ABB BALDOR RELIANCE

Customer information packet

EM31154A

1.5HP, 1760RPM, 3PH, 60HZ, 56, 3526M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
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	CURUSEEV
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	2.200 A @ 460.0 V
	4.400 A @ 230.0 V
	4.600 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGK546
Layout	35LYB011
Eff. date	01-02-2025
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	11-14-2024

Inverter Code	Inverter Ready
KVA Code	L
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	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.07 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1760 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	Automatic Thermal Overload
Winding Thermal 1 Location	ES
Winding Thermal 2	None

Nameplate

NP3273L											
CAT.NO.	EM31154A										
SPEC.	35B011K546G1										
HP	1.5										
VOLTS	230/460										
AMP	4.4/2.2										
RPM	1760										
FRAME	56		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F				
F.L. AVG. EFF.	86.5	**PF**	76								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									

AC Induction Motor Performance Data
Record # 107640
Typical performance - not guaranteed values

Winding: 35WGK546-R001	**Type:** 3526M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.514 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.4/2.2	**Breakdown Torque**	19.1 LB-FT
R.P.M.			1760	**Pull-up Torque**	10.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	17.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.24 A
NEMA Nom. Eff.	86.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	12.836 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps				**Temp. Rise @ S.F. Load**	33°C
				Locked-rotor Power Factor	58.7
				Rotor inertia	0.188 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	55	68	76	81	84	79
Efficiency	78.6	85.5	86.9	86.5	85.3	83.6	85.8
Speed	1788.3	1778.6	1767.9	1756.2	1743.7	1729.5	1749
Line amperes	1.31	1.51	1.8	2.15	2.56	3.01	2.4

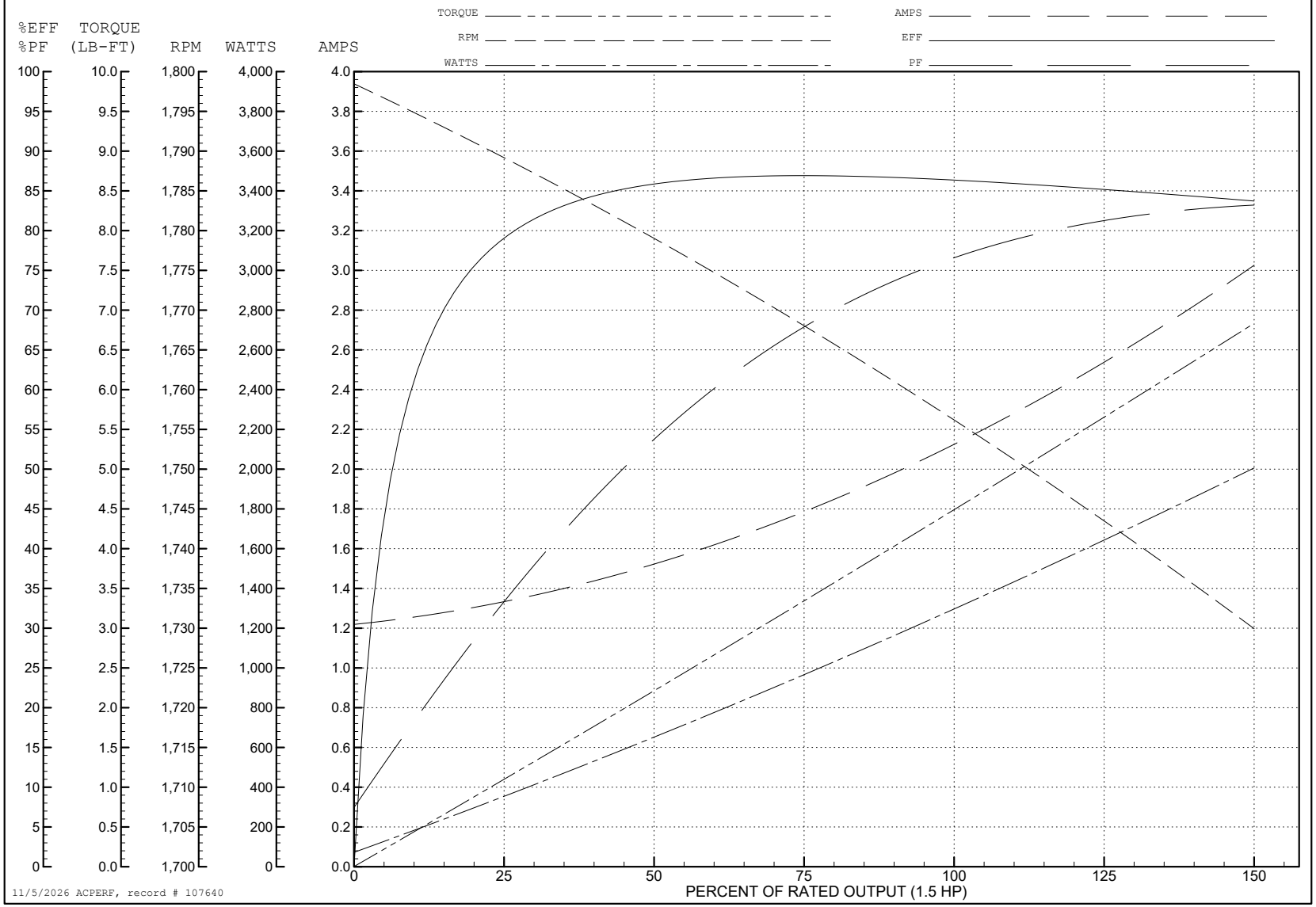
ABB Motors and Mechanical Inc.

