

ecoload
Generation

Ecological braking resistors by REO

Load, damping or braking resistors are essential parts of modern drive systems. They are used to filter overvoltage or to absorb surplus energy which results from braking of drive applications. This works by converting electrical energy to heat.

So far the surplus energy got lost unused which is incompatible with modern aspects of the ecological use of the available energy. The REO ecoload generation sets new standards and allows the efficient utilisation of brake energy by use of a technique which has been refined by REO.

For this, REO presents three different ways:

1.) Ecoload Classic:

Reconversion of temperature into electrical energy. The REO ecoload classic provides the required load to reduce energy and furthermore provides the possibility to retrieve electrical energy, which can be fed back into the circuit by using a regenerative unit.

The field of application for the ecoload Classic are alternative energies, like small wind turbines.

2.) Ecoload Therm:

Utilisation of dissipated heat as useful heat which can be used, for example, for heating of drinking water and in heatings. Here the typical application fields are applications with high duty cycles, such as escalators.

3.) Ecoload Dyn:

Recovered brake energy is stored by the ecoload Dyn in condensers and is delivered if necessary. Dynamic processes can compensate themselves, because the resulting brake energy is available for the next acceleration phase again. If nevertheless too much energy is fed back, a braking resistor can be used as a safety limit.

The area of application for ecoload Dyn is everywhere where high braking and start-up times occur, e.g. in storage systems.



Ecoload Generation - A real plus for the efficient use of energy.



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