

## KCM-P: Back-up energy for drives

The static energy storage device KCM-P protects against damage from temporary power failures

- ▶ **Trouble-free bridging of short downtimes or allows it to run down in the defined operating stop**
- ▶ **High output reserves due to cascadable expansion modules**
- ▶ **Easy refitting on all Kollmorgen servo controllers, no need for adjustment, ready for use right away**



**KCM-P: The static energy store reduces downtimes and increases productivity**

- Secures productivity through uninterrupted operation during short-term power failures
- The machine restarts quickly: KCM-P provides the drive with energy after a power failure until the machine has reached a defined state after stop.
- Easy system integration: A power failure signal is emitted on the digital interface for evaluation by the machine control
- Easy connection to the DC-link with two cables.
- Easy commissioning - ready for use right away, no need for alignment or control elements
- The smooth loading routine doesn't strain the converter and doesn't generate any circuit feedback
- Nearly unlimited power output range due to cascadable expansion modules

A stable power supply is the basis for the safe operation of machines, for high productivity and first-class quality. The Kollmorgen static energy storage device KCM-P bridges temporary power failures or provides the drive with energy for controlled run down in the defined operating stop. Minimal downtime and protection of the machine and the workpiece from damage: KCM-P is the back-up energy for single and multi-axis drives.

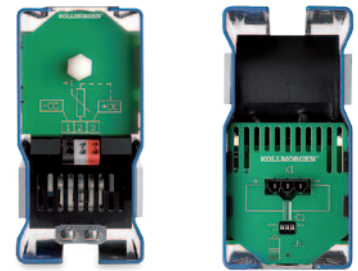
# KCM-P: The temporary USV for drives

## The energy reserve ensures safe operation

The static energy storage device KCM-P expands the capacity of the converter in the DC-link. It holds a certain amount of energy that keeps the voltage on the DC-link to an operational level for a defined amount of time during power failures.

After switching on the converter the energy store is charged in a controlled manner by a loading routine and is ready for use after around 8 seconds. The smooth loading routine does not strain the converter's charging connection and does not generate any negative circuit feedback.

During power failures, the digital interface emits a signal for evaluation and introducing more measures by the machine control.

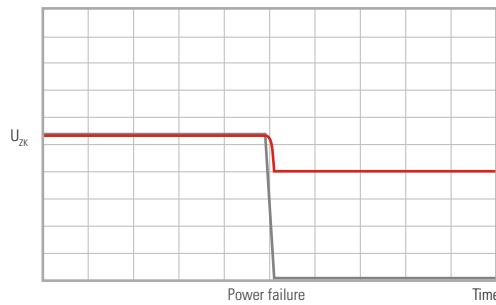


KCM-P is simply connected in parallel to the DC-link of the converter. During power failures, a signal is emitted on the digital interface for evaluation by the machine control.

Voltage on the DC-link

— without KCM-P

— with KCM-P



## For high energy requirements: Expansion modules KCM-E

The expansion module KCM-E is connected parallel to KCM-P, and increases the capacity by 2000 Ws or 4000 Ws in each case. Several expansion modules can easily be connected to each other via the reverse polarity protected connection cable provided.



The energy reserves can increase almost unlimitedly with the expansion modules KCM-E. A discharge resistor is integrated into every module. The connection is made to connectors on the top side of the module using the cable protected against polarity reversal that is supplied.

### Performance data

	KCM-P	KCM-E20	KCM-E40
Electrical storage capacity	2000 Ws	2000 Ws	4000 Ws
Continuous voltage of the DC-link circuit	max. 850 V DC		
Peak voltage of the DC-link circuit	max. 950 V DC (30 s in 6 minutes)		
Inception voltage from the factory	470 V DC		
Maximum output	18 kW	18 kW	18 kW
Protection type	IP20		
Dimensions H x W x D	300 x 100 x 201 (mm)		
Weight	6,9 kg	4,1 kg	6,2 kg