WINDING # 35WGK546

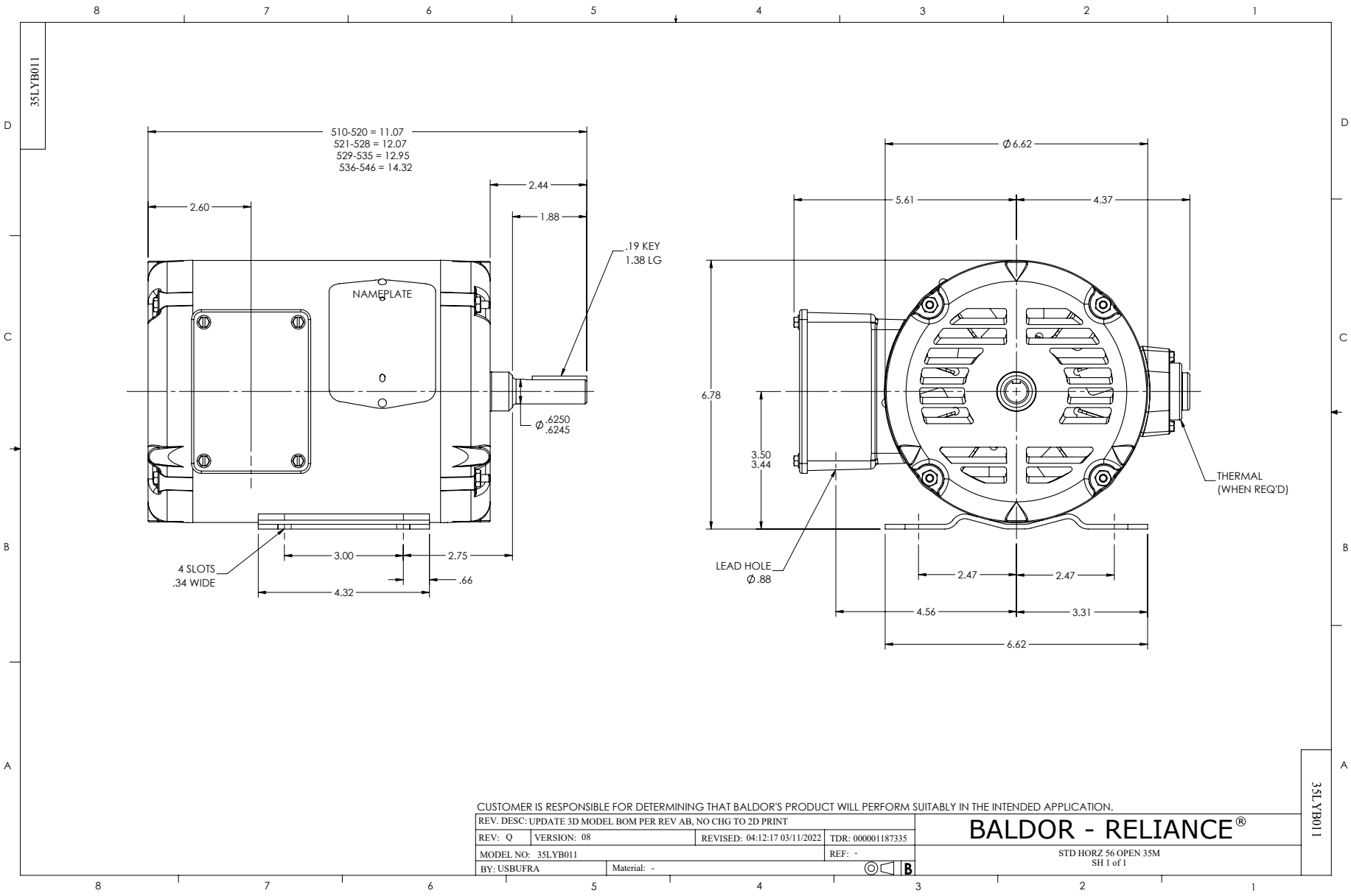
1.5 HP 3 PH 60 HZ 1760 RPM 460 V 3526M

Typical performance - not guaranteed values.

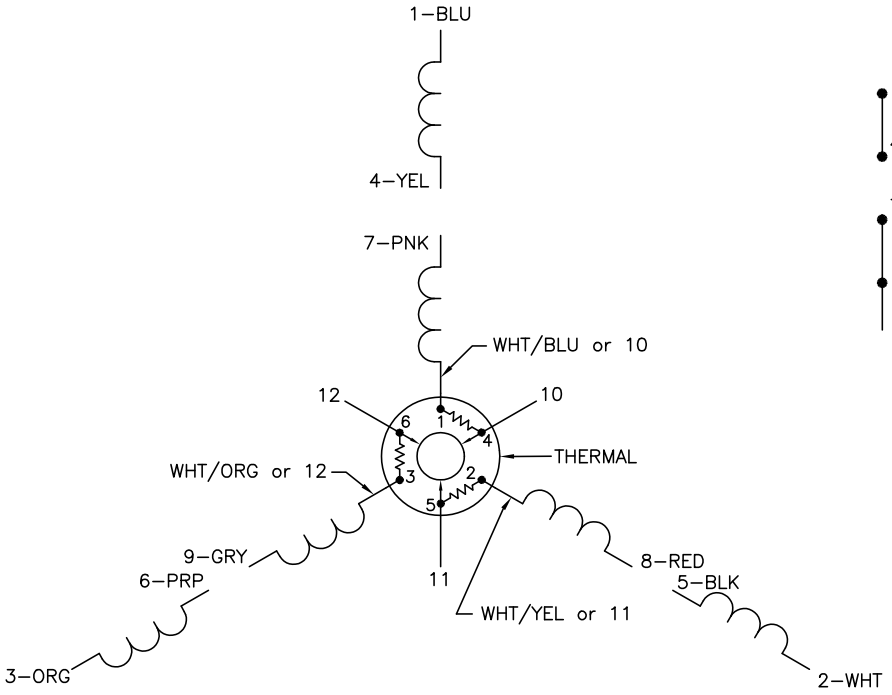
TORQUES(LB-FT): PO=19.1 PU=10.8 LR=12.7 LRA=17.1

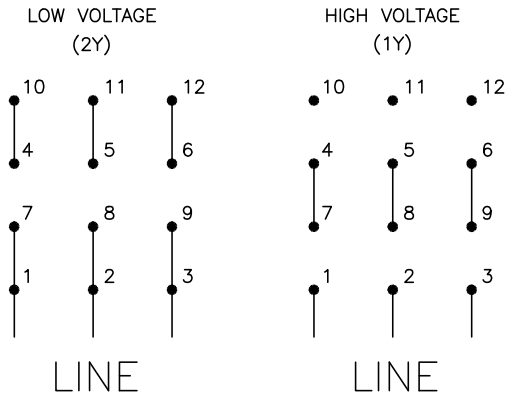


11/5/2026 ACPERF, record # 107640


35LYB011
510-520 = 11.07
521-528 = 12.07
529-535 = 12.95
536-546 = 14.32
2.44
2.60
1.88
.19 KEY
1.38 LG
NAMEPLATE
Ø .6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
Ø 6.62
5.61
4.37
6.78
3.50
3.44
THERMAL
(WHEN REQ'D)
LEAD HOLE
Ø .88
2.47
2.47
4.56
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV AB, NO CHG TO 2D PRINT
REV: Q
VERSION: 08
REVISED: 04:12:17 03/11/2022
TDR: 000001187335
MODEL NO: 35LYB011
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ 56 OPEN 35M
SH 1 of 1
35LYB011

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