ABB BALDOR RELIANCE

Customer information packet

IDVSNM3546-5

1HP, 1770RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N

Part Detail

Revision	C
Type	AC
Mech. spec.	35T995
Base	
Status	PRD/A
Elec. spec.	35WGG198
Layout	35LYT995
Eff. date	09-30-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.84 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4615L							
CAT NO	IDVSNM3546-5						
SPEC.	35T995G198G1				**ENCL**	TENV	
FRAME	56C	**HP**	1 TE				
VOLTS	575						
MAG CUR	0.97	**FLA**	1.3				
RPM	1775	**RPM MAX**	2700				
HZ	60	**PH**	3	**CLASS**	F		
SER.F.	1.00	**SL HZ**	0.9				
NEMA-NOM-EFF	85.5	**WK2**	0.159				
RATING	40C AMB-CONT						
DE BRG	6205	**ODE BRG**	6203				
CC	010A	**SN**					
	1.5:1 CHP PWM						
	1000:1 CT/VT						

AC Induction Motor Performance Data
Record # 82152
Typical performance - not guaranteed values

Winding: 35WGG198-R002	**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	**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**	
				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**
Power Factor	28	44	56	67	73	78
Efficiency	71.2	81.2	84.4	86	85.7	85.1
Speed	1793	1786	1781	1773	1766	1757
Line amperes	0.988	1.06	1.18	1.32	1.49	1.69

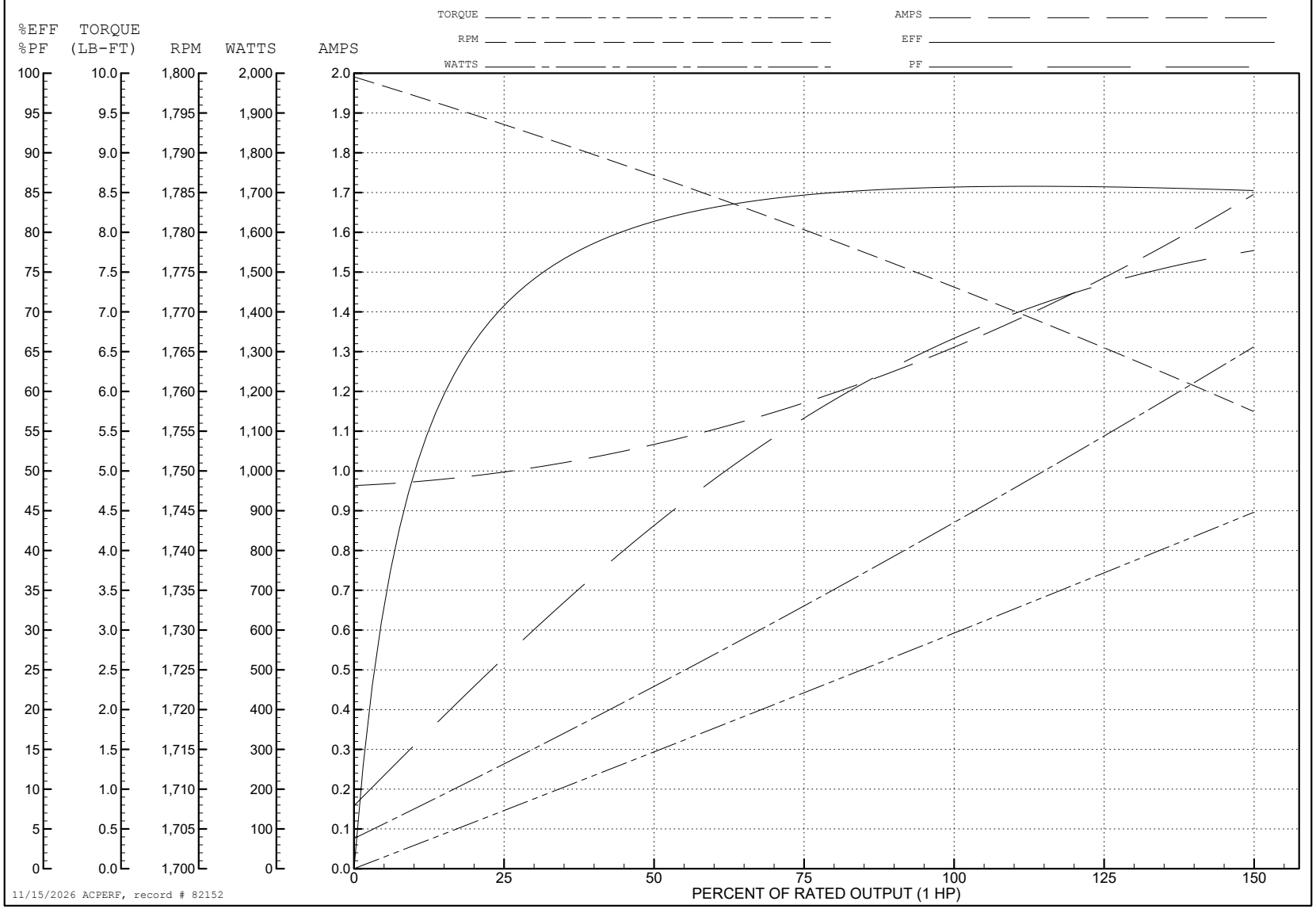
ABB Motors and Mechanical Inc.

