

**Electrical requirements for:  
Electrical equipment manufactured for  
Schneider Electric Automation GmbH  
Marktheidenfeld**

1. The electrical equipment of machines and electrical test systems must be in line with all legal requirements and standards (e. g. DIN standards) applicable in Germany.

For the electrical equipment of machines and electrical test systems, for which DIN EN 60204-1 (VDE 0113-1) is not applicable, the associated VDE regulations apply.

2. The provisions of DIN EN 50191 (VDE 0104) must be respected for electrical test equipment. The related usage and application of the test system needs to be clarified with the client on each purchasing order.
3. The grid connection is single-phase or three-phase 230/400V, 50 Hz (connection to a TN-C system), unless otherwise stated in the order.
4. Cabling to be executed with the following wire colors:

power path AC / DC	black
neutral conductor	light blue
protective conductor	green/yellow
control voltage 230 V/AC	red
control voltage 0 V/AC	red-white (neutral conductor, light blue)
control voltage 24 V/AC	brown
control voltage 24 V/DC	dark blue / ultramarine blue
control voltage 0 V/DC	dark blue / ultramarine blue with white stripe
control voltage 12 V/DC	gray
external voltage	orange
measurement cables	white
safety circuits	emergency stop: orange

Table: Core colors of cables, internal default Schneider Electric Automation GmbH Marktheidenfeld

5. Conductive stranded connections are to be manufactured using insulated cable end-sleeves in accordance to DIN-colour code, DIN 46228, or insulated solderless terminals in ring-, pin- or fork type. This does not apply if the terminal can accommodate unprocessed cable end due to their design (spring terminal).
6. For test equipment, designed for experimental fields, the following applies: Buttons for emergency stop and safety stop devices, which are not integrated into the existing on-site emergency stop system, must have a black instead of a yellow background. This needs to be clarified with the client prior to the placing of the firm order.

A currently valid declaration of conformity including all necessary technical documentation, risk analysis and risk assessment as well as the inspection report of the passed inspection according to DIN EN 60204-1 (VDE 0113-1), DIN VDE 0100-600 VDE 0100-600 or DGUV Vorschrift 3 (formerly BGV A3) must be included in the documentation.

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