Application
For electro-permanent magnetic systems with 210 V or 360 V magnet voltage.
Also suitable for retrofitting.
Control via handheld unit SAV 876.02-SE3, control elements for integration in machine console, or machine side PLC signals.

Function:
- As a pulse control for the magnetization of Electro-Permanent Magnetic Chucks
- Control of the demagnetizing cycle
- Optimized for all SAV electro-permanent magnetic chucks
- Monitoring of the mains voltage, the own power components and all cables, including magnet winding.
- Internal components partially redundant.
- Machine released through double safety contact
- Clamping and releasing over redundant input signals with feedback after a successful magnetizing and demagnetizing
- Holding force regulation through inverse BCD coding 8- or 16-stages.

Features:
- Small and compact
- Easy integration into any machine
- User-friendly LCD text display English/German
- Easy to navigate through keypad
- Signal inputs and outputs displayed on SMD-LEDs
- Connectors for signal inputs and outputs
- Magnetic connection with potential free contacts
- Safe and reliable
- In box execution with main switch, terminal strip and circuit breaker

Advantages:
- Short-circuit proof
- Control and power board fully electronic
- Additional potential free relay contacts for magnetic connection
- Advanced diagnostics
- Ground-fault test
- Very compact design
- Pre-programmed settings
- Individual programmability
- Short demagnetizing time
- High demagnetizing quality for single magnet systems
- Automatic frequency detection
- Functional design and operation

CE Compliant
According to Machinery Directive 2006/42/EC
Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC
ROH Compliant

Heavy duty connector with quick-locking optional at extra cost

Easy to use

Optional:
The controller in box version can be provided with heavy duty plug. Socket with cap on the magnet, 5 m cable with connector to control.
The assemblies are 8-pin, suitable for control unit types maximum 60Ax2.
Product Code: SAV 876.12-SS9

Optional:
When the control and magnet are used for palletizing, an optional parking station prevents the movement of the pallet with plug connected.
Product Code: SAV 876.12-PS9
ELECTRONIC POLARITY REVERSING CONTROL UNITS

SAV 876.12

with integrated micro processor and holding force regulation

**ELECTRIC DETAILS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Magnet voltage DC in V</th>
<th>Max. magnet current in A</th>
<th>Input voltage AC in V</th>
<th>Max. magnet power in kW</th>
<th>Fuse in A (slow)</th>
<th>Ø of supply cable in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>876.12-E-O-210/30/230</td>
<td>210</td>
<td>30</td>
<td>230 / L1 N PE</td>
<td>6,3</td>
<td>16</td>
<td>1,5</td>
</tr>
<tr>
<td>876.12-E-O-210/30/400</td>
<td>210</td>
<td>30</td>
<td>400 / L1 L2 PE</td>
<td>6,3</td>
<td>16</td>
<td>1,5</td>
</tr>
<tr>
<td>876.12-E-O-360/30/400</td>
<td>360</td>
<td>30</td>
<td>400 / L1 L2 PE</td>
<td>10,8</td>
<td>16</td>
<td>1,5</td>
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<td>360</td>
<td>30x2</td>
<td>400 / L1 L2 PE</td>
<td>10,8x2</td>
<td>16</td>
<td>1,5</td>
</tr>
<tr>
<td>876.12-E-O-360/60/400</td>
<td>360</td>
<td>60</td>
<td>400 / L1 L2 PE</td>
<td>21,6</td>
<td>32</td>
<td>2,5</td>
</tr>
<tr>
<td>876.12-E-O-360/60x2/400</td>
<td>360</td>
<td>60x2</td>
<td>400 / L1 L2 PE</td>
<td>21,6x2</td>
<td>32</td>
<td>2,5</td>
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<tr>
<td>876.12-E-O-360/60x3/400</td>
<td>360</td>
<td>60x3</td>
<td>400 / L1 L2 PE</td>
<td>21,6x3</td>
<td>32</td>
<td>2,5</td>
</tr>
</tbody>
</table>

