ABB BALDOR RELIANCE

Customer information packet

VSSWDM3534

.33HP, 1780RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	1.700 A @ 230.0 V
	1.500 A @ 208.0 V
	.850 A @ 460.0 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

Part Detail

Revision	D
Type	AC
Mech. spec.	35V824
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYV824
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-05-2022

High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	S
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
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	11.08 IN
Power Factor	49
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 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

NP1951A01									
CAT.NO.	VSSWDM3534								
SPEC.	35V824G155G2								
HP	.33								
VOLTS	208-230/460								
AMP	1.5-1.7/.85								
RPM	1780								
FRAME	56C		**HZ**	60		**PH**	3		
SER.F.	1.25	**CODE**	S	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	75.5		**PF**	49					
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	TENV	**SN**							
	SFA 1.9-1.8/.9								
	20:1CT 20:1VT								

AC Induction Motor Performance Data
Record # 82222
Typical performance - not guaranteed values

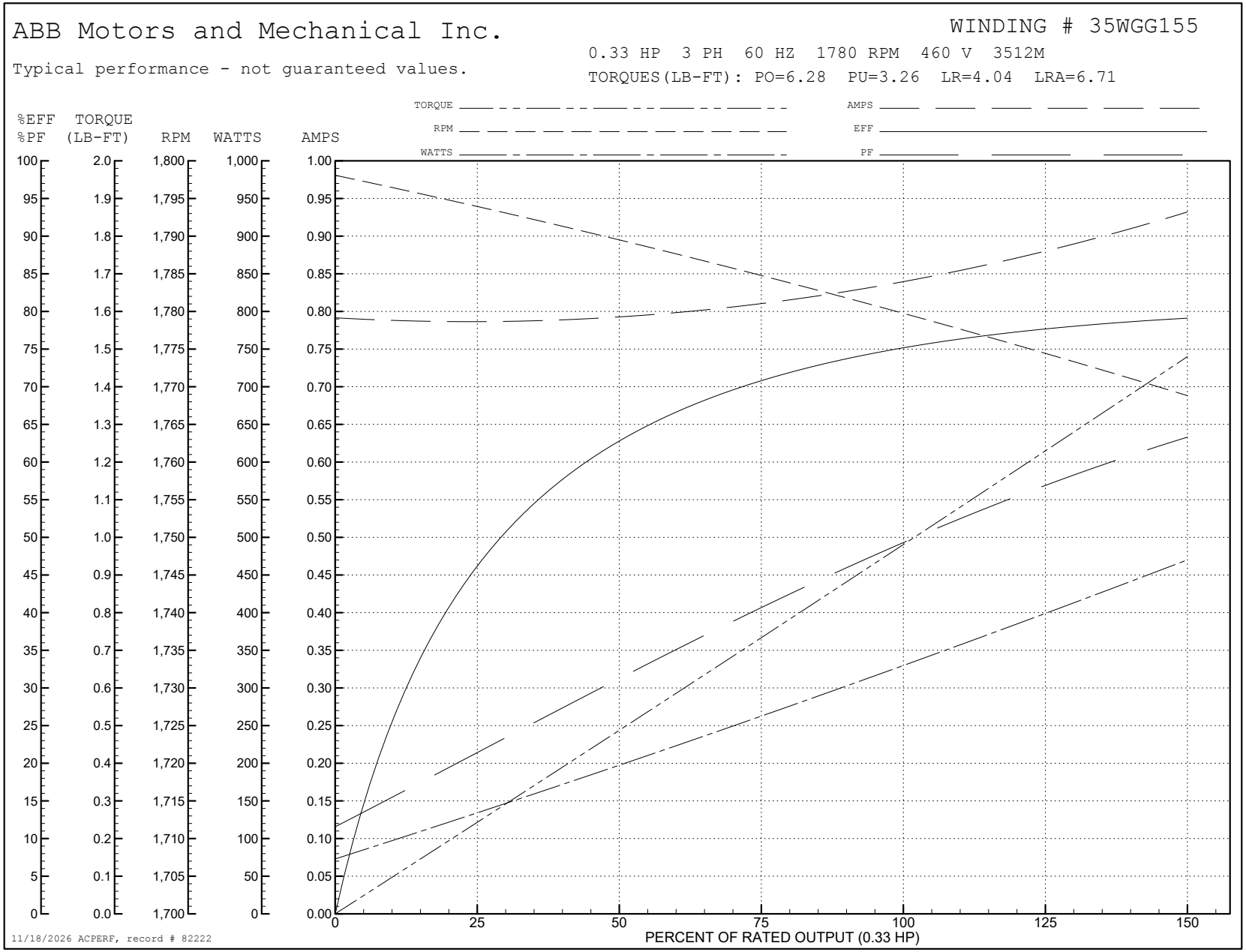
Winding: 35WGG155-R015	**Type:** 3512M	**Enclosure:** TENV

