Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

DAVITU MG/KF/GZ 300-5.0MM

Instruction Manual for Davitu Screw Type PCB Terminal Blocks

Brand: DAVITU

1. Introduction

This manual provides essential information for the safe and effective use of your Davitu Screw Type PCB Terminal Blocks. Please read these instructions carefully before installation and operation to ensure proper functionality and to prevent damage.

2. Product Overview and Features

The Davitu Screw Type PCB Terminal Blocks are designed for reliable electrical connections on printed circuit boards. These blocks feature a robust screw-type mechanism for secure wire termination and are made from high-quality copper for optimal conductivity and environmental resistance.

- **Screw Type Connection:** Ensures a firm and stable connection for various wire gauges.
- **Material:** Constructed with copper (copper plated) for excellent electrical performance and durability.
- **Configurations:** Available in 2-pin (2P) and 3-pin (3P) configurations, which can be stitched together for longer connections.
- **Pitch:** Standard 5.0MM pin pitch, compatible with common PCB layouts.
- **Application:** Ideal for industrial electrical applications, wiring, and connecting components.

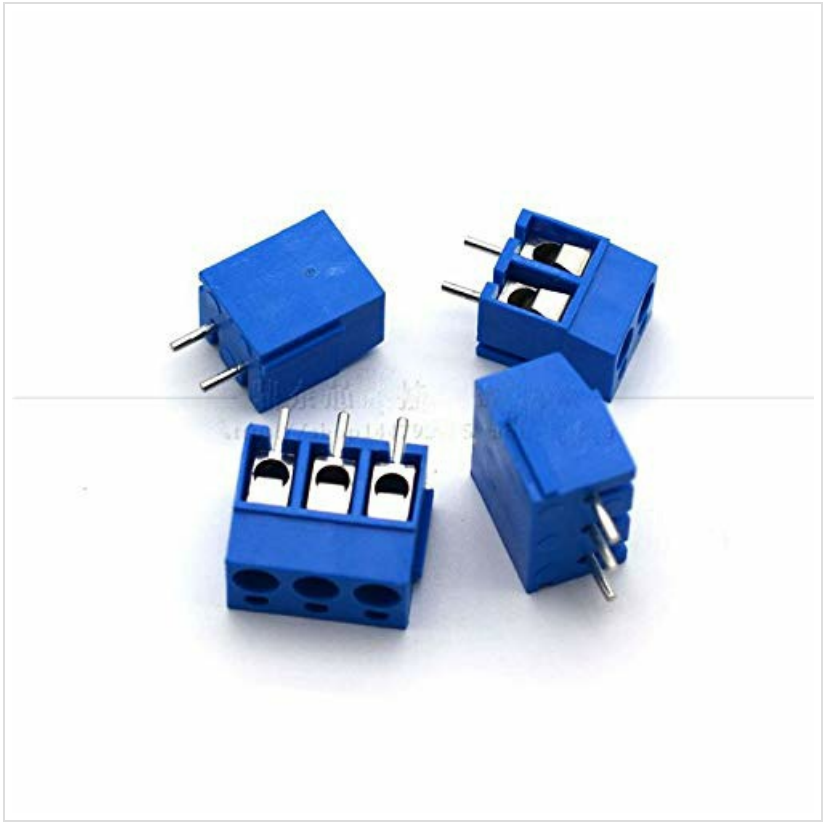


Image 2.1: Assortment of Davitu 2P and 3P PCB terminal blocks. These blocks are commonly used for connecting wires to circuit boards.



Image 2.2: Close-up of two 2-pin Davitu terminal blocks, highlighting the screw terminals and pin connectors.

