

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM31154A**

**1.5HP,1750RPM,3PH,60HZ,56,3526M,OPEN,F1**

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGL172	CD Diagram:	CD0007	Mfg Plant:	
Mech. Spec:	35B011	Layout:	35LYB011	Poles:	04	Created Date:	10-10-2014
Base:	RG	Eff. Date:	09-05-2019	Leads:	12#18		

Specs			
Catalog Number:	EM31154A	Insulation Class:	F
Enclosure:	OPEN	Inverter Code:	Inverter Ready
Frame:	56	KVA Code:	M
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3526M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	72
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	2.200 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	4.400 A @ 230.0 V	<b>Shaft Rotation:</b>	Reversible
	4.600 A @ 208.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	B	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	Automatic Thermal Overload
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 1 Location:</b>	SB
		<b>Winding Thermal 2:</b>	None

Nameplate NP3273L										
CAT.NO.	EM31154A									
SPEC.	35B011L172G1									
HP	1.5									
VOLTS	230/460									
AMP	4.4/2.2									
RPM	1750									
FRAME	56				HZ	60			PH	3
SER.F.	1.15		CODE	M	DES	B		CL	F	
F.L. AVG. EFF.	86.5		PF	72						
RATING	40C AMB-CONT									
CC								USABLE AT 208V	4.6	
DE	6205				ODE	6203				
ENCL	OPEN		SN							

Parts List		
Part Number	Description	Quantity
SA288150	SA 35B011L172G1	1.000 EA
RA274348	RA 35B011L172G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
51XB1016A06	10-16X3/8 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3209G00	MASTER ODE,203 BRG	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3210B00	MASTER DE,205 BRG,1.000SH	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
LC0007	CONNECTION LABEL	1.000 EA
NP3273L	ALUM SUPER-E THERMALLY PROTECTED	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 57234 - Typical performance - not guaranteed values

