

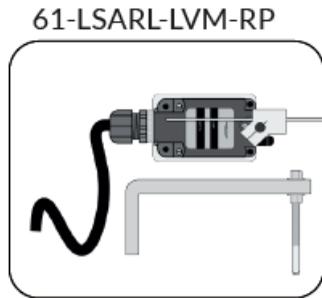
Specs

	LVM100-SRP
Voltage	24VDC
Amp	5
Watt	120
Output Speed	4 RPM
Output Torque	100NM
Shaft Output	Double
Drive Shaft Diam. Compatible	1.315"/1.66"

All electrical connections must be made by a qualified, licensed electrician. All connections must be made in accordance with all state and local codes. Applying 110 VAC or 220 VAC to a low voltage motor will damage the motor and void the warranty.

External Limit Switches:

- The external limit switch must be installed for warranty to remain active.
- An inflation relief valve is also required on double layer inflated ridge vents for motor warranty to be valid.
- For more information about installing the external limit switch, refer to the instructions that came with the external limit switch, or scan the QR code below.



Scan the QR code
or search

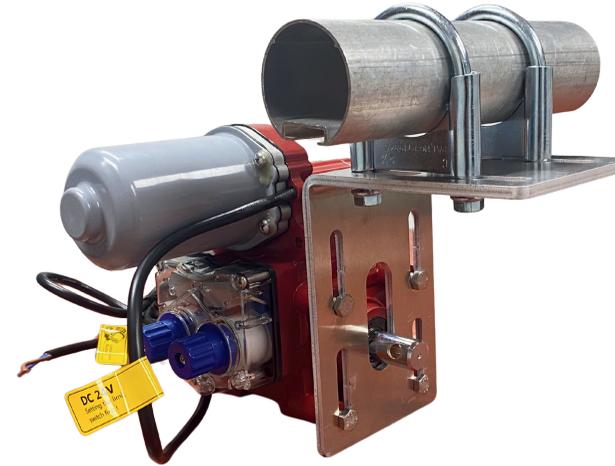
<https://www.advancingalternatives.com/low-voltage-limit-switch/>

Connecting to Controller:

- Low Voltage motors have their direction of rotation changed by reversing polarity. The motor's two wire connection at their power source determine the relationship to "open" and "close" commands. Before attaching the motor to the drive shaft, determine which rotation corresponds to "open" and to "close" at the controller or the controller interface box. Reversing the wire connections will result in the opposite rotation. Connect the motor to the motor's 24-volt power supply and manually switch the motor to open momentarily, to determine if it will rotate to open the vent. If the motor shaft is rotating to close the vent, reverse the wire connections.



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61-LVM-100-SRP

Stationary Rack and Pinion

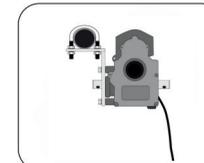
Quick Start Guide

Scan the QR Code to visit our Knowledge Center, which features the full instruction manual and other resources.

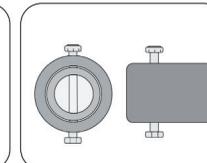


Warranty Registration:
advancingalternatives.com/register

Included:



61-LVM100-2D



65-RBA20M-1.6



61-LSARL-LVM-RP

Recommended for installation:



Impact Gun or Drill



Clamp(s)



For detailed instructions and technical support, visit advancingalternatives.com/knowledge-center

*Breakers Required for Motors

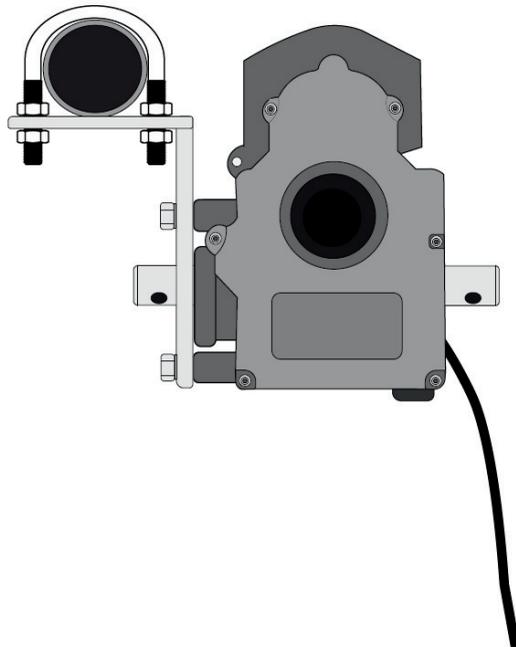
LVM-60: 3A breaker LVM-180: 7.5A breaker
LVM-100: 5A breaker LVM-200: 10A breaker

Preparing to Mount the Motor:

- Before mounting your motor to your structure, you will need to make sure that your motor's output shafts are aligned with the drive shafts.
- Tip: Use quick clamps to help with the install.

Attaching the Bow:

- Attach the motor bracket to the bow of the structure using the provided U-bolt clamps.



Attaching Adapters and Driveshafts:

- Take the adapters provided with your kit and place them in the drive shafts. Drill a hole through the drive shaft and adapter, and secure with the bolt and nut provided with the assembly. *Your kit may contain adapters of a different size/shape/or style depending on what your specifications were. Follow the instructions provided with the adapter to connect to the motor.*

Setting Limit Switches:

- For the installation phase and for testing and setting the limits, or during a power outage, the motors can be run with a DC battery of 20 Volts, 18 Volts or 12 Volts. Using less than the 24 Volts will result in less power and less than normal speed. (Remember, it is only for short duration use for emergency and setting limit switches during installation.) Take the motor wires and place the exposed wiring into the DC battery terminals. Reversing the wires will reverse the polarity, thus changing the direction of the output shaft's rotation. This technique works for setting both EXTERNAL and INTERNAL limit switches.

Internal Limit Switches:

- The LVM-100 SRP motor features adjustment dials on the limit switch housing, allowing you to precisely set the motor's rotational limits. There's one dial for each direction of travel. Each dial controls a cam on the cam wheel, moving it closer to or further from its corresponding switch. As the motor runs, the cam travels towards its switch; once contact is made, the motor will stop. Therefore, moving a cam further from its switch will increase the motor's rotations or travel in that direction. You can observe the very slow movement of the cam wheels through the clear plastic limit switch housing to identify which dial controls which direction (open or close).
 - Attach the motor's output shaft to your ventilation drive shaft or roll bar.
 - Loosen the set screw at the dial you wish to adjust. This enables you to change that rotation's limit.
 - With power applied to the motor, move the cam a short distance away from its switch and towards the opposite dial.
 - Drive your vent in short intervals until your desired fully open or fully closed position is reached. Repeat this process for the opposite direction.
 - Once all limit switch adjustments are complete, be sure to tighten the set screws on both dials securely.
- Safety Note: These motors are powerful and can cause damage or injury. Always ensure the ventilation opening is clear of all obstructions before making adjustments.