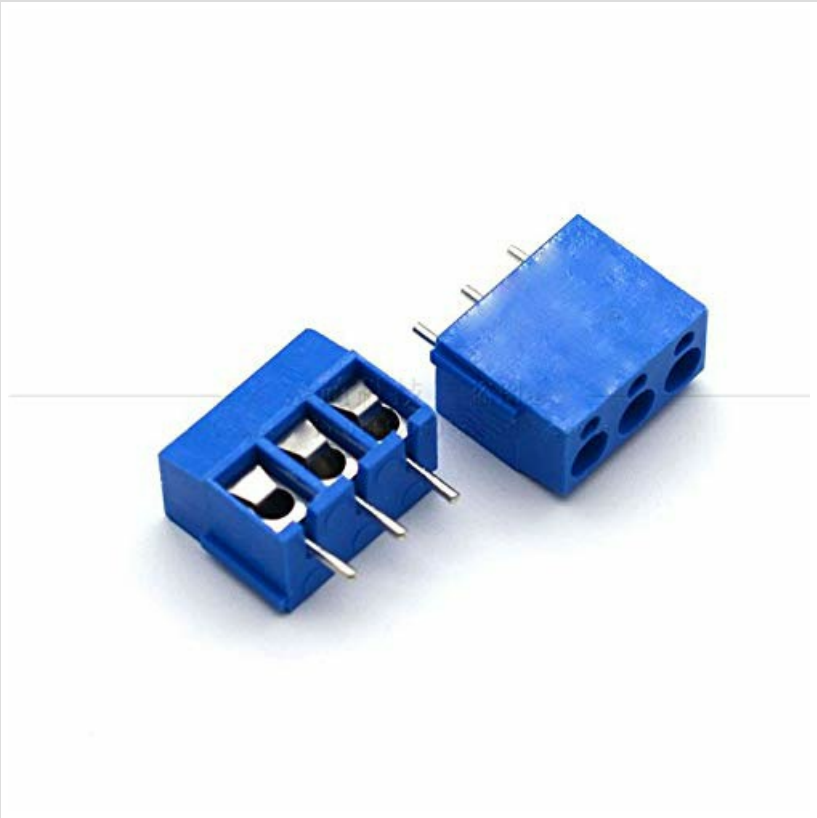


Image 2.3: Close-up of two 3-pin Davitu terminal blocks, showing the three screw terminals and corresponding pins.

3. Specifications

Attribute	Detail
Model Series	MG/KF/GZ 300-5.0MM
Material	Copper (Copper Plated)
Brand	DAVITU
ASIN	B07QS5S1ZW
Manufacturer	Onvas
UPC	760274559337
Pin Configurations	2P (2-pin), 3P (3-pin) - stitchable
Pin Pitch	5.0MM

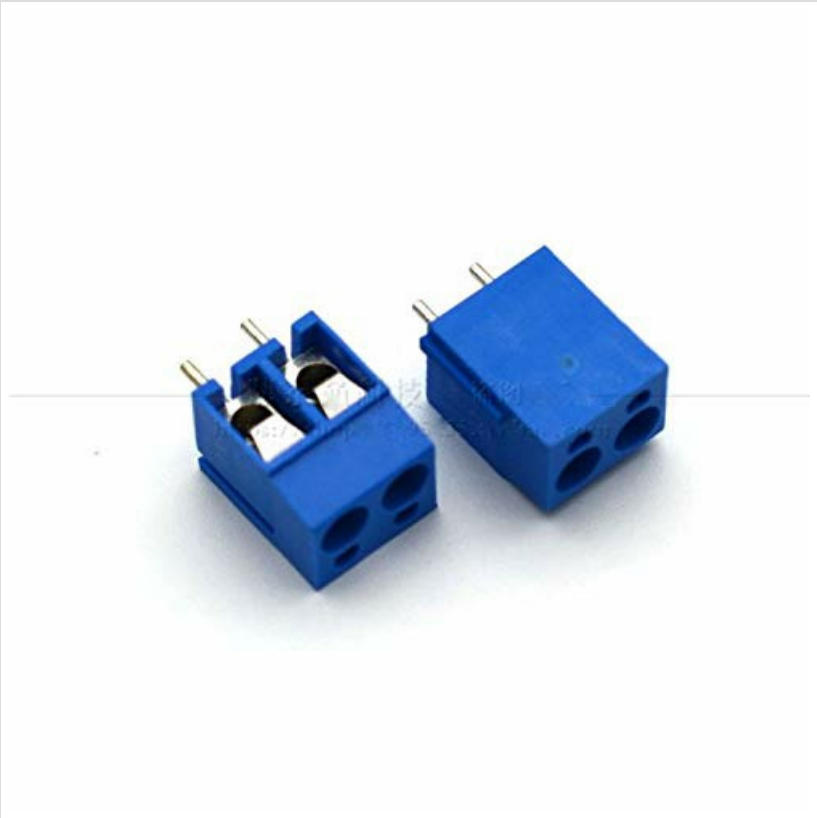


Image 3.1: Technical drawing illustrating the dimensions and pin configuration for the KF300-5.0 terminal block series.

4. Setup and Installation

Proper installation is crucial for the performance and safety of your electrical connections. Follow these general steps for installing the PCB terminal blocks:

1. **Prepare the PCB:** Ensure your printed circuit board has pre-drilled holes matching the 5.0MM pin pitch of the terminal blocks.
2. **Insert Pins:** Carefully align the metal pins of the terminal block with the corresponding holes on the PCB and insert them.
3. **Solder Connections:** Solder the pins to the PCB pads to create a secure electrical and mechanical connection. Ensure good solder joints without bridges.
4. **Prepare Wires:** Strip approximately 5-7mm of insulation from the end of the wires you intend to connect. Ensure the wire strands are neatly twisted.
5. **Insert Wires:** Loosen the screw terminal using a suitable screwdriver. Insert the prepared wire into the terminal opening.
6. **Secure Wires:** Tighten the screw firmly to secure the wire within the terminal. Do not overtighten, as this can damage the wire or the block. Gently tug on the wire to confirm it is securely fastened.
7. **Stitching (Optional):** If using multiple 2P or 3P blocks to form a longer strip, ensure they are properly aligned and interlocked before soldering to the PCB.

