Line/Load Reactors

Application Notes

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Product Overview Detailed Product Data Selection Tables Specification Table

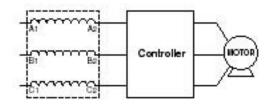
Application Notes

Declaration of Conformity Technical User Manuals Product Brochure Selection Brochure

Applying Line/Load Reactors

Input to Inverter/Drive:

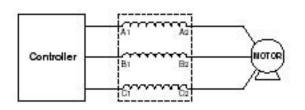
On the input of an electronic motor speed controller, line reactors protect sensitive electronic equipment from electrical noise created by the drive or inverter (notching, pulsed distortion, harmonics). They also protect the controller from surges or spikes on the incoming power lines, as well as reduce harmonic distortion. They help to meet the requirements of IEEE 519.



Output of Inverter/Drive:

In long motor lead applications use reactors (IGBT) protected) between the inverter and motor to reduce dv/dt and motor terminal peak voltage. The use of a load (output) reactor also protects the controller from a surge current caused by a rapid change in the load, and even from a short circuit at the load.

Our reactors also reduce operating temperature and audible noise in motor loads. Harmonic compensation and IGBT protection of all MTE reactors allows standard units to be used here with confidence. They improve the waveform integrity, thus enhancing motor performance and system efficiency.



Multiple Controllers:

Multiple drives or inverters on a common power line require one reactor per controller. Individual reactors provide filtering between each controller (reduce crosstalk) and also provide optimum surge protection for each unit. A single reactor serving several controllers does not provide adequate protection, filtering or harmonic reduction when the system is partially loaded.

