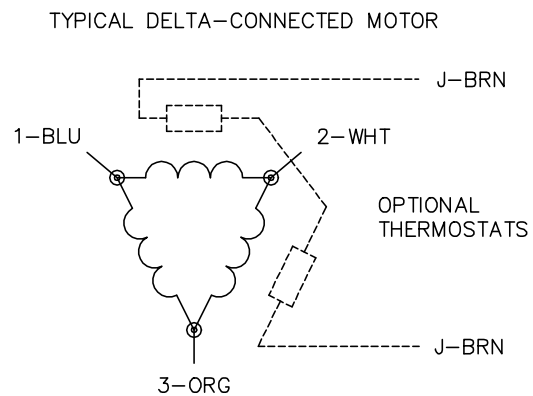
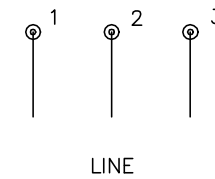
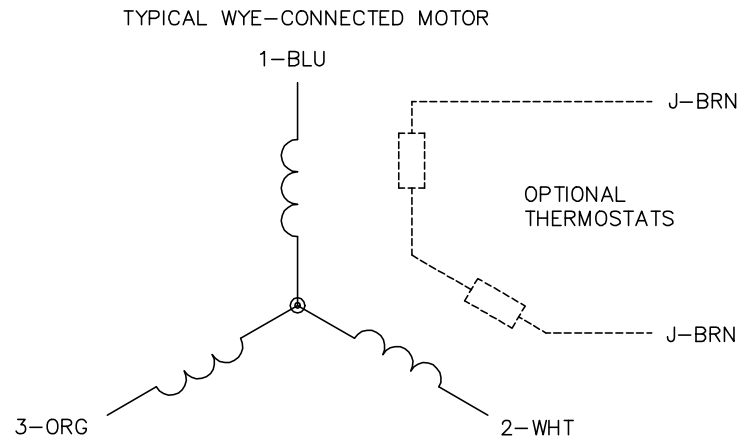
1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M

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





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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