Velamp MG303

Velamp 12-Terminal Electrical Strip (MG303) User Manual

Model: MG303

1. Introduction

This manual provides essential instructions for the safe and effective use of your Velamp 12-Terminal Electrical Strip, model MG303. Please read this manual thoroughly before installation and operation, and retain it for future reference. This product is designed for secure electrical connections in various applications.

2. Product Overview

The Velamp MG303 is a 12-terminal electrical strip designed for connecting electrical wires. It is hand-divisible, allowing for customization to suit specific installation needs. Constructed from polypropylene (PP), it offers good flexibility, transparency, extensibility, and resistance to radiation. Each terminal is rated for 4 mm² wire and 3A current, featuring flat-head screws for secure connections. The product is TUV and NF certified, ensuring compliance with French and European safety standards.

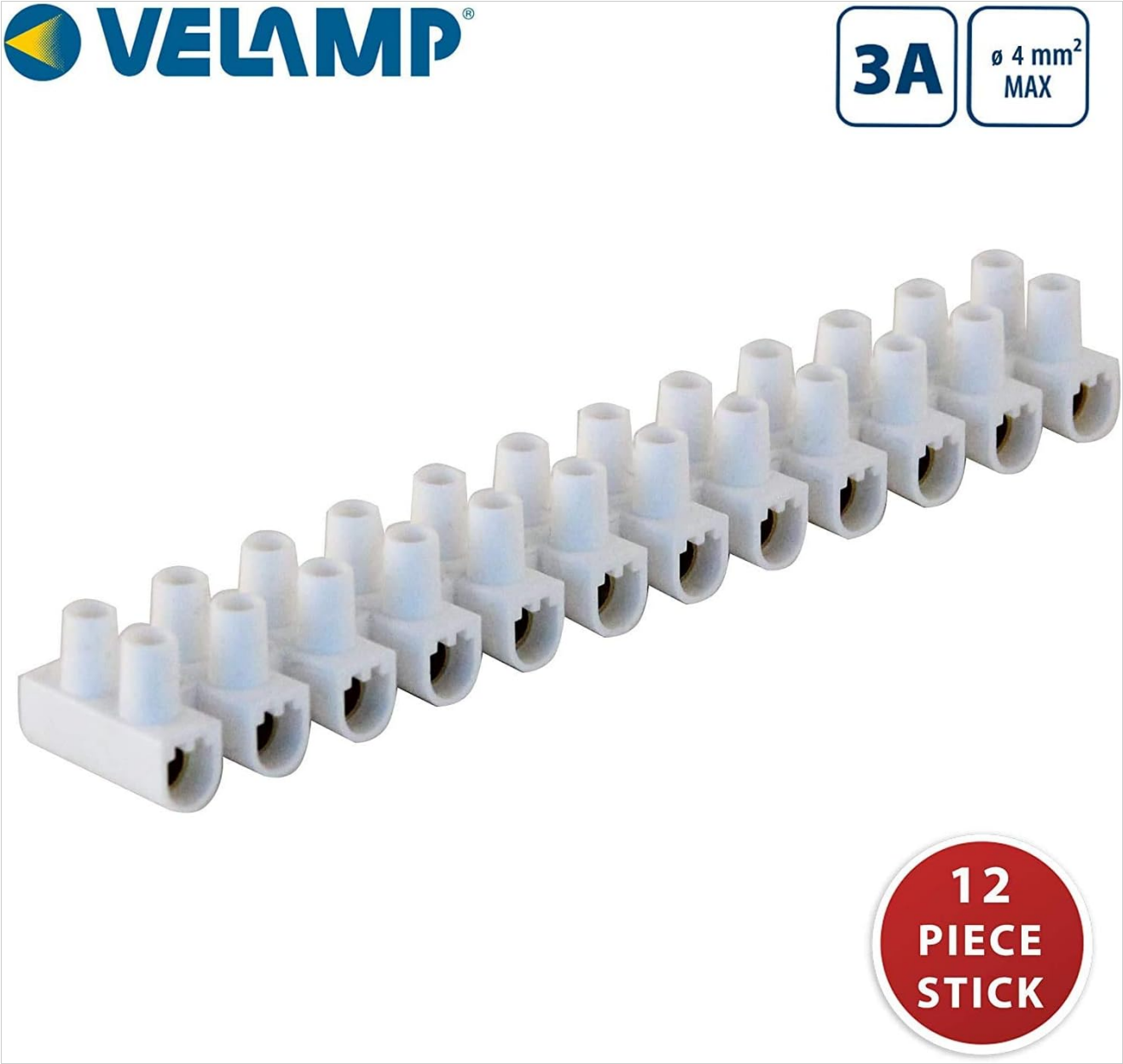

Figure 2.1: Velamp 12-Terminal Electrical Strip (MG303). This image shows the full 12-terminal block, highlighting its compact design and the individual screw terminals. The product is labeled with "3A" and "ø 4 mm² MAX" indicating its electrical ratings, and "12 PIECE STICK" confirming the quantity of terminals.

