ABB BALDOR RELIANCE

Customer information packet

IDNM3534

.33HP, 1780RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1
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	.330 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	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	.850 A @ 460.0 V
	1.500 A @ 208.0 V
	1.700 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a

Part Detail

Revision	E
Type	AC
Mech. spec.	35T995
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYT995
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-01-2021

Insulation Class	H
Inverter Code	Not Inverter
KVA Code	S
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.84 IN
Power Factor	49
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: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1780 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

NP1162L							
CAT NO	IDNM3534						
SPEC.	35T995G155G2						
FRAME	56C		**HP**	.33 TE			
VOLTS	230/460						
MAG CUR	1.6/.8			**FLA**	1.7/.85		
RPM	1780		**RPM MAX**	6000			
HZ	60	**PH**	3	**CLASS**	H		
SER.F.	1.00	**DES**	B	**SL HZ**	1		
NEMA-NOM-EFF	75.5	**WK2**	0.087				
BLWR V		**PH**		**HZ**		**A**	
RATING	40C AMB-CONT						
DE BRG	6205		**ODE BRG**	6203			
CC	**SN**						
	1000:1 CT/VT						

AC Induction Motor Performance Data
Record # 87453
Typical performance - not guaranteed values

Winding: 35WGG155-R026	**Type:** 3512M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			.33
Volts			230/460
Full Load Amps			1.7/.85
R.P.M.			1780
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	S
Service Factor (S.F.)			1
NEMA Nom. Eff.	75.5	**Power Factor**	49
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	0.977 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.28 LB-FT
Pull-up Torque	3.26 LB-FT
Locked-rotor Torque	4.04 LB-FT
Starting Current	6.71 A
No-load Current	0.792 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	49°C
Locked-rotor Power Factor	70.8
Rotor inertia	0.0866 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	22	31	41	49	57	63
Efficiency	47.4	63.1	70.8	75.1	77.6	79.1
Speed	1794	1789	1785	1780	1774	1769
Line amperes	0.786	0.791	0.814	0.839	0.878	0.933

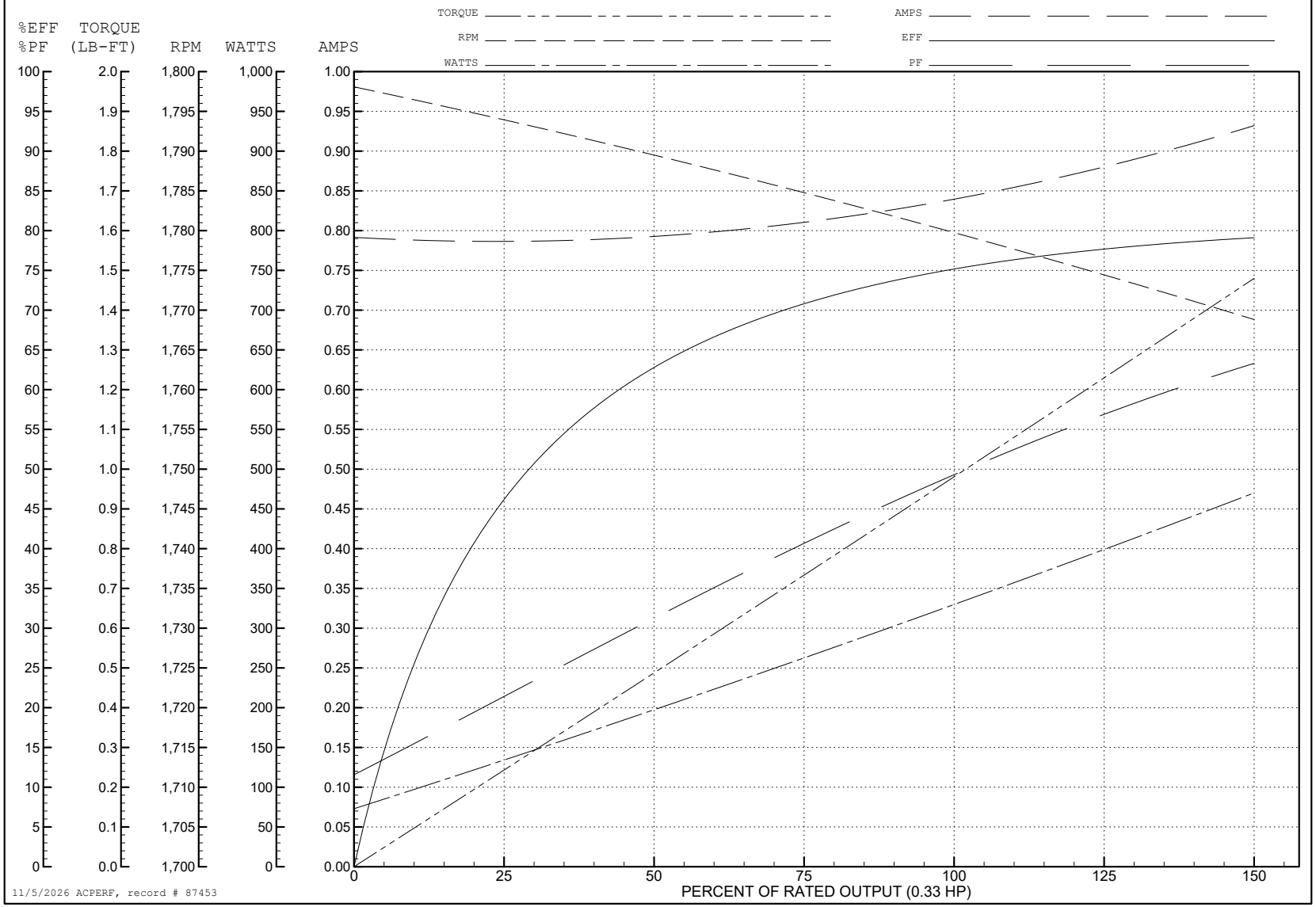
ABB Motors and Mechanical Inc.

