ABB BALDOR RELIANCE

Customer information packet

VSSWDM3537

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1
Class - None
Division - Not Applicable

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11/5/2026 12:08:45 PM

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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	1.900 A @ 208.0 V
	1.800 A @ 230.0 V
	.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AG
Type	AC
Mech. spec.	35V824
Base	
Status	PRD/A
Elec. spec.	35WG1706
Layout	35LYV824
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-22-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	2
Overall Length	11.09 IN
Power Factor	76
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1951A01								
CAT.NO.	VSSWDM3537							
SPEC.	35V824-1706G1							
HP	.5							
VOLTS	208-230/460							
AMP	1.9-1.8/.9							
RPM	3450							
FRAME	56C	**HZ**	60	**PH**	3			
SER.F.	1.00	**CODE**	L	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	70	**PF**	76					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TENV	**SN**						
	10:1CT 20:1VT							

AC Induction Motor Performance Data
Record # 20962
Typical performance - not guaranteed values

Winding: 35WG1706-R008	**Type:** 3512M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	0.752 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			1.9-1.8/.9	**Breakdown Torque**	3.06 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.14 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	2.44 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	5.71 A
Service Factor (S.F.)			1	**No-load Current**	0.525 A
NEMA Nom. Eff.	70	**Power Factor**	76	**Line-line Res. @ 25ºC**	37.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
				Locked-rotor Power Factor	72.9
				Rotor inertia	0.0332 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	48	62	72	79	83	86
Efficiency	43.9	59.7	67.1	70.5	72.1	72.5
Speed	3557	3530	3502	3471	3438	3402
Line amperes	0.565	0.636	0.727	0.839	0.961	1.1

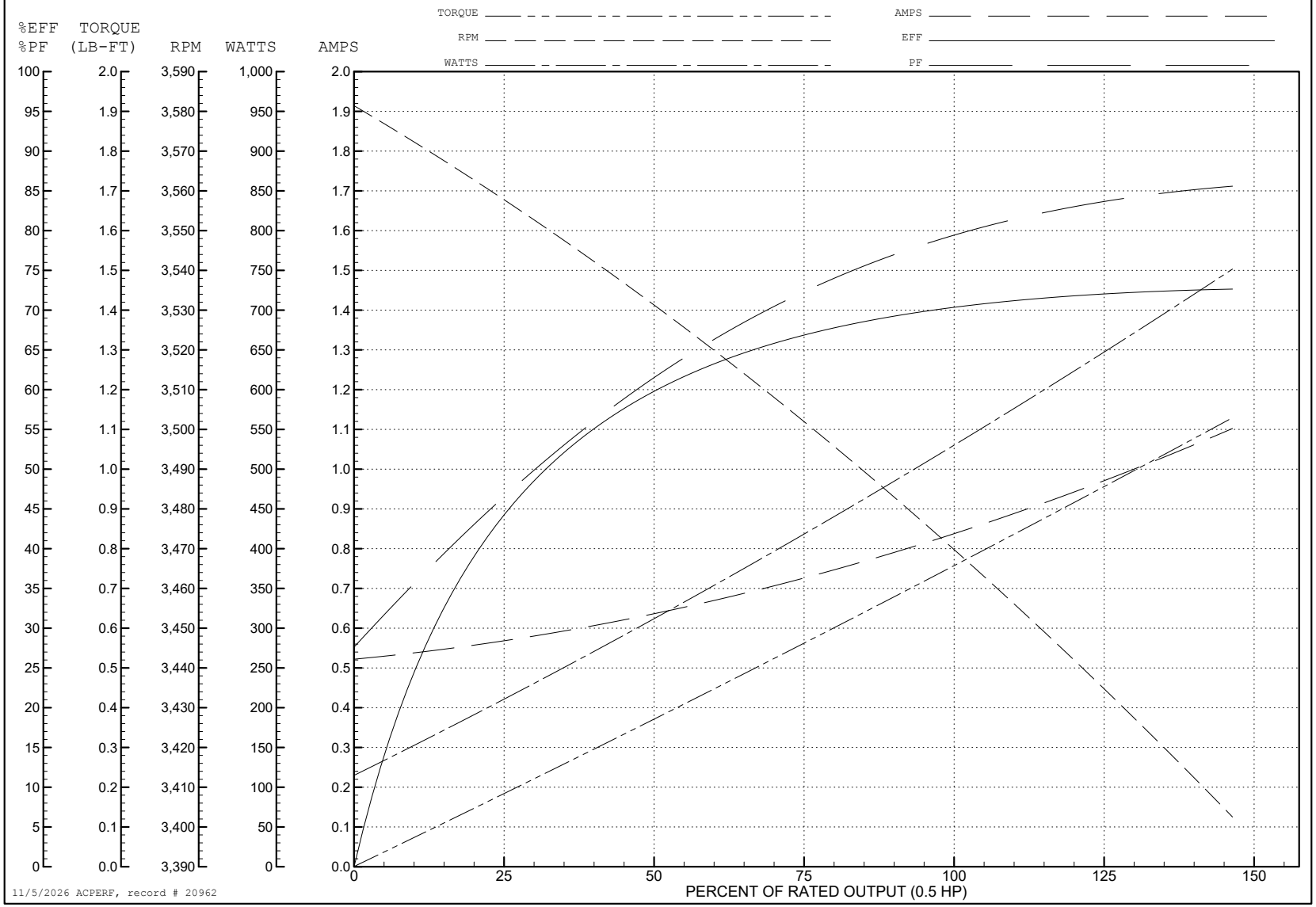
ABB Motors and Mechanical Inc.

