ABB BALDOR RELIANCE

Customer information packet

EJMM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145JM, 3524M, OPSB
Class - None
Division - Not Applicable

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11/21/2026 2:11:15 PM

Specifications

Enclosure	OPSB
Frame	145JM
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	1.500 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 EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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	4.640 A @ 208.0 V
	4.600 A @ 230.0 V
	2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	35L509
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYL509
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Ready
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	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.75 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP3553LUA										
CAT.NO.	EJMM3154T									
SPEC.	35L509L955G1									
HP	1.5									
VOLTS	230/460									
AMPS	4.6/2.3									
RPM	1770									
FRAME	145JM	**HZ**	60			**PH**	3			
SF	1.15	**CODE**	M	**DES**	B	**CLASS**	F			
NEMA NOM. EFF	86.5	**PF**	72							
RATING	40C AMB-CONT									
CC	010A									
ENCL	OPSB	**SN**								
DE	6206	**ODE**	6203							
VPWM INVERTER READY	SFA 5/2.5									
CT30-60(2:1) VT3-60(20:1)										
USABLE AT	1.5HP 190/380V 50HZ 5.2/2.6A									SF1.0

AC Induction Motor Performance Data
Record # 95388
Typical performance - not guaranteed values

Winding: 35WGL955-R002	**Type:** 3524M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.48 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.6/2.3	**Breakdown Torque**	18.8 LB-FT
R.P.M.			1770	**Pull-up Torque**	9.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12.6 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	19.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.51 A
NEMA Nom. Eff.	86.5	**Power Factor**	72	**Line-line Res. @ 25ºC**	11.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps			5/2.5	**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.173 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	49	63	72	78	81	76
Efficiency	75.1	83.5	86	86.5	85.8	84.8	86.1
Speed	1792	1785	1777	1769	1760	1750	1764
Line amperes	1.56	1.72	1.97	2.28	2.65	3.06	2.5

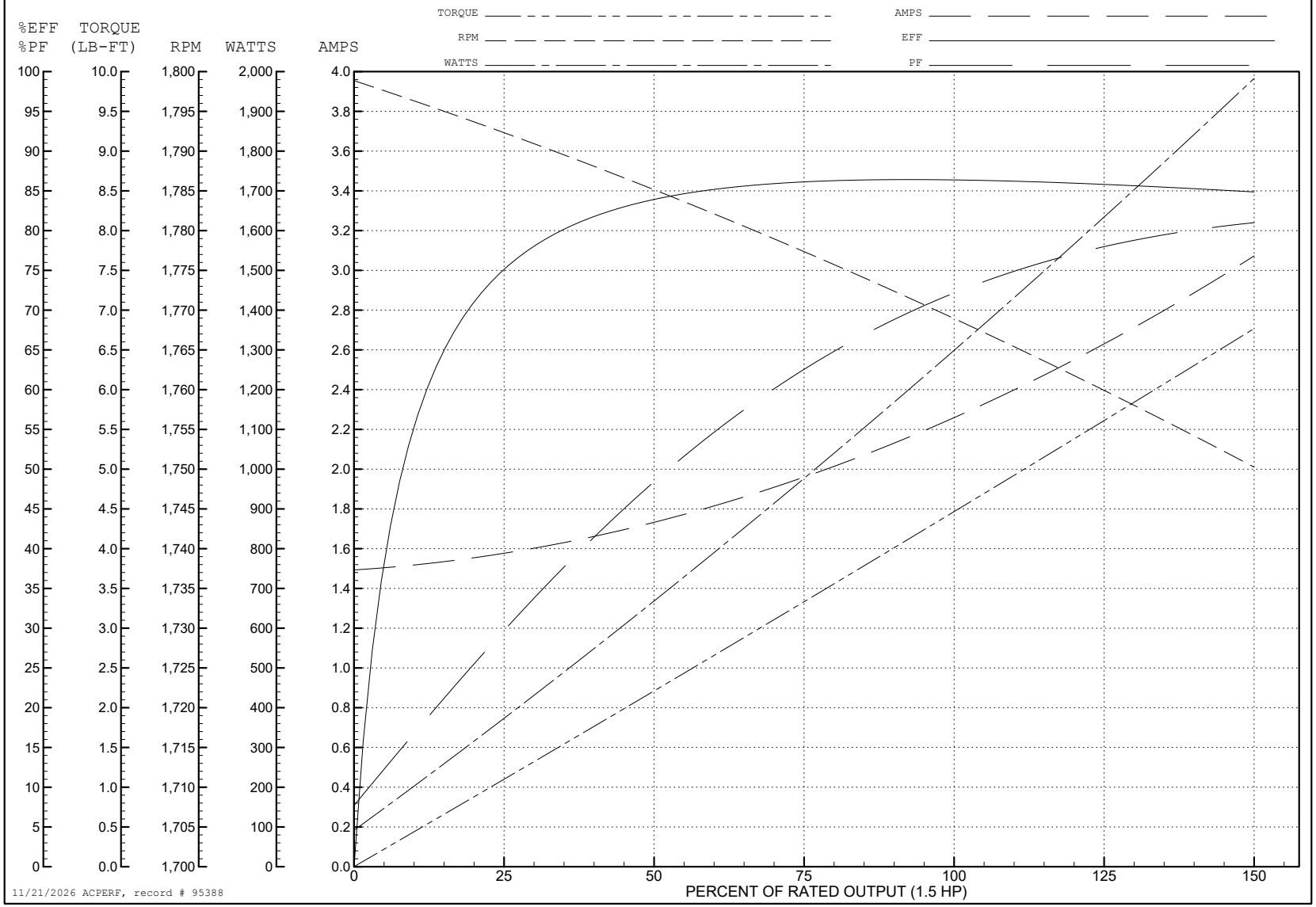
ABB Motors and Mechanical Inc.