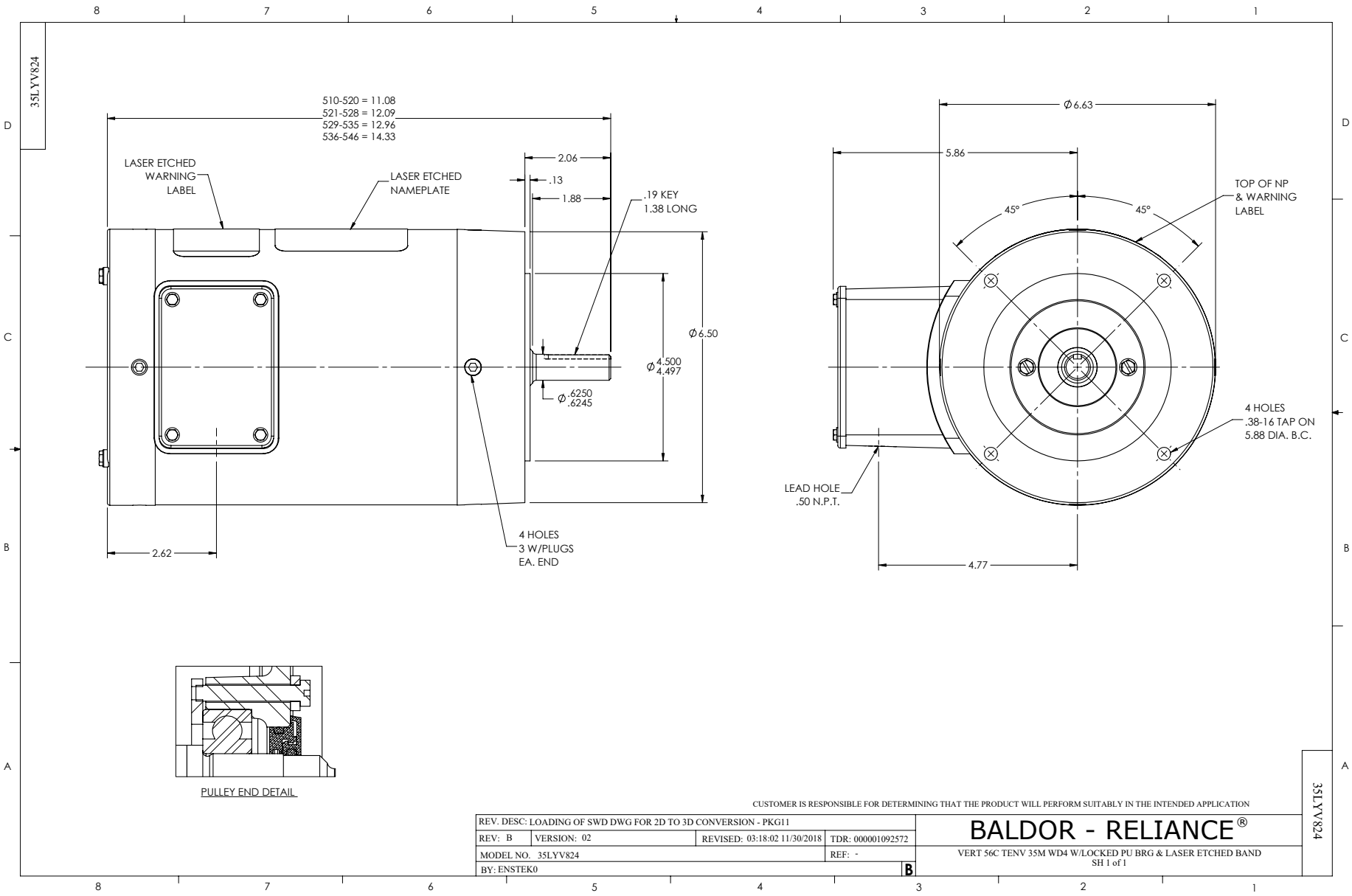
Nameplate Data			
Rated Output (HP)			.33
Volts			208-230/460
Full Load Amps			1.5-1.7/.85
R.P.M.			1780
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	S
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	75.5	**Power Factor**	49
Rating - Duty			40C AMB-CONT
S.F. Amps			1.9-1.8/.9