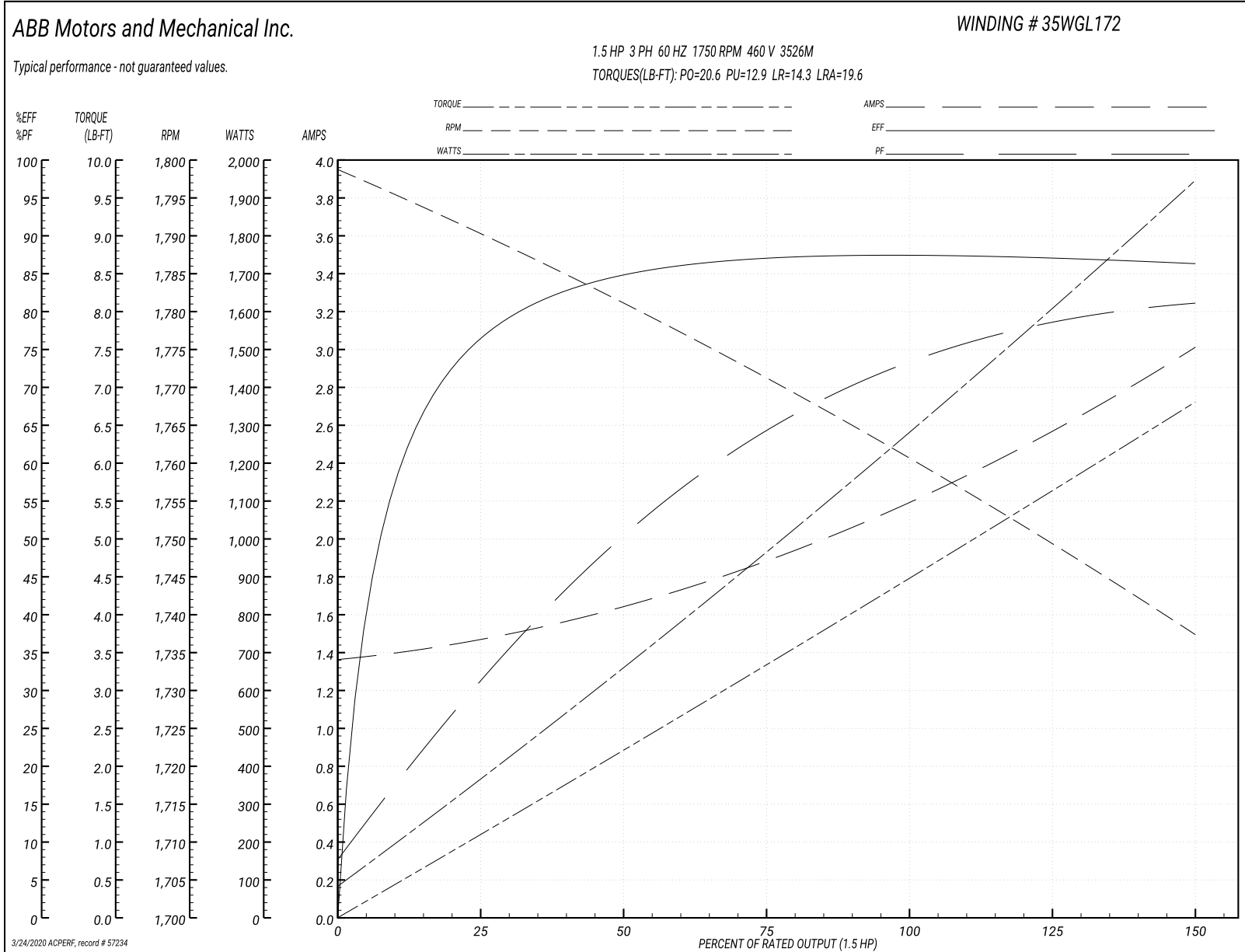
<b>Winding:</b> 35WGL172-R003	<b>Type:</b> 3526M	<b>Enclosure:</b> OPEN
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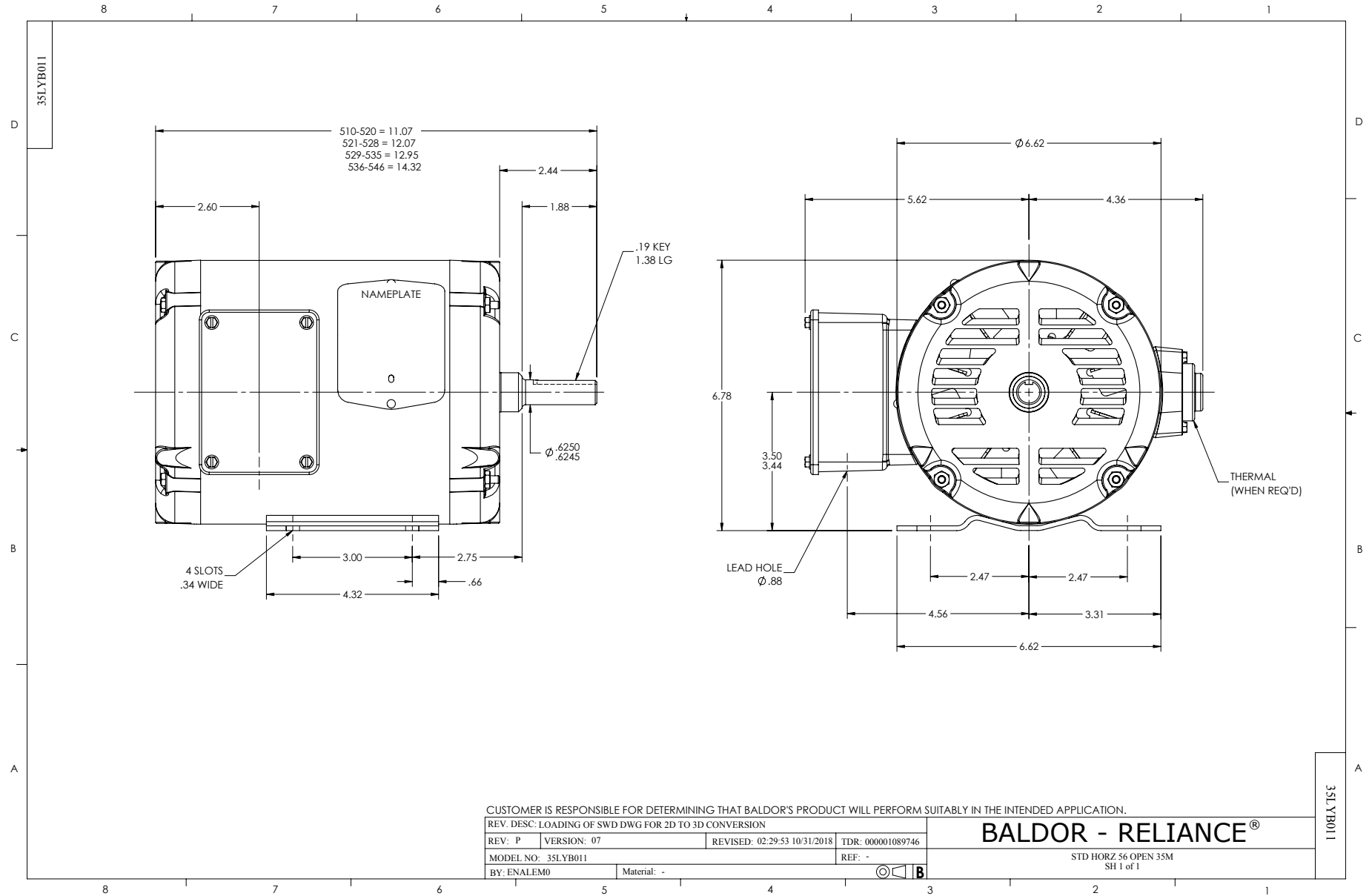
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1.5			Full Load Torque	4.46 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	4.4/2.2			Breakdown Torque	20.6 LB-FT
R.P.M.	1750			Pull-up Torque	12.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	14.3 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	19.6 A
Service Factor (S.F.)	1.15			No-load Current	1.38 A
NEMA Nom. Eff.	86.5	Power Factor	72	Line-line Res. @ 25°C	9.4929 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	34°C
S.F. Amps				Temp. Rise @ S.F. Load	40°C
				Locked-rotor Power Factor	49.6