WINDING # 35WGL955

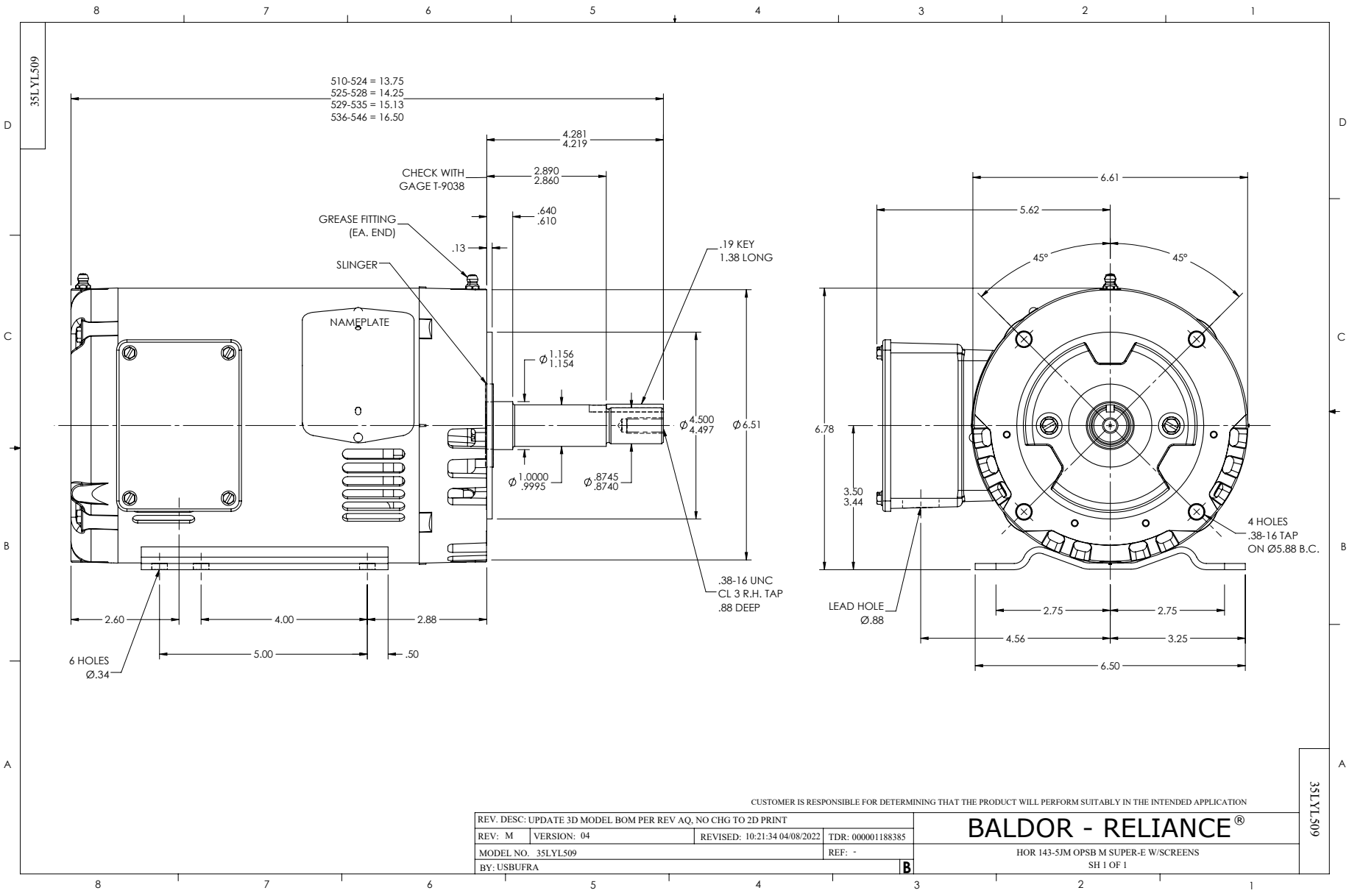
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

