ABB BALDOR RELIANCE

Customer information packet

VSSEWDM3538

.5HP, 1765RPM, 3PH, 60HZ, 56C, 3516M, TENV, F1
Class - None
Division - Not Applicable

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11/19/2026 8:10:49 AM

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	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	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	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	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	C
Type	AC
Mech. spec.	35Z199
Base	
Status	PRD/A
Elec. spec.	35WGZ944
Layout	35LYZ199
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

High Voltage Full Load Amps	0.9 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	11.75 IN
Power Factor	65
Product Family	Washdown All Stainless
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1951A01									
CAT.NO.									
SPEC.	35Z199Z944G1								
HP	.5								
VOLTS	208-230/460								
AMP	1.9-1.8/.9								
RPM	1770								
FRAME	56C		**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	H		
NEMA-NOM-EFF	80		**PF**	65					
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6205					
ENCL	TENV	**SN**							
	SFA 2.1-1.9/0.95								

AC Induction Motor Performance Data
Record # 91508
Typical performance - not guaranteed values

Winding: 35WGZ944-R002	**Type:** 3512M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.49 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			1.9-1.8/.9	**Breakdown Torque**	6.28 LB-FT
R.P.M.			1770	**Pull-up Torque**	3.26 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.04 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	6.71 A
Service Factor (S.F.)			1.15	**No-load Current**	0.792 A
NEMA Nom. Eff.	80	**Power Factor**	65	**Line-line Res. @ 25ºC**	43.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps			2.1-1.9/0.95	**Temp. Rise @ S.F. Load**	64°C
				Locked-rotor Power Factor	70.7767
				Rotor inertia	0.0866 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	41	52	62	69	75	66
Efficiency	56.5	70.7	76.5	78.9	80	80	79.6
Speed	1792	1786	1779	1771	1763	1755	1766
Line amperes	0.795	0.827	0.889	0.966	1.06	1.18	1.02

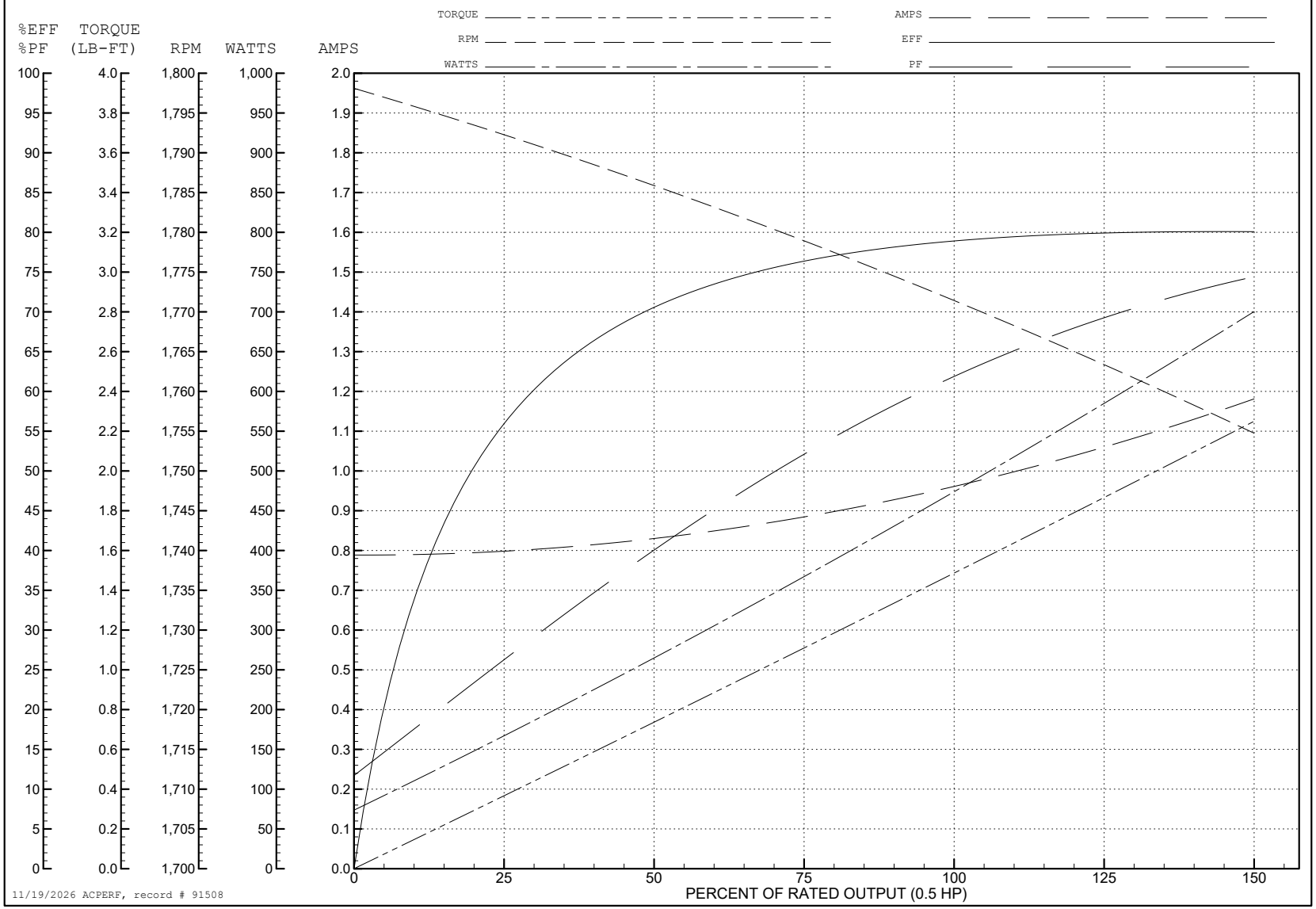
ABB Motors and Mechanical Inc.