Key Features:

- **12 Hand-Divisible Terminals:** Easily separate the strip into smaller sections as required.
- **Wire Capacity:** Suitable for wires up to 4 mm².
- **Current Rating:** Rated for a maximum current of 3 Amperes.
- **Secure Connections:** Features flat-head terminal connection screws for reliable wire fastening.
- **Durable Material:** Made from Polypropylene (PP) for flexibility, transparency, extensibility, and radiation resistance.
- **Certified Quality:** TUV and NF certified, meeting stringent safety and quality standards.

3. Safety Information

WARNING: Electrical work should only be performed by qualified personnel. Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always disconnect power at the main circuit breaker or fuse box before installing, servicing, or removing any

electrical components.

- Verify that the power is off using a voltage tester before touching any wires.
- Ensure that the electrical strip's ratings (4 mm², 3A) are appropriate for your application. Do not exceed these limits.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Ensure all wire connections are tight and secure to prevent loose connections, which can cause overheating or arcing.
- Do not use the product if it appears damaged or defective.
- Keep out of reach of children.

4. Setup

4.1 Unpacking and Inspection

Carefully remove the terminal strip from its packaging. Inspect the product for any signs of damage. If any damage is found, do not use the product and contact your supplier.

4.2 Preparing the Terminal Strip

1. Determine the required number of terminals for your application.
2. The strip is designed to be hand-divisible. Gently bend and snap the strip at the desired points to separate individual or groups of terminals.
3. Ensure the cut edges are clean and free from burrs.

