



Power Protection Press Release

Active power filter is rack- or wall-mounted

The Ablerex Enersine ESD34 series of active power filters are modular, thus allowing maximum harmonic current compensation to 960 amps per phase, from a minimum of 30 amps. The filters are suitable for operation in LV three-phase 50 or 60 Hz networks and harmonics attenuation factors are typically of the order of 10 (20dB) or greater.

The Ablerex Enersine ESD34 active power filters are suitable for three-phase, three- and four-wire reticulation. They are therefore able to compensate triple harmonics and unbalanced harmonics flowing in the neutral conductor. Neutral current compensation is possible from a minimum of 90 amps to 2900 amps.

The Ablerex Enersine ESD34 active power filters compensate for even and odd harmonics to the 51st order. Up to 12 harmonics can be programmed for compensation thus allowing for tailoring of the harmonics compensation task to specific applications.

The filters are also highly responsive, adapting the compensation pattern within 2 cycles. The Enersine filters are therefore highly suitable for the compensation of dynamic loads, for the compensation of inrush current, and for power factor improvement in the range of 0.7 lagging to 0.7 leading.

The Ablerex Enersine ESD34 active filters are available as rack- or wall-mounted units. Up to four harmonic power compensation modules can be placed into the mainframe, which also contains the control unit. The individual power modules operate in parallel and up to 8, in total, mainframes, each with its control module, can be placed in parallel. Individual harmonic power compensation units can compensate for 30 amps per phase and 90 amps per neutral.

The Ablerex Enersine ESD34 filters have easy-to-use control panels, indicating the status of individual power modules including alarm conditions. An optional control panel also provides graphical display of harmonics being compensated in barograph format as well as THD, PF, voltage, current and kVA. Standard communication ports include serial RS232 interfaces and a USB port in addition to dry relay contacts. Optional interfaces include RS485/422 and an Ethernet card. A Windows-based software package, ESD-Link34, is available providing parameters control as well as waveform and harmonic spectrum information.



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