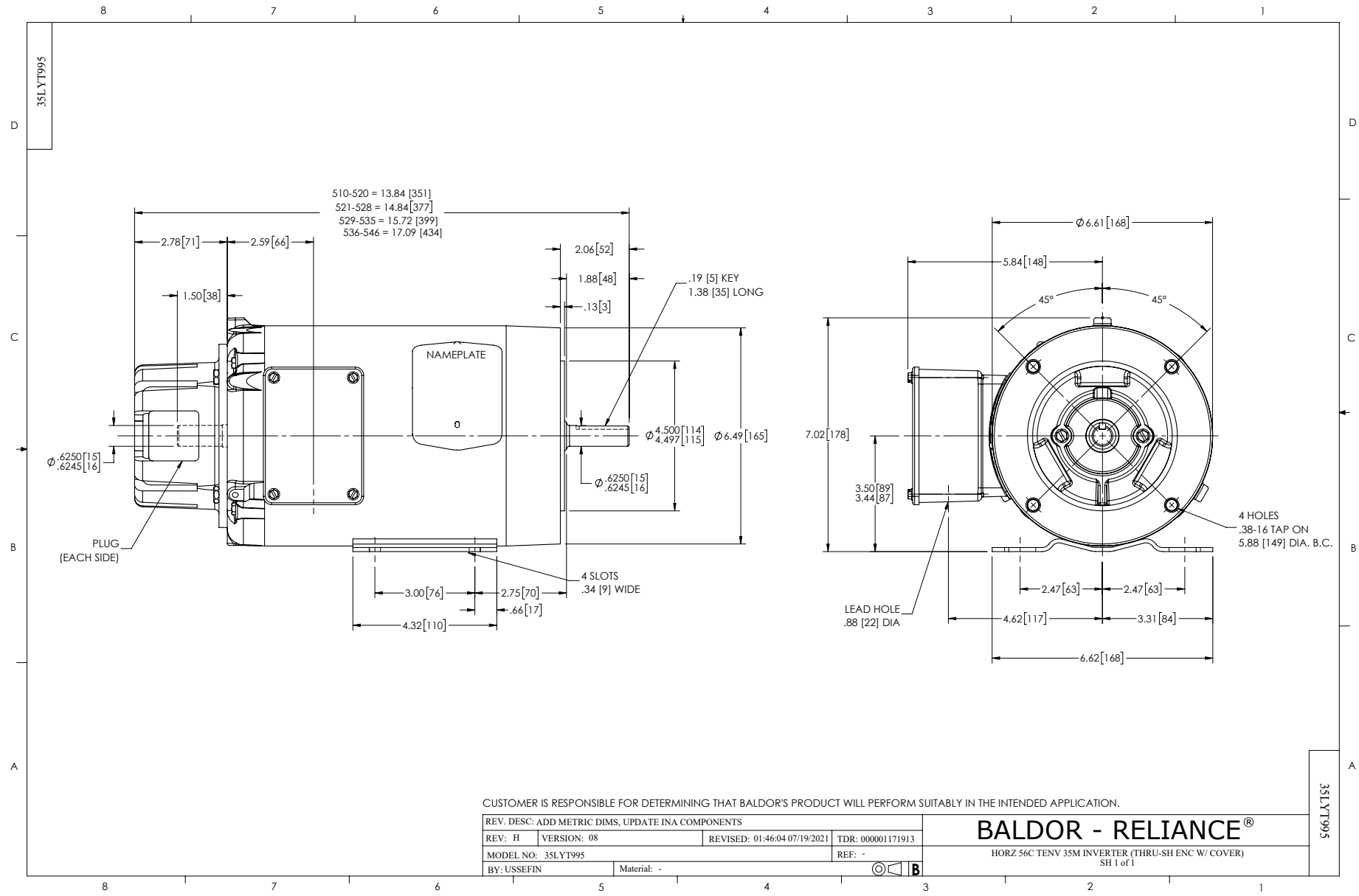
WINDING # 35WGG155

0.33 HP 3 PH 60 HZ 1780 RPM 460 V 3512M

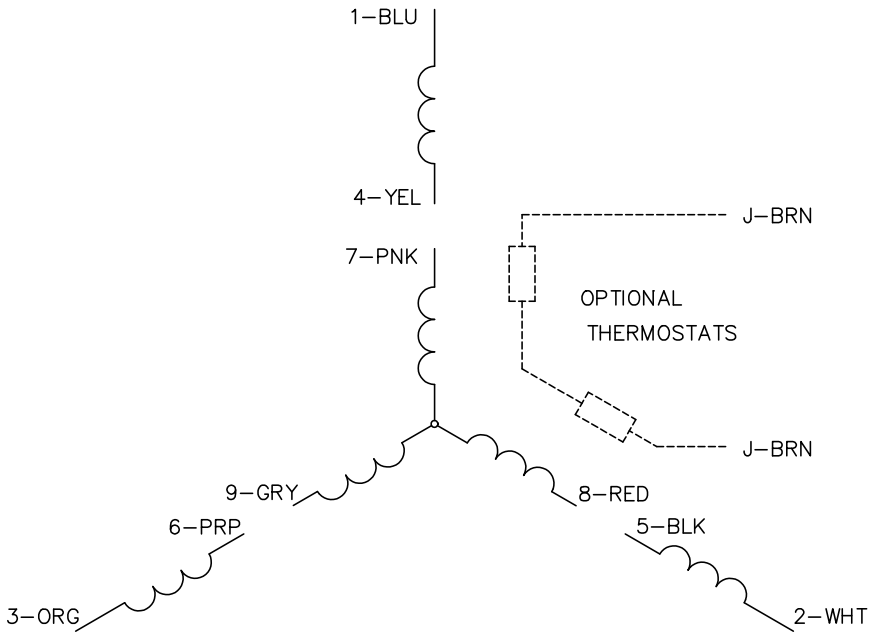
Typical performance - not guaranteed values.

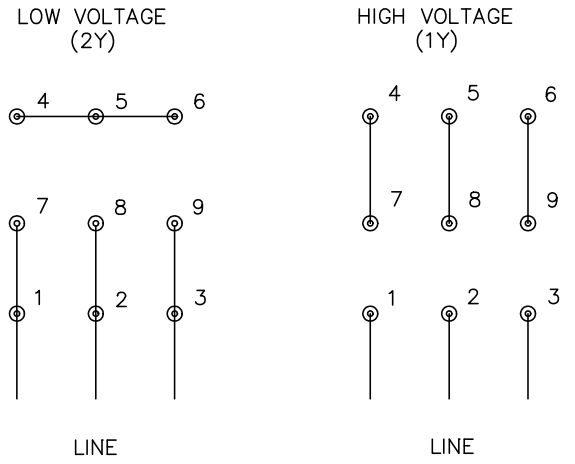
TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71




35LYT995
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: -
BALDOR - RELIANCE®
HORZ 56C TENV 35M INVERTER (THRU-SH ENC W/ COVER)
SH 1 of 1
35LYT995

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