WINDING # 35WGZ944

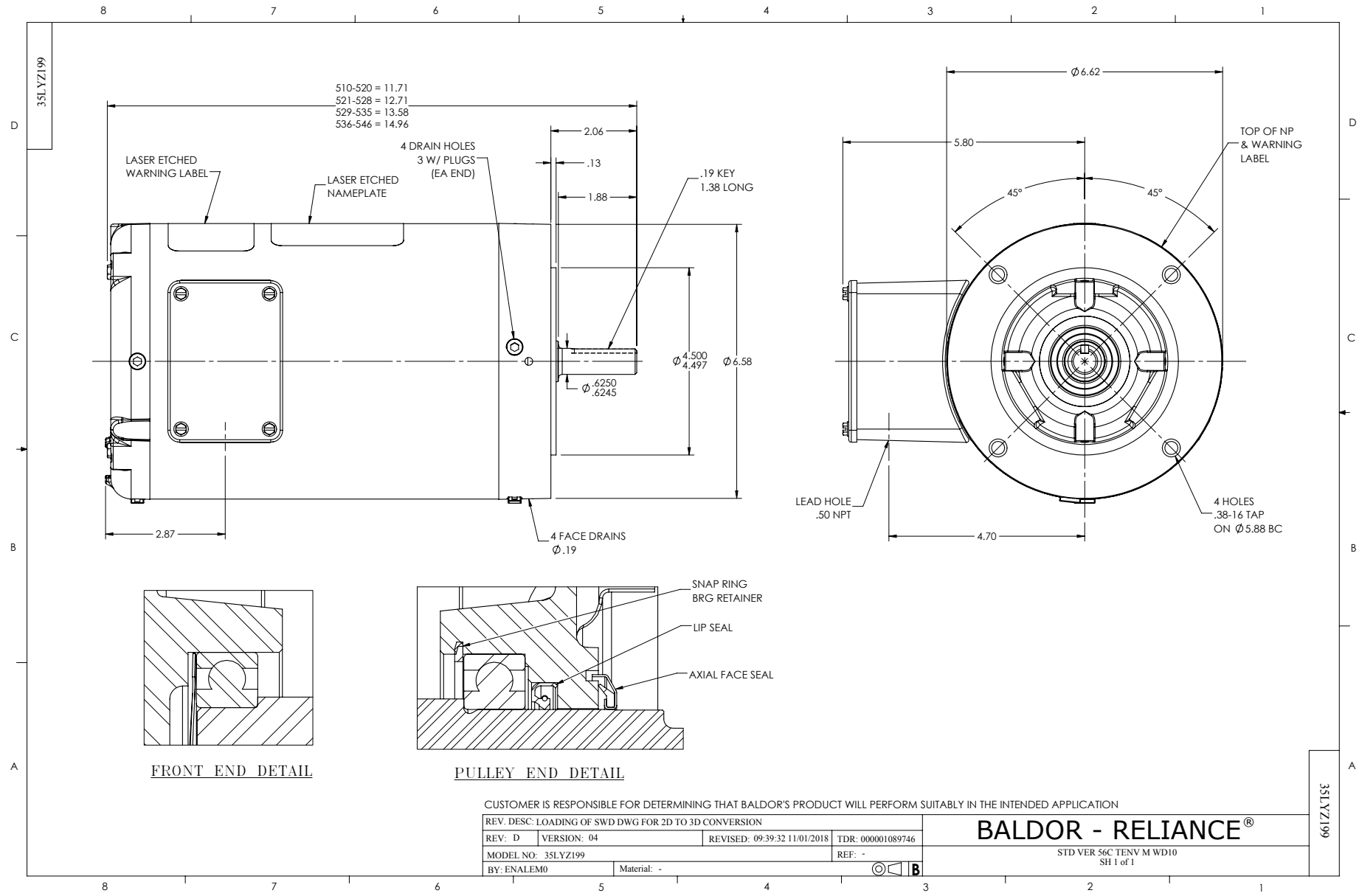
0.5 HP 3 PH 60 HZ 1770 RPM 460 V 3512M

Typical performance - not guaranteed values.

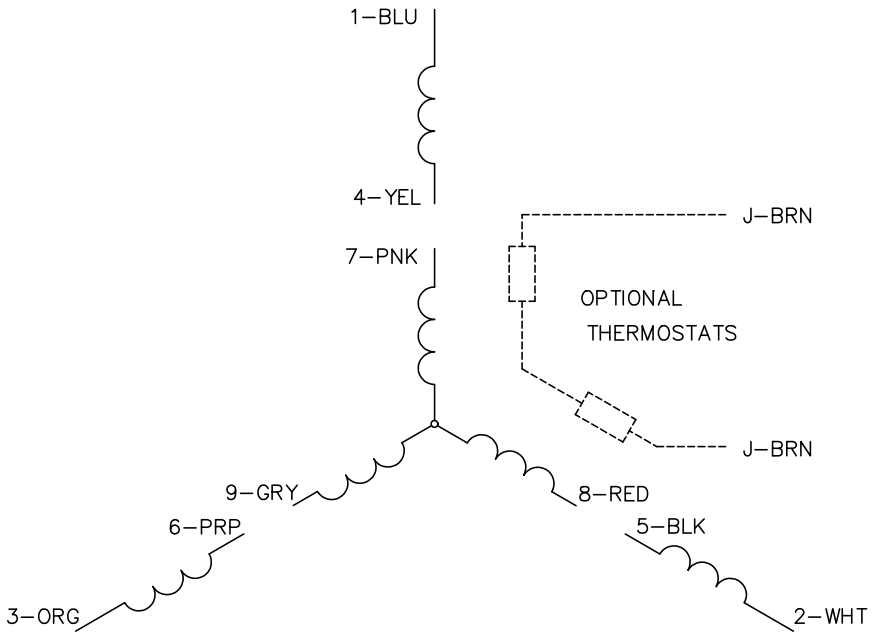
TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71

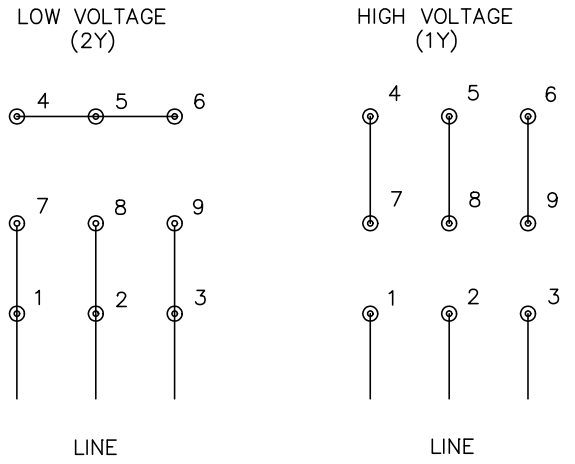


11/19/2026 ACPERF, record # 91508


35LYZ199
510-520 = 11.71
521-528 = 12.71
529-535 = 13.58
536-546 = 14.96
2.06
.13
1.88
4 DRAIN HOLES
3 W/ PLUGS
(EA END)
LASER ETCHED
WARNING LABEL
LASER ETCHED
NAMEPLATE
.19 KEY
1.38 LONG
Ø4.500
4.497
Ø6.58
Ø.6250
.6245
2.87
4 FACE DRAINS
Ø.19
Ø6.62
5.80
TOP OF NP
& WARNING
LABEL
45°
45°
LEAD HOLE
.50 NPT
4.70
4 HOLES
.38-16 TAP
ON Ø5.88 BC
SNAP RING
BRG RETAINER
LIP SEAL
AXIAL FACE SEAL
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION
REV: D
VERSION: 04
REVISED: 09:39:32 11/01/2018
TDR: 000001089746
MODEL NO: 35LYZ199
REF: -
BY: ENALEM0
Material: -
B
BALDOR - RELIANCE®
STD VER 56C TENV M WD10
SH 1 of 1
35LYZ199

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