

# Datasheet for 76650-0233

## General Information

|                           |  |
|---------------------------|--|
| <b>Kit Part Number:</b>   | 76650-0233                                       |
| <b>Connector Type:</b>    | Terminal Blocks                                  |
| <b>Solution:</b>          | Off the Board Terminal Block                     |
| <b>Molex Family:</b>      | Beau® Eurostyle®, ESE , Eurostyle™ Barrier Strip |
| <b>Certificates:</b>      | N/A  |
| <b>Country of Origin:</b> | Kit assembled in U.S.A                           |

## Specifications

|                          |   |
|--------------------------|---|
| <b>Circuit Size:</b>     | 2, 3, 4   |
| <b>Current Rating:</b>   | 15A, 20A, 60A   |
| <b>Mounting Style:</b>   | PCB Header, PCB Through Hole, Screw Mounted, Vertical PCB Block                 |
| <b>Pitch:</b>            | 10.16mm (.400"), 11.1mm (.438"), 5.00mm (.197"), 5.08mm (.200"), 8.00mm (.315") |
| <b>Rows:</b>             | Dual Row, Single Fixed (one-piece), Single Pluggable (two-piece)                |
| <b>Style/Mount:</b>      | Screw Mounted, Vertical PCB Block   |
| <b>Voltage Rating:</b>   | 300V, 600V  |
| <b>Wire Gauge (AWG):</b> | 18-10, 20-14, 22-12, 26-12  |

## Product Highlights

ESE terminal blocks provide economic benefits and enhance Molex's existing Eurostyle™ terminal block offering. A wiring technique that is attractive for marketing requirements, as well as, easy for users to access, can greatly improve the success of end products that use power terminal blocks. All Two-Screw terminal strips meet applicable industry standards and have a flammability rating of UL 94V-2. In addition, they are designed with wire protectors to prevent wire damage and to ensure a reliable connection. Pre-drilled mounting holes allow for quick and easy installation in the field. Design engineers are looking to bring more power directly to the PCB, instead of using other costly and time-consuming methods, such as ring cable lugs or customized DIN-rail terminal blocks.

### Features and Benefits

- Modular design allows larger blocks to be easily cut into smaller circuit sizes
- Contacts and screws are recessed in the housing to help prevent short circuits
- Rising cage clamp wire termination provides secure, reliable contact
- Multiple PCB terminals distribute power more evenly, reducing "hot spots"
- Extended wire funnel entry surrounds the wire insulator, eliminating exposed wire strands and possible shorting
- Fixed or pluggable product styles allow for maximum design flexibility
- Captive screws in all terminal blocks mean that screws will not back out of housing or mounting ends
- High temperature housing to withstand lengthy solder pre-heat conditions

### Applications

- Power supplies
- Industrial Applications
- Motor controls
- HVAC equipment
- Lighting controls
- Security/fire alarm systems

- Measurement and Control Systems
- Elevators
- Spa controls
- Fuel cells
- Solar power
- Irrigation Systems
- Factory and Process Automation
- Traffic controls
- Audible/visual warning systems

**Bill of Materials**

| <b>Molex Part No.</b> | <b>Description</b>   | <b>Quantity</b> |
|-----------------------|--|-----------------|
| 39531-1002            | 2-Way 5.08mm (.200") ESE Vertical Header Terminal Block                          | 3               |
| 39100-0804            | 4 Circuit, 8.00mm (.315") Eurostyle™ PCB, White Terminal Strip                   | 3               |
| 39531-1004            | 4-Way 5.08mm (.200") ESE Vertical Header Terminal Block                          | 3               |
| 39533-2003            | 3-Way 5.08mm (.200") ESE Vertical Plug Terminal Block                            | 3               |
| 39544-3002            | 2 Circuit, Vertical Mount PCB Terminal Block                                     | 3               |
| 39970-0102            | 2 Circuit, 10.16mm (.400") Beau™ Eurostyle™ Fixed Mount, PCB Terminal Block, 60A | 2               |
| 39970-0104            | 4 Circuit, 10.16mm (.400") Beau™ Eurostyle™ Fixed Mount, PCB Terminal Block, 60A | 1               |
| 39544-3003            | 3 Circuit, Vertical Mount PCB Terminal Block                                     | 3               |
| 39531-1003            | 3-Way 5.08mm (.200") ESE Vertical Header Terminal Block                          | 3               |
| 39533-2002            | 2-Way 5.08mm (.200") ESE Vertical Plug Terminal Block                            | 3               |
| 39533-2004            | 4-Way 5.08mm (.200") ESE Vertical Plug Terminal Block                            | 3               |
| 39544-3004            | 4 Circuit, Vertical Mount PCB Terminal Block                                     | 3               |
| 39970-0103            | 3 Circuit, 10.16mm (.400") Beau™Eurostyle™ Fixed Mount, PCB Terminal Block, 60A  | 1               |
| 39100-0803            | 3 Circuit, 8.00mm (.315") Eurostyle™ PCB, White Terminal Strip                   | 3               |
| 38780-0102            | 11.1mm (.438") Pitch Beau™ Double Row Barrier Strip, 2 Circuits                  | 2               |
| 38780-0103            | 11.1mm (.438") Pitch Beau™ Double Row Barrier Strip, 3 Circuits                  | 1               |
| 38780-0104            | 11.1mm (.438") Pitch Beau™ Double Row Barrier Strip, 4 Circuits                  | 1               |

**Recommended Molex Tool**

| <b>Molex Part No.</b> | <b>Description</b> |
|-----------------------|--------------------|
|-----------------------|--------------------|