WINDING # 35WG1706

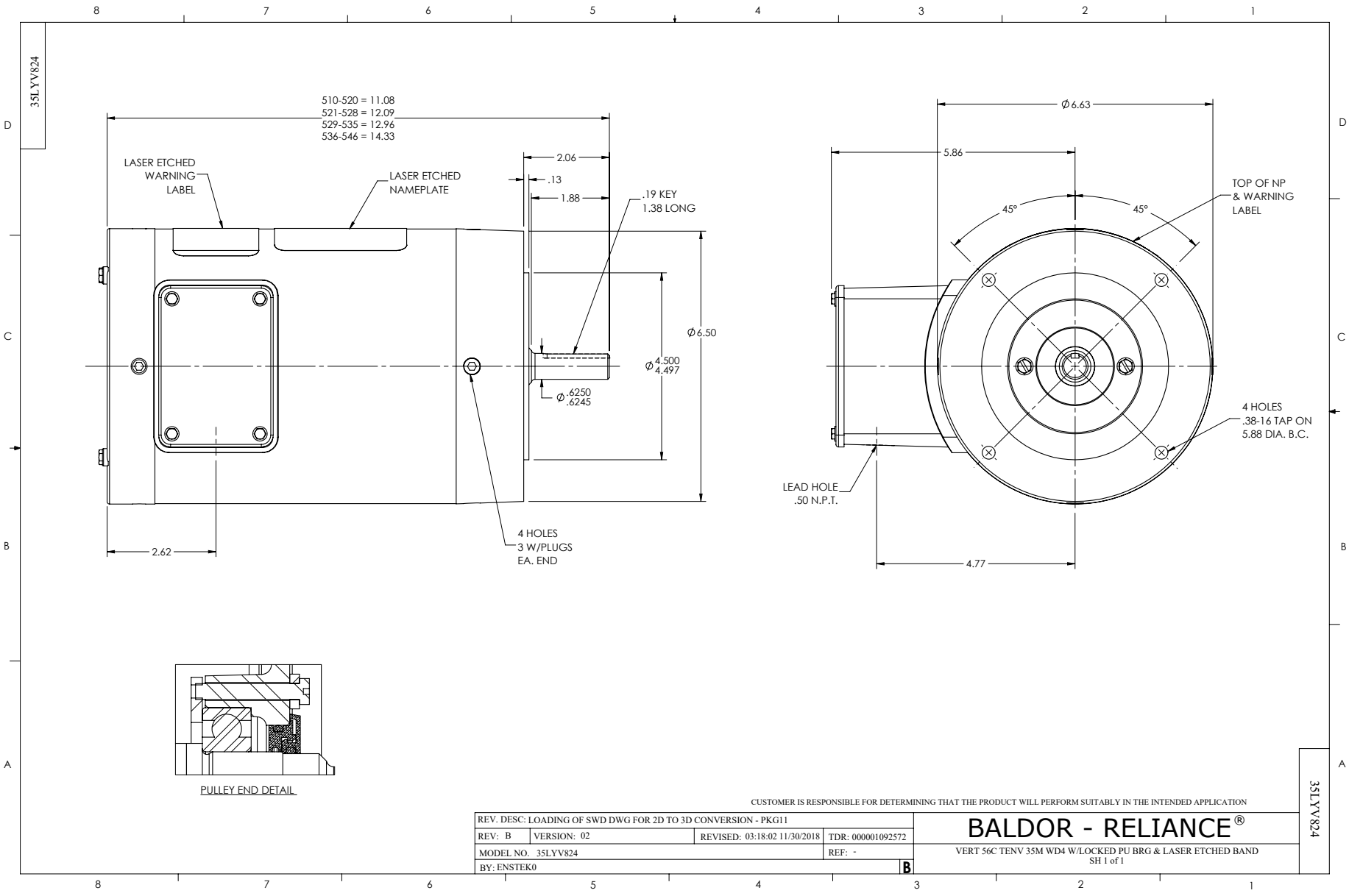
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3512M

