ABB BALDOR RELIANCE

Customer information packet

RM3154A

1.5HP, 1720RPM, 3PH, 60HZ, 56H, 3518M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	56H
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.000 A @ 230.0 V
	4.800 A @ 208.0 V
	3.200 A @ 208.0 V
	2.500 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.	35N501
Base	
Status	PRD/A
Elec. spec.	35WGG311
Layout	35LYN501
Eff. date	11-12-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	12-19-2022

High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.42 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1720 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valiid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	ES

Winding Thermal 2	None

Nameplate

NP1257L												
CAT.NO.	RM3154A											
SPEC.	35N501G311G1											
HP	1.5											
VOLTS	208-230/460											
AMP	4.8-5/2.5											
RPM	1720											
FRAME	56H		**HZ**	60		**PH**	3					
SER.F.	1.15	**CODE**	N	**DES**	B	**CL**	F					
NEMA-NOM-EFF	80	**PF**	69									
RATING	40C AMB-CONT											
CC												
DE	6205	**ODE**	6203									
ENCL	OPSB	**SN**										
	SFA 5.4-5.5/2.75											

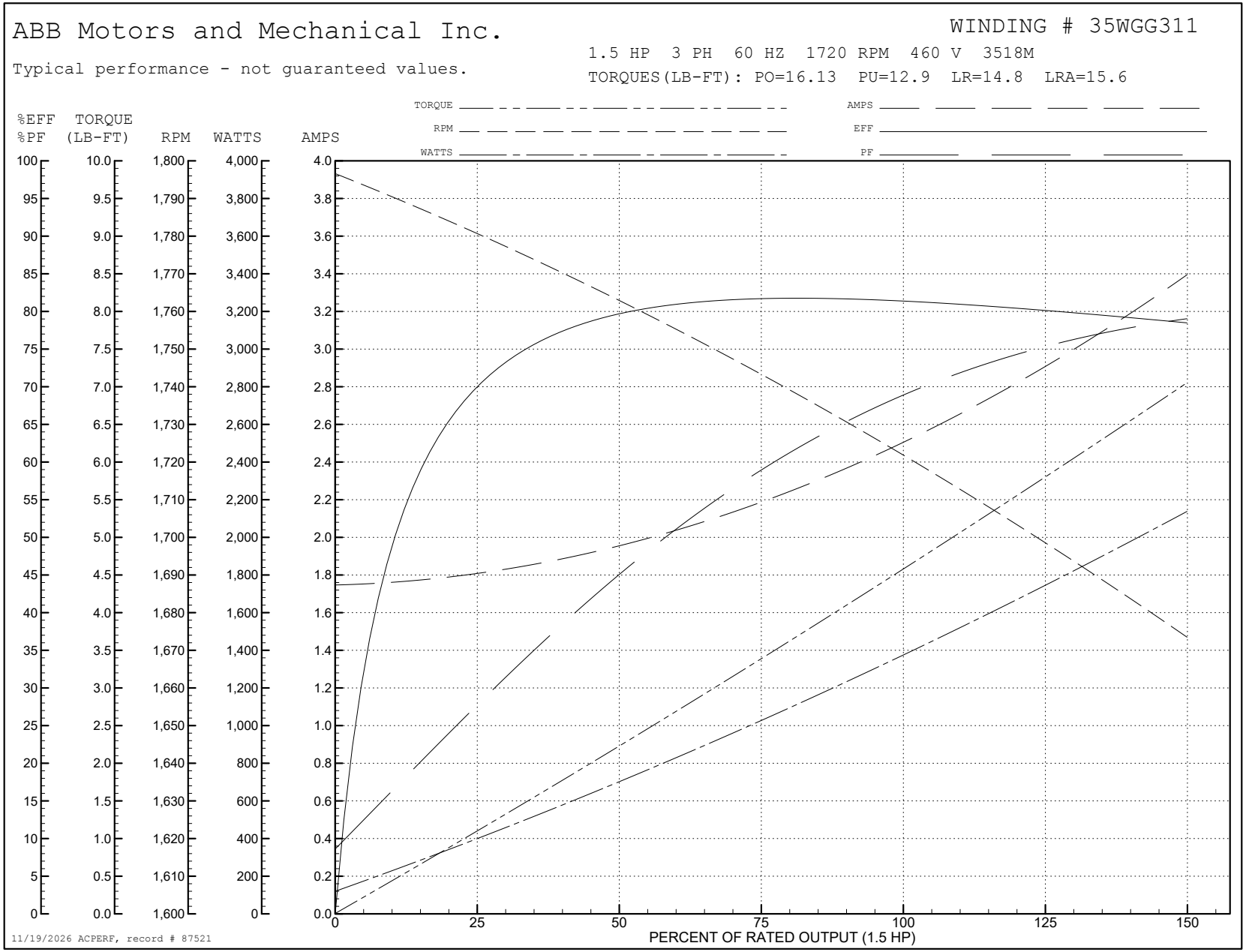
AC Induction Motor Performance Data
Record # 87521
Typical performance - not guaranteed values

