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Product News

Information

Product News

Regenerative Power Compensator "SANUPS K23A" Saving Energy for Conveyor Systems

Aug. 10, 2011

SANYO DENKI CO., LTD. has developed the Regenerative Power Compensator "SANUPS K23A" that helps reduce the power consumption of conveyor systems used in multi-level parking garages and other facilities.
When a motor used in a conveyor system slows down, electric energy called regenerative power is generated. This energy is stored in an electric double-layer capacitor and reused as the driving force. Thus energy for conveyor systems can be saved.

Features

1. Saving Energy

When a motor used in the conveyor system of a multi-level parking garage or other facility slows down, electric energy is generated. This energy is called regenerative power, which is usually wasted as it is consumed as heat. The SANUPS K23A stores this energy in an electric double-layer capacitor and reuses it as the driving force (see fig. 1 and 2). Thus energy for conveyor systems can be saved.

2. Displaying Energy-saving Effects on Monitor

The amount of reused regenerative power and remaining amount of stored energy can be displayed on the monitor. Thus energy-saving effects can be viewed easily and remotely.

Fig. 1: Mechanism of this Device

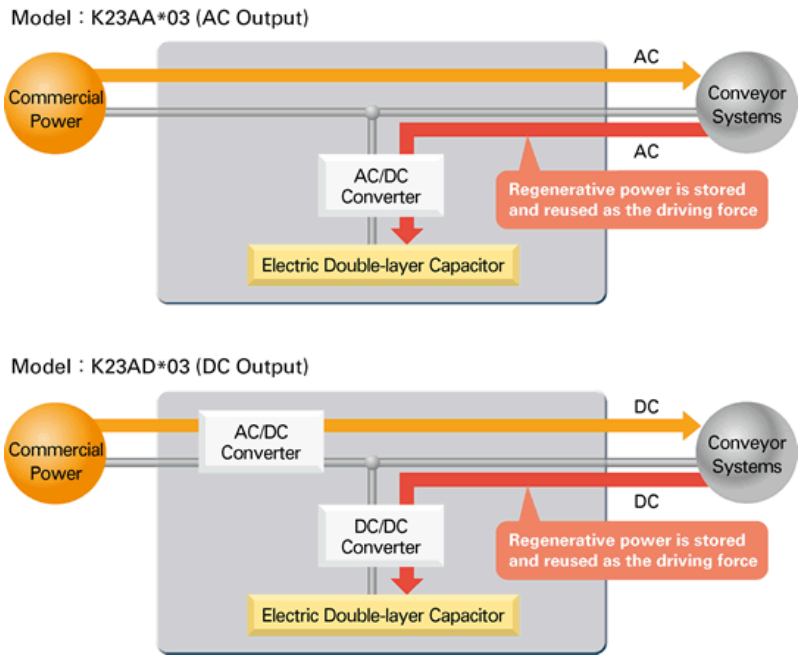
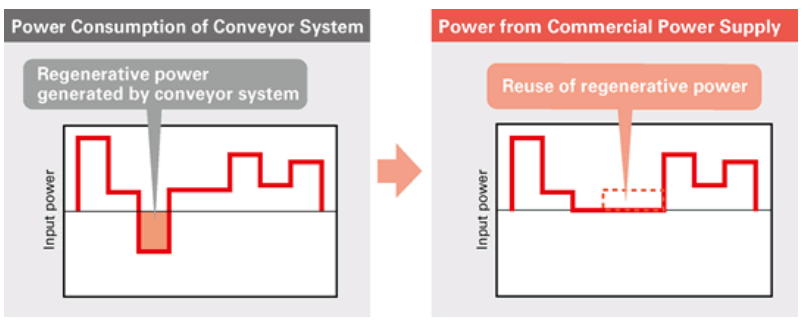


Fig. 2: Power Regeneration



Specifications

Input	Output electrical system	Three-phase 3-wire system			
	Rated voltage	200 V			
	Rated frequency	50/60Hz			
Output		AC		DC	
Acceptable motor flange size		75 kW	150 kW	20 kW	40 kW
Continuous regenerative power		30 kW (Continuation for 60 seconds)	60 kW (Continuation for 60 seconds)	30 kW (Continuation for 60 seconds)	60 kW (Continuation for 60 seconds)
Storage device		Electric double-layer capacitor			
Option		Monitoring of energy regeneration, etc.			
Model		K23AA203	K23AA403	K23AD203	K23AD403

Release Date

August 10, 2011

Applications

Multi-level parking garage with elevators, parking system, stacker crane, etc.

▪ **Electric double-layer capacitor**
This is one type of storage battery for storing electric energy, which can charge and discharge a large current rapidly and has a long life because it is highly resistant to deterioration. It is also environmentally friendly because it does not use any heavy metal.

*The information in this release is current as of Aug. 10, 2011.
“ SANUPS ” is a trademark of SANYO DENKI CO.,LTD.

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