**GEOMETRIC DETAILS** (Dimensions in mm)

<table>
<thead>
<tr>
<th>Ordering key</th>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>876.12-S-O-210/30/230</td>
<td>EP1</td>
<td>600</td>
<td>200</td>
<td>558</td>
<td>556</td>
<td>10</td>
<td>15</td>
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<tr>
<td>876.12-S-O-210/30/400</td>
<td>EP2</td>
<td>600</td>
<td>200</td>
<td>558</td>
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<tr>
<td>876.12-S-O-360/30/400</td>
<td>EP3</td>
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<td>200</td>
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<td>556</td>
<td>10</td>
<td>15</td>
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</tr>
<tr>
<td>876.12-S-O-360/30x2/400</td>
<td>EP4</td>
<td>600</td>
<td>200</td>
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<td>556</td>
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<tr>
<td>876.12-S-O-360/60/400</td>
<td>EP5</td>
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<td>200</td>
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<tr>
<td>876.12-S-O-360/60x2/400</td>
<td>EP6</td>
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<td>558</td>
<td>556</td>
<td>10</td>
<td>21</td>
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<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>876.12-E-O-210/30/230</td>
<td>EP1</td>
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<td>120</td>
<td>95</td>
<td>210</td>
<td>85</td>
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<td>2,0</td>
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<tr>
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<td>220</td>
<td>120</td>
<td>95</td>
<td>210</td>
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<tr>
<td>876.12-E-O-360/30/400</td>
<td>EP3</td>
<td>220</td>
<td>120</td>
<td>95</td>
<td>210</td>
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<td>95</td>
<td>270</td>
<td>85</td>
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<td>3,5</td>
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<tr>
<td>876.12-E-O-360/60/400</td>
<td>EP5</td>
<td>280</td>
<td>120</td>
<td>95</td>
<td>270</td>
<td>85</td>
<td>5</td>
<td>3,5</td>
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<tr>
<td>876.12-E-O-360/60x2/400</td>
<td>EP6</td>
<td>360</td>
<td>120</td>
<td>95</td>
<td>350</td>
<td>85</td>
<td>5</td>
<td>4,5</td>
</tr>
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</table>

To comply with the European standards in line filter must be provided with the power supply:

<table>
<thead>
<tr>
<th>Type</th>
<th>Magnet voltage DC in V</th>
<th>Max. magnet current in A</th>
<th>Input voltage AC in V</th>
<th>Approx. Dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>876.12-EPF-210/30/230</td>
<td>210</td>
<td>30</td>
<td>230 / L1 N PE</td>
<td>Length: 250 Width: 300 Height: 150</td>
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<td>876.12-EPF-210/30/400</td>
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<td>400 / L1 L2 PE</td>
<td>Length: 250 Width: 300 Height: 150</td>
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<td>360</td>
<td>30</td>
<td>400 / L1 L2 PE</td>
<td>Length: 250 Width: 300 Height: 150</td>
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<tr>
<td>876.12-EPF-360/60/400</td>
<td>360</td>
<td>60</td>
<td>400 / L1 L2 PE</td>
<td>Length: 250 Width: 300 Height: 150</td>
</tr>
</tbody>
</table>

Ordering example
Electronic polarity reversing control unit : SAV 876.12-SO-360/60x2/400
Name : No SAV - execution - Transformer - magnet voltage - max. magnet current – input voltage

Ordering example
In line filter unit : SAV 876.12-EPF-360/60x2/400
Name : No SAV - execution - magnet voltage - max. magnet current – input voltage
ELECTRONIC POLARITY REVERSING CONTROL UNITS  
SAV 876.12

with integrated micro processor and holding force regulation

Terminal block, pluggable
Machine interface
Hand held remote control
Mains

Plain text display
German / English for status and error messages

Hand held remote control
SAV 876.02-SE3

Simple menu navigation by keypad
Panel suitable for integration into machine console.

CE Compliant
According to Machinery Directive 2006/42/EC
Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC

• Short circuit proof
• Short to ground test

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