

Manufacturer's declaration on Short Circuit protection to PE for Variable Speed Drives (VSD)

Securing protection against electric shock when using Schneider Electric Altivar variable Speed drives, Altivar range, ATV12 series, (0.18kW to 4kW, 230V) according to EN/IEC61800-5-1

Manufacturer's declaration for initial verification according to IEC/HD 60364-6 (DIN VDE 0100-600; VDE 0100-600) and for follow up testing according to EN 50110-1 (DIN VDE 0105-100; VDE 0105-100)

TN System:

Fault protection according to IEC/HD 60364-4-41 (DIN VDE 0100-410; VDE 0100-410) for motor output circuits of above mentioned equipment is secured under the following conditions:

- The above mentioned equipment is installed according to the safety instructions of the manual.
- The installation meets the requirement of applicable standards of the IEC/HD 60364 (DIN VDE 0100; VDE 0100) series.
- The continuity of all associated PE and equipotential bonding conductors is secured including the bonding and connection points.

The above mentioned equipment complies with the protection measure "automatic disconnection of the supply" according to IEC/HD 60364-4-41 (DIN VDE 0100-410; VDE 0100-410):2007-06 clause 411.3.2.5 if above mentioned requirements are fulfilled.

This is based on following principle:

In case of a short circuit with negligible impedance to a PE conductor or against earth the above mentioned equipment will reduce the motor output voltage within a time which is required by table 41.1 of IEC/HD 60364-4-41 (DIN VDE 0100-410; VDE 0100-410):2007-06.

TT System:

- The use of RCD's or supplementary protective bonding according to IEC60361-4-41 clause 415 is required.

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