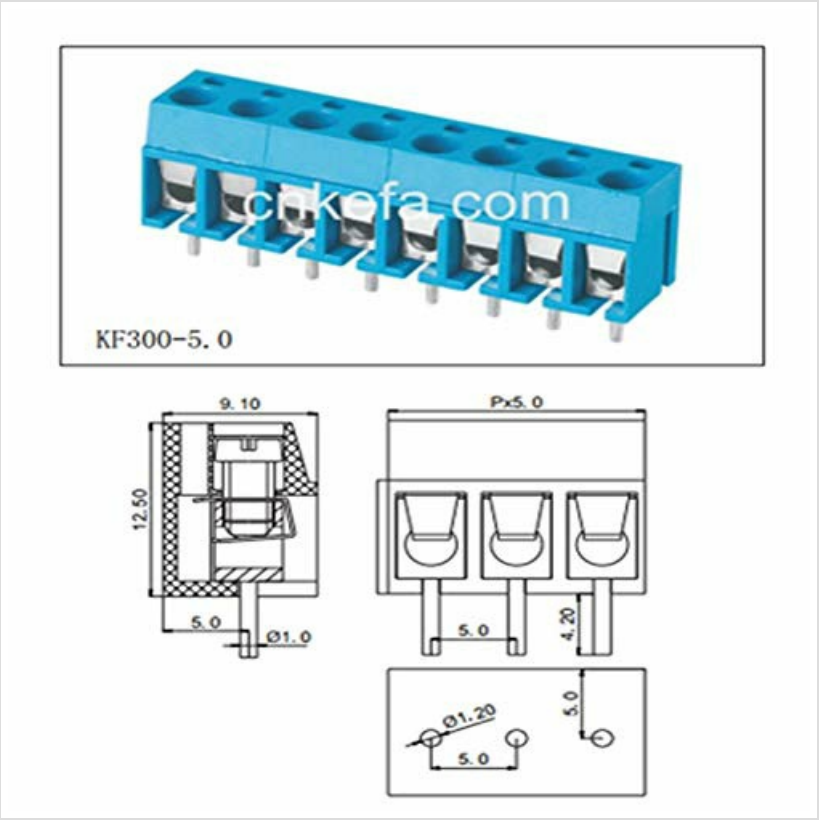


Image 4.1: A 2-pin terminal block, illustrating the component ready for insertion into a PCB.

5. Operation

Once installed and wired, the Davitu PCB Terminal Blocks provide a stable and reliable connection point for your electrical circuits. Their operation is passive, serving as a conduit for electrical signals or power.

- **Secure Connection:** The screw mechanism ensures a strong mechanical and electrical connection, minimizing resistance and preventing accidental disconnections.
- **Reusability:** Wires can be easily disconnected and reconnected by loosening and tightening the screws, allowing for flexibility in circuit modifications or repairs.
- **Environmental Stability:** The copper material provides good resistance to environmental factors, ensuring long-term performance.

6. Maintenance

These terminal blocks are designed for durability and require minimal maintenance. However, periodic checks can help ensure continued optimal performance:

- **Visual Inspection:** Periodically inspect the terminal blocks for any signs of physical damage, corrosion, or discoloration.
- **Connection Check:** Gently check the tightness of the screw connections. Over time, vibrations or temperature changes can sometimes cause screws to loosen slightly. Retighten if necessary, but do not overtighten.
- **Cleaning:** If dust or debris accumulates, gently clean the blocks with a soft, dry brush or compressed air. Ensure power is disconnected before cleaning.

7. Troubleshooting

Most issues related to terminal blocks stem from improper installation. Consider the following if you encounter problems:

- **No Electrical Connection:**

- Check if the wire is fully inserted into the terminal and the screw is tightened securely.
- Ensure the wire insulation was stripped sufficiently to allow the conductor to make contact.
- Verify that the terminal block pins are properly soldered to the PCB.

- **Intermittent Connection:**
  - Retighten the screw terminals.
  - Inspect the wire for any damage or frayed strands that might be causing poor contact.
  - Check for cold solder joints on the PCB.

- **Physical Damage:**
  - If the plastic housing is cracked or the metal parts are bent, the block may need replacement.

8. Warranty and Support

For specific warranty information regarding your Davitu Screw Type PCB Terminal Blocks, please refer to the purchase documentation or contact the seller directly. Warranty terms typically cover manufacturing defects.

If you require technical support or have questions not covered in this manual, please contact the manufacturer, Onvas, or your product supplier for assistance. Provide your product model (MG/KF/GZ 300-5.0MM) and ASIN (B07QS5S1ZW) when seeking support.

© 2023 DAVITU. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B07QS5S1ZW

More documents and user manuals: **https://manuals.plus/**