Kinetic energy buffering

**The challenge:**
- For dynamic reversing operations in single-axis and multi-axis systems, reuse the kinetic energy available in the system.

**The solution:**
- SINAMICS S120: Energy balancing via the common DC link.
  - Additional motor module connected to the common DC link, including motor connected as kinetic energy storage device (flywheel).
  - Only excess energy is fed back into the line supply.

**Customer advantages:**
- Servo presses, in addition, up to 10% energy saving when compared to previous solutions with ALM.
- Lower line power peaks and optimized power costs.
- Minimized energy losses through kinetic energy buffering.
- Brief power failures are buffered.

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### Consulting/Know-how

### Software

### Functions

### Hardware

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