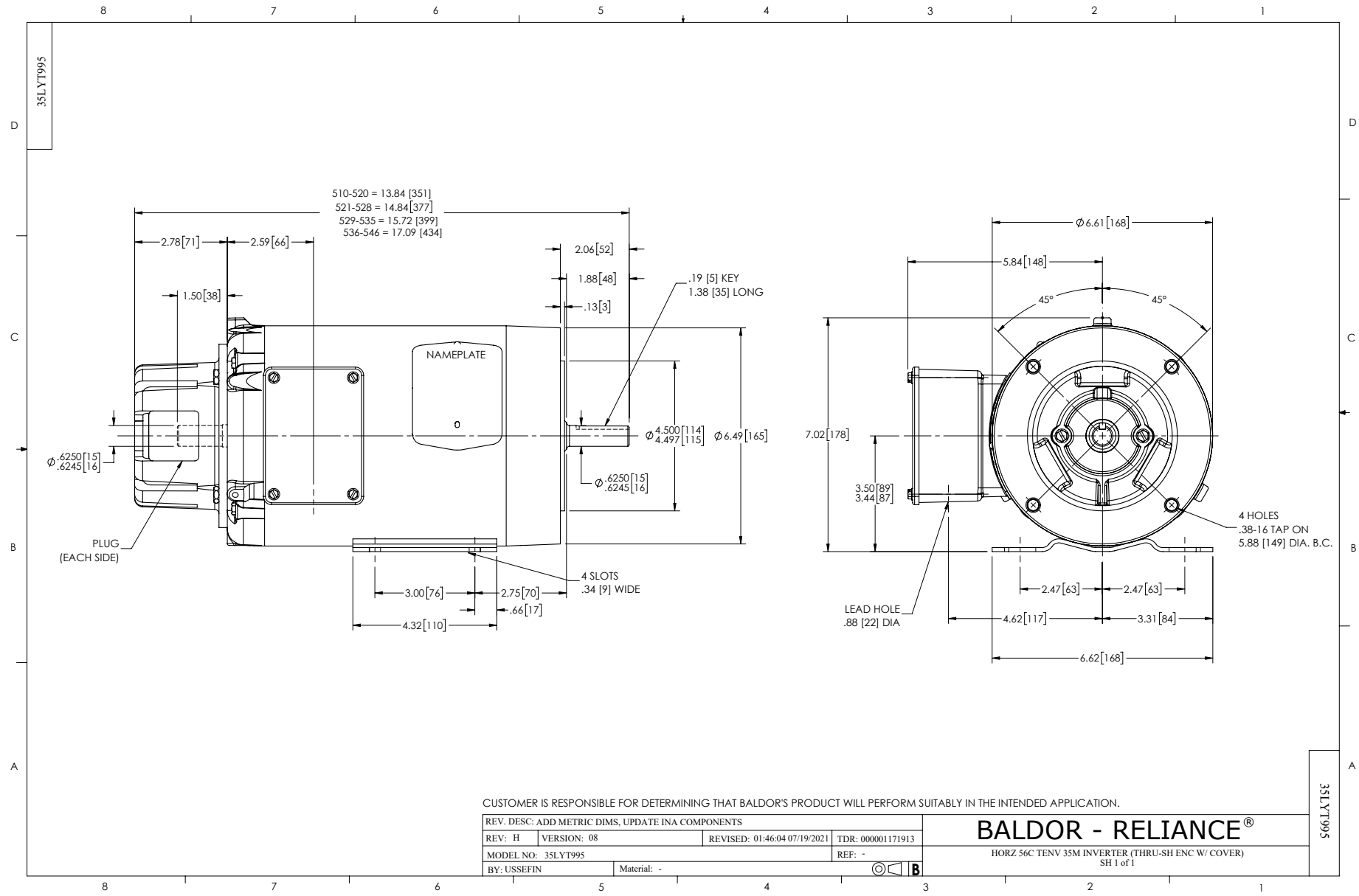
WINDING # 35WGG198

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

Typical performance - not guaranteed values.

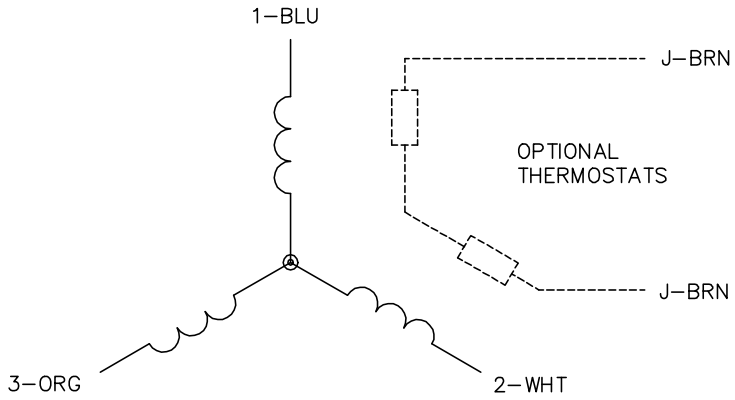
TORQUES(LB-FT): PO=16.37 PU=7.31 LR=10.16 LRA=12.72

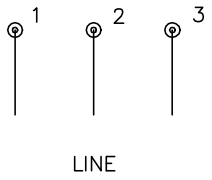



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510-520 = 13.84 [351]
521-528 = 14.84[377]
529-535 = 15.72 [399]
536-546 = 17.09 [434]
2.78[71]
2.59[66]
1.50[38]
2.06[52]
1.88[48]
.13[3]
.19 [5] KEY
1.38 [35] LONG
NAMEPLATE
Ø.6250[15]
.6245[16]
Ø4.500[114]
4.497[115]
Ø6.49[165]
PLUG
(EACH SIDE)
4 SLOTS