Typical performance - not guaranteed values.

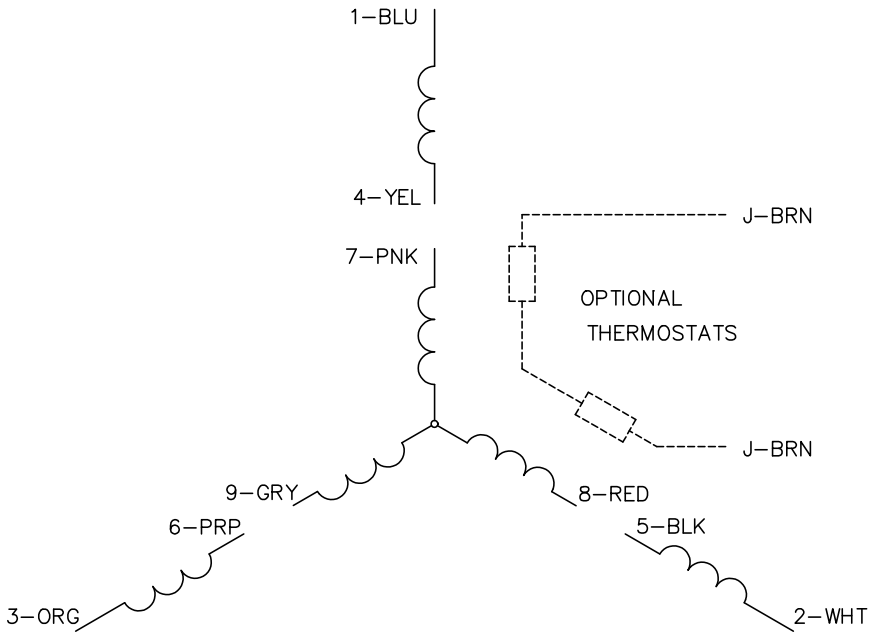
TORQUES(LB-FT): PO=3.06 PU=2.14 LR=2.44 LRA=5.71

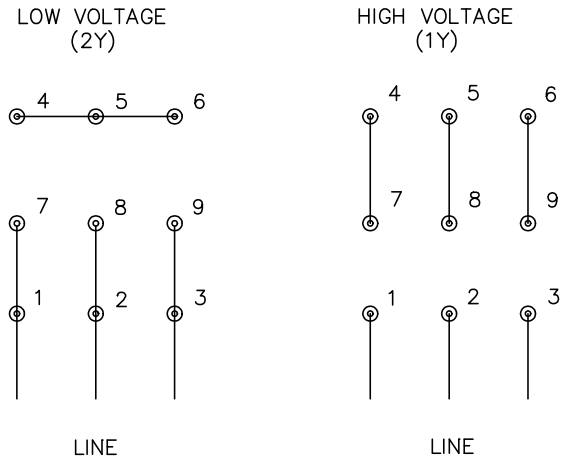


11/5/2026 ACPERF, record # 20962


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