Load Characteristics 460 V, 60 Hz, 1.5 HP

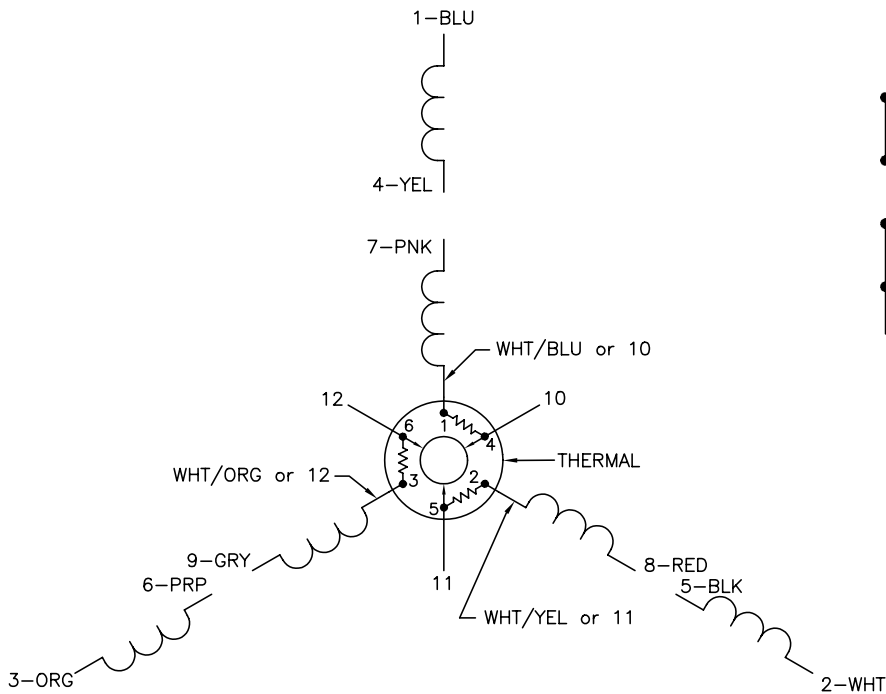
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	64	72	78	82	76
Efficiency	76.5	84.6	87	87.5	87.1	86.3	87.3
Speed	1790	1781.1	1771.5	1761	1749.5	1737.2	1754
Line amperes	1.45	1.63	1.88	2.2	2.58	3	2.43

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values

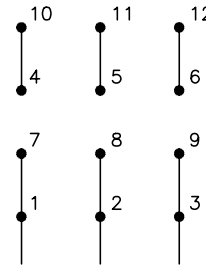




CD0007

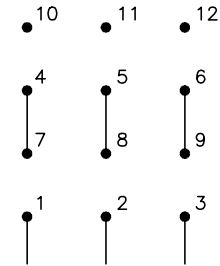


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
L0000		FILE: AAA00008370	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, THERMAL, 12 LEADS

CD0007