.34 [9] WIDE
3.00[76]
2.75[70]
.66[17]
4.32[110]
Ø6.61[168]
5.84[148]
45°
45°
7.02[178]
3.50[89]
3.44[87]
4 HOLES
.38-16 TAP ON
5.88 [149] DIA. B.C.
LEAD HOLE
.88 [22] DIA
2.47[63]
2.47[63]
4.62[117]
3.31[84]
6.62[168]
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADD METRIC DIMS, UPDATE INA COMPONENTS
REV: H
VERSION: 08
REVISED: 01:46:04 07/19/2021
TDR: 000001171913
MODEL NO: 35LYT995
REF: -
BY: USSEFIN
Material: -
B
BALDOR - RELIANCE®
HORZ 56C TENV 35M INVERTER (THRU-SH ENC W/ COVER)
SH 1 of 1
35LYT995

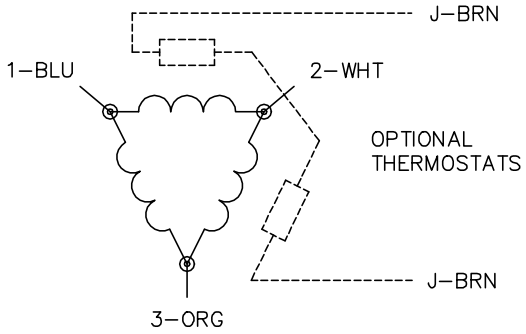
CD0006

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