

H&H provides the Alfred Kärcher GmbH & Co. KG with ZSAC series electronic AC loads.

Among other things H&H systems are used to test industrial and domestic vacuum cleaner systems, steam cleaners, pressure washers and water pumps.



This application report was produced
in association with Kärcher GmbH & Co. KG

Customer Application #3

Safety for Cleaning Systems

Electronic AC loads with 260V and 440V are being applied.
Therefore the power lies between 2.8kW and 8.4kW .

The Alfred Kärcher GmbH & Co. KG is a worldwide acting vendor of cleaning systems and cleaning products for leisure, household and industry.

Most of the systems produced by Kärcher are connected to the power supply via a mains cable. Therefore a conformity of the products with legal safety requirements to avoid personal injury is very important. The verification of these safety requirements is realized with electronic AC loads of the ZSAC series.

The industrial vacuum cleaners from Kärcher are furnished with an additional socket e.g. for a drill. If the drill is activated an input electronic will start the industrial vacuum cleaner. Additionally, it is necessary to check the maximum power which can be provided to a load by the vacuum cleaner. With the aid of the electronic AC loads of the series ZSAC it is possible to simulate different loads and thus the socket and the input electronic is checked.

Tests

- Test of the mains cable due to IEC EN 60335-1
- Load of control transformers
- Load of connectors with defined load currents
- Test of a vacuum cleaner's inrush electronic
- Simulation of inrush current of different tools

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