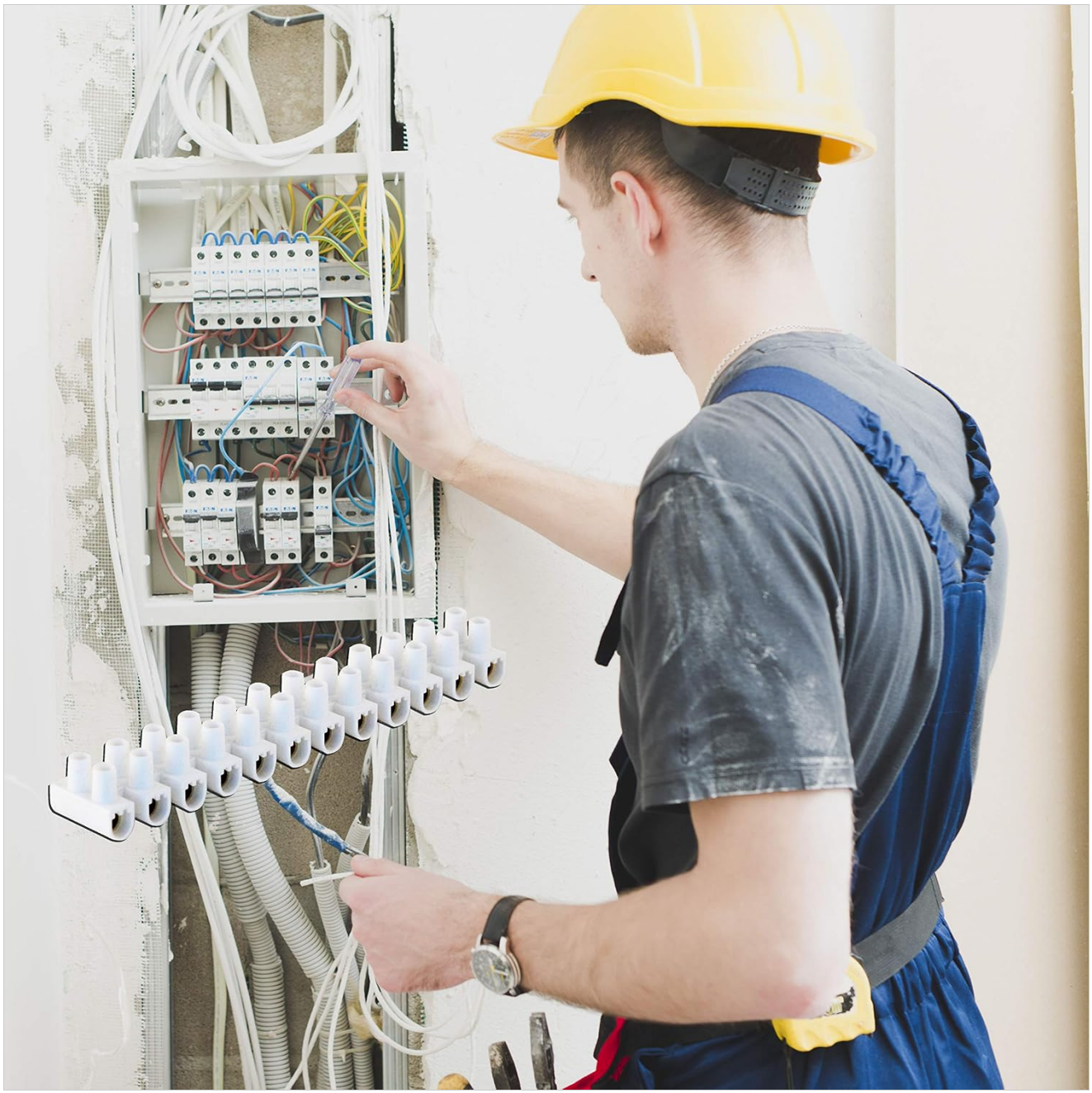

Figure 4.1: An electrician working with electrical wiring and terminal blocks. This image illustrates a typical installation environment where terminal blocks are used to organize and connect wires within an electrical panel or junction box. The professional is wearing appropriate safety gear, including a hard hat.

4.3 Mounting (Panel Mount Type)

The Velamp MG303 is designed for panel mounting. Secure the terminal strip to a suitable surface using appropriate fasteners (not included) through the designated mounting holes, if present, or by securing the body of the strip in a suitable enclosure or clamp.

5. Operating Instructions

Follow these steps to make secure electrical connections:

1. **Prepare Wires:** Strip approximately 6-8 mm of insulation from the end of each wire to be connected. Ensure the exposed conductor is clean and free of frayed strands.
2. **Loosen Screws:** Using a flat-head screwdriver, loosen the terminal screws on the desired connection points of the terminal strip.
3. **Insert Wires:** Insert the stripped end of the first wire into one side of a terminal opening. Insert the stripped

end of the second wire (or the other end of the same circuit) into the opposite side of the same terminal opening. Ensure the wire is fully inserted and no bare conductor is exposed outside the terminal.

4. **Tighten Screws:** Firmly tighten the terminal screws with the flat-head screwdriver. Do not overtighten, as this can damage the terminal or wire. Gently tug on the wires to confirm they are securely held and cannot be pulled out.
5. **Repeat:** Repeat the process for all necessary connections.
6. **Verify:** After all connections are made, double-check all screws for tightness and ensure no bare wires are touching each other or any conductive surfaces.

IMPORTANT: Always ensure proper polarity and circuit integrity when making connections.

6. Maintenance

The Velamp MG303 terminal strip requires minimal maintenance. Regular inspection is recommended to ensure continued safe operation.

- **Periodic Inspection:** Periodically check all connections for tightness. Vibrations or temperature changes can sometimes cause screws to loosen over time.
- **Cleaning:** If necessary, clean the terminal strip with a dry, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Environmental Conditions:** Ensure the terminal strip is not exposed to conditions beyond its operating specifications, such as excessive moisture, extreme temperatures, or corrosive environments, unless specifically designed for such conditions.

7. Troubleshooting

This section addresses common issues you might encounter with the terminal strip.

Problem	Possible Cause	Solution
Loose wire connection	Screw not tightened sufficiently; wire not fully inserted.	Disconnect power. Re-insert wire fully and tighten screw firmly. Verify connection.
Overheating at terminal	Loose connection; current exceeding 3A rating; wire size too small for current.	Disconnect power. Check all connections for tightness. Ensure current does not exceed 3A and wire size is appropriate (max 4 mm^2). Replace if damaged.
Difficulty inserting wire	Wire strands frayed; insulation not stripped correctly; wire size too large.	Ensure wire strands are twisted tightly. Re-strip wire if necessary. Verify wire size is within 4 mm^2 limit.

If you encounter issues not listed here or if solutions do not resolve the problem, consult a qualified electrician.

8. Specifications

Brand	Velamp
Model Number	MG303
Number of Terminals	12 (hand-divisible)

Max Wire Size	4 mm²
Max Current Rating	3 Amperes
Connector Type	Screw Terminal (Flat-head)
Material	Polypropylene (PP)
Color	White
Dimensions (L x W x H)	9.2 x 1.5 x 1.2 cm (approx. for full strip)
Weight	10 grams (approx. for full strip)
Installation Type	Panel Mount
Certifications	TUV, NF (French Standards)
Country of Origin	China

9. Warranty and Support

Velamp products are manufactured to high-quality standards. For specific warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer. Information regarding spare parts availability and software updates is not provided for this product.

For technical support or inquiries, please visit the official Velamp website or contact their customer service department. Always provide the model number (MG303) when seeking support.

Figure 9.1: Velamp company logo. This logo represents the manufacturer of the terminal strip, providing brand identification for support inquiries.