Typical performance - not guaranteed values.

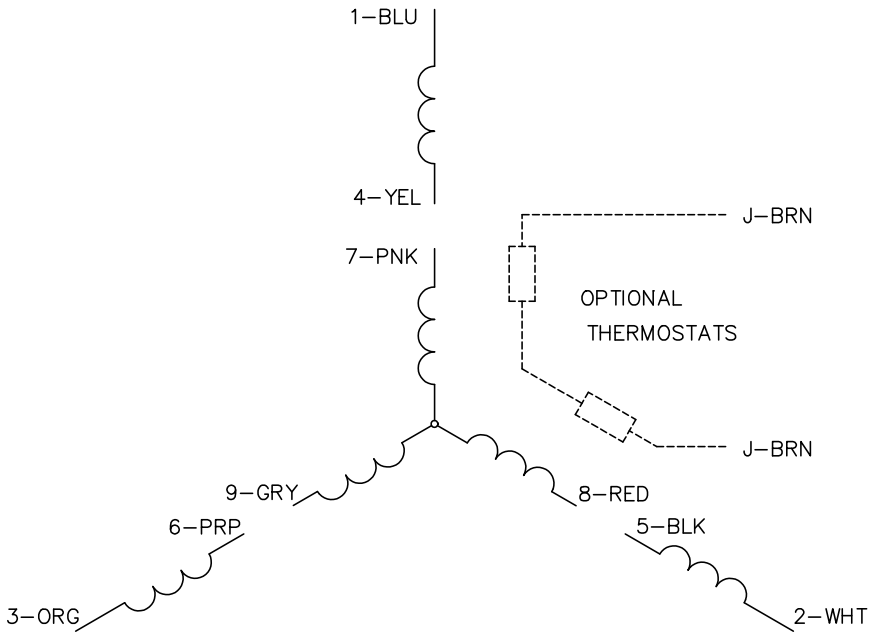
TORQUES(LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7

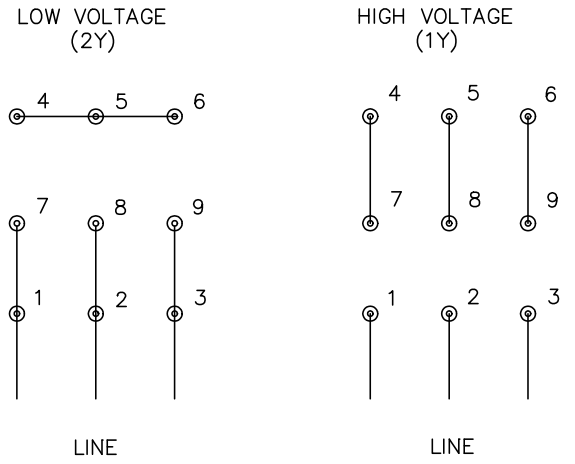


11/21/2026 ACPERF, record # 95388


35LYL509
510-524 = 13.75
525-528 = 14.25
529-535 = 15.13
536-546 = 16.50
4.281
4.219
CHECK WITH
GAGE T-9038
2.890
2.860
.640
.610
GREASE FITTING
(EA. END)
.13
SLINGER
.19 KEY
1.38 LONG
NAMEPLATE
Ø 1.156
1.154
Ø 4.500
4.497
Ø6.51
Ø 1.0000
.9995
Ø .8745
.8740
.38-16 UNC
CL 3 R.H. TAP
.88 DEEP
2.60
4.00
2.88
5.00
.50
6 HOLES
Ø.34
6.61
5.62
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
LEAD HOLE
Ø.88
2.75
2.75
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AQ, NO CHG TO 2D PRINT
REV: M
VERSION: 04
REVISED: 10:21:34 04/08/2022
TDR: 000001188385
MODEL NO. 35LYL509
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5JM OPSB M SUPER-E W/SCREENS
SH 1 OF 1
35LYL509

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