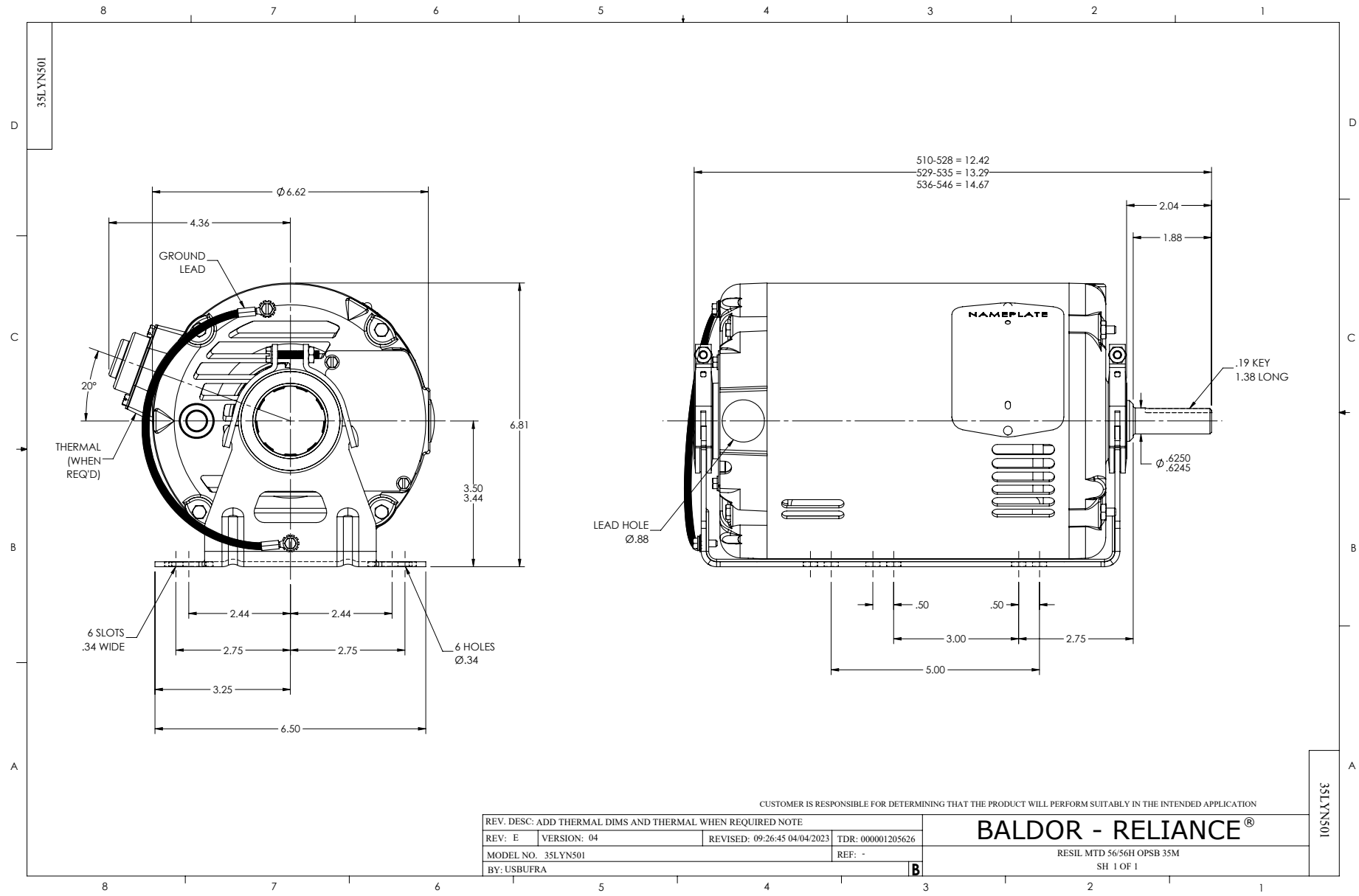
Winding: 35WGG311-R001	**Type:** 3518M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.57 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			4.8-5/2.5	**Breakdown Torque**	16.13 LB-FT
R.P.M.			1720	**Pull-up Torque**	12.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	14.8 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	15.6 A
Service Factor (S.F.)			1.15	**No-load Current**	1.76 A
NEMA Nom. Eff.	80	**Power Factor**	69	**Line-line Res. @ 25ºC**	15.6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps			5.4-5.5/2.75	**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	73.2
				Rotor inertia	0.13 lb-ft²