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
Temp. Rise @ S.F. Load	53°C
Locked-rotor Power Factor	70.8
Rotor inertia	0.0866 lb-ft²

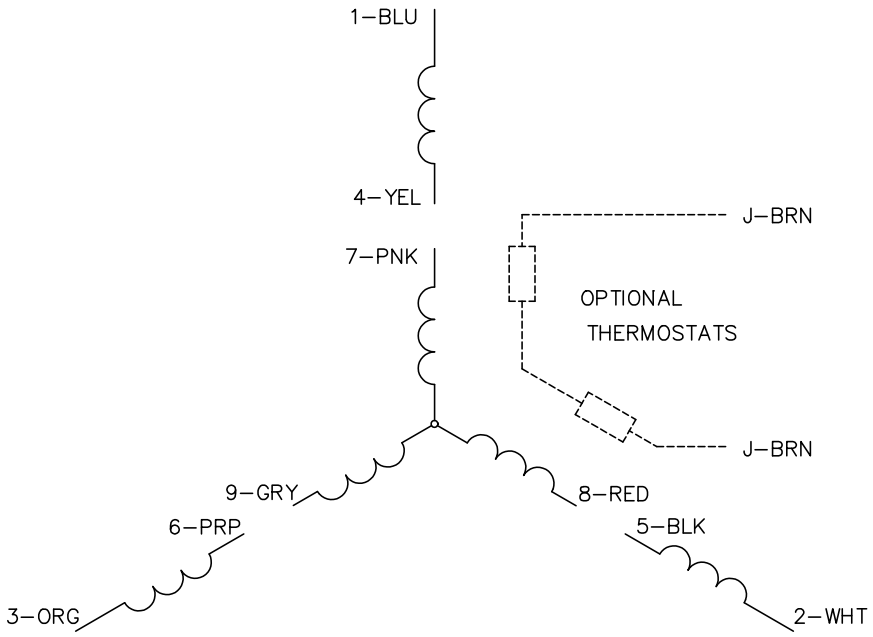
Load Characteristics 460 V, 60 Hz, 0.33 HP

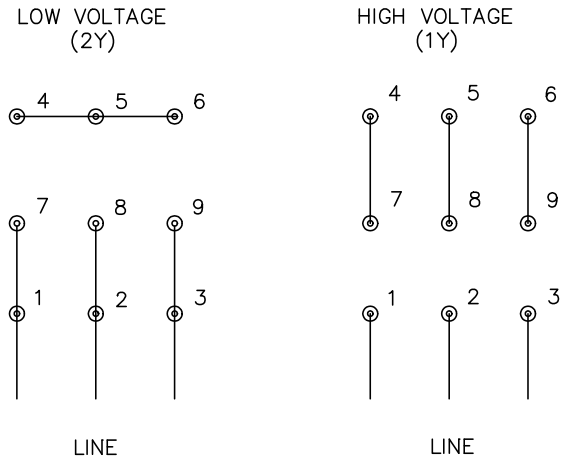
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	22	31	41	49	57	63	57
Efficiency	47.4	63.1	70.8	75.1	77.6	79.1	77.6
Speed	1794	1789	1785	1780	1774	1769	1774
Line amperes	0.786	0.791	0.814	0.839	0.878	0.933	0.878


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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/18/2026 ACPERF, record # 82222


35LYV824
510-520 = 11.08
521-528 = 12.09
529-535 = 12.96
536-546 = 14.33
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
2.06
.13
1.88
.19 KEY
1.38 LONG
Ø6.50
Ø4.500
4.497
Ø.6250
.6245
2.62
4 HOLES
3 W/PLUGS
EA. END
Ø6.63
5.86
45°
45°
TOP OF NP
& WARNING
LABEL
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
.50 N.P.T.
4.77
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 - PKG11
REV: B
VERSION: 02
REVISED: 03:18:02 11/30/2018
TDR: 000001092572
MODEL NO. 35LYV824
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
VERT 56C TENV 35M WD4 W/LOCKED PU BRG & LASER ETCHED BAND
SH 1 of 1
35LYV824

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