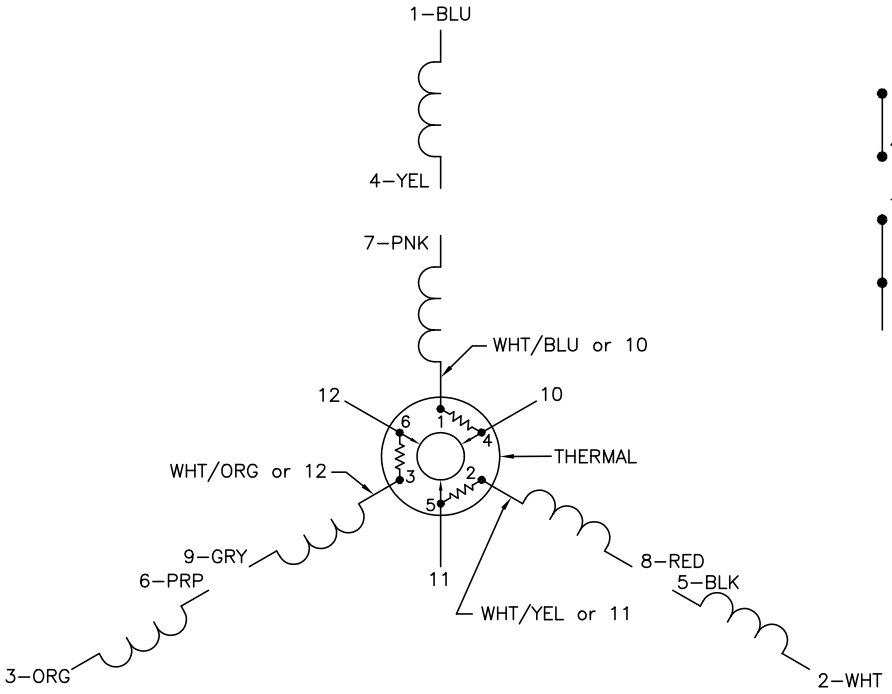
Load Characteristics 460 V, 60 Hz, 1.5 HP

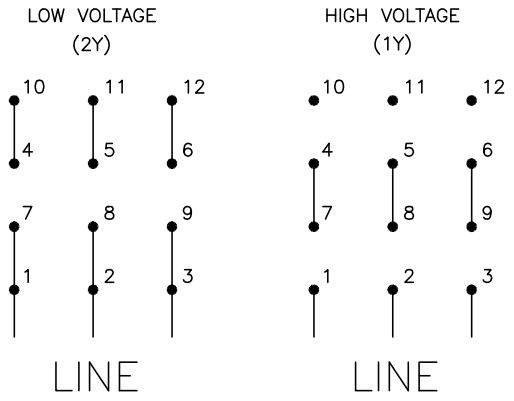
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	46	59	68	75	79	72
Efficiency	69.4	79.2	81.5	81.6	80.4	78.3	80.9
Speed	1780	1763	1743	1722	1699	1673	1708
Line amperes	1.79	1.95	2.19	2.52	2.91	3.39	2.75


ABB Motors and Mechanical Inc.
WINDING # 35WGG311
1.5 HP 3 PH 60 HZ 1720 RPM 460 V 3518M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=16.13 PU=12.9 LR=14.8 LRA=15.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/19/2026 ACPERF, record # 87521


35LYN501
Ø 6.62
4.36
GROUND LEAD
20°
THERMAL (WHEN REQ'D)
6.81
3.50
3.44
2.44
2.44
2.75
2.75
3.25
6.50
6 SLOTS .34 WIDE
6 HOLES Ø.34
510-528 = 12.42
529-535 = 13.29
536-546 = 14.67
2.04
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø .6250
.6245
LEAD HOLE Ø.88
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: E
VERSION: 04
REVISED: 09:26:45 04/04/2023
TDR: 000001205626
MODEL NO. 35LYN501
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
RESIL MTD 56/56H OPSB 35M
SH 1 OF 1
35LYN501

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007