Motor protection and control
Manual motor starters, contactors and overload relays
Extensive range of contactors

High performance contactors for your applications from 9 to 5000 A

Mini contactors for compact equipments, up to 5.5 kW (400 V AC) / 3 hp (480 V AC)
Contactors for all industrial applications, up to 2050 A and motor starting, up to 560 kW (400 V AC) / 900 hp (480 V AC)
Contactors for heavy duty applications, up to 5000 A, 1000 V AC / 1500 V DC

- Complete and harmonized 3 and 4-pole ranges.
- High performance and high quality materials.
- Compact dimensions easy to integrate in all designs.
- AF contactors with electronic coil interface:
  - wide voltage range AC / DC, sag and dips immunity,
  - built-in surge suppressor.
- Complying with the latest international standards.

The right choice for many applications
- Pumps
- HVAC
- Compressors
- Power supply solutions
- Packing machines
- Cranes
- Elevators and escalators
- Moulding machines
  Wood machines
- Robot
- Windmill
- Solar system
- Water heating
- Fuel cells
- Traction
Motor starting solutions
- Perfect match in starter assembly with a large range of accessories.
- Short-circuit protection, type 1 and 2 coordination.
- Large offer of accessories for direct-on-line, reversing and star-delta starters which allows:
  - time / cost saving,
  - secure connection,
  - aesthetic starters,
  - easy assembly and wiring.
<table>
<thead>
<tr>
<th>Mini contactors</th>
<th>3-pole contactors, for all industrial applications and motor starting</th>
</tr>
</thead>
</table>

### 3-pole or 4-pole Contactors

<table>
<thead>
<tr>
<th>IEC AC-3 Rated operational current</th>
<th>UL/C/CSA 3-phase motor rating</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 kA</td>
<td>480 V, 600 V</td>
<td>3 pole or 4 pole</td>
</tr>
<tr>
<td>6 kA</td>
<td>600 V</td>
<td></td>
</tr>
</tbody>
</table>

#### Surge suppressors
- Transil diode (DC)
- Varistor (AC/DC)

#### Interlocking units
- Mechanical
- Electronic

#### Timers
- Pneumatic (Front mounting)
- Electronic

#### Main accessories
- Auxiliary contact blocks
  - Front mounting
  - Side mounting
- Timers
- Interlocking units
- Connection sets
- Surge suppressors
  - Varistor (AC/DC)
  - Transil diode (DC)

#### Overload relays
- Thermal relays
  - Class 10
  - Class 20
- Accessories for thermal overload relays
  - Wall/mounted
  - Remote reset coil
- Electronic relays
  - Wall/mounted
- Accessories for electronic overload relays
  - Wall/mounted

#### Manual motor starters
- Thermal (magnetic or electronic)
  - Class 10
  - Class 20
- Magnetic only types
  - Class 20

#### Accessories
- For contactor mounting
- Auxiliary trip units, auxiliary contacts, busbars

### New

<table>
<thead>
<tr>
<th>Type</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
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</tbody>
</table>

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**New**

1. See available reversing contactors VB6, VB7 and VAS09...VAS16 for protection.
2. AF contactors have built-in surge protection.

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**General use rating**

<table>
<thead>
<tr>
<th>NEMA</th>
<th>NEMA Size</th>
<th>UL/CSA 3-phase motor rating</th>
<th>AC / DC Control supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK1</td>
<td>CK1</td>
<td>B6, B7</td>
<td>480 V, 600 V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Type</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B6, B7</td>
<td></td>
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</tbody>
</table>

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**AC / DC Control supply**

<table>
<thead>
<tr>
<th>Type</th>
<th>New</th>
</tr>
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<tbody>
<tr>
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**Overload relays**

<table>
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<tr>
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<tr>
<td>New</td>
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</table>

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**Circuit breakers**

<table>
<thead>
<tr>
<th>Type</th>
<th>New</th>
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</thead>
<tbody>
<tr>
<td>New</td>
<td>New</td>
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<tr>
<td>New</td>
<td>New</td>
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</tbody>
</table>
4-pole contactors

<table>
<thead>
<tr>
<th>IEC</th>
<th>AC-1 Rated operational current</th>
<th>UL/C/SA</th>
<th>General use rating</th>
<th>A 600</th>
<th>600 V</th>
<th>A 600, Q 300</th>
<th>A 600, Q 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Control supply</td>
<td>Type</td>
<td>AF09, AF16, AF26, AF38</td>
<td>A45, A50, A75, EK110, EK150, EK175, EK210, EK370, EK550, EK1000</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>DC Control supply</td>
<td>Type</td>
<td>AF09, AF16, AF26, AF38</td>
<td>AE45, AE50, AE75, EK110, EK150, EK175, EK210, EK370, EK550, EK1000</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>AC / DC Control supply</td>
<td>Type</td>
<td>AF09, AF16, AF26, AF38</td>
<td>—</td>
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</tbody>
</table>

Mini contactor relays

<table>
<thead>
<tr>
<th>IEC</th>
<th>AC-15 Rated operational current</th>
<th>UL/C/SA</th>
<th>Pilot relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Control supply</td>
<td>Type</td>
<td>K6-22Z, K6-31Z, K6-40E</td>
<td>NS22E, NS31E, NS40E, NF22E, NF31E, NF40E</td>
</tr>
<tr>
<td>DC Control supply</td>
<td>Type</td>
<td>KC6-22Z, KC6-31Z, KC6-40E</td>
<td>NSL22E, NSL31E, NSL40E, NF22E, NF31E, NF40E</td>
</tr>
<tr>
<td>AC / DC Control supply</td>
<td>Type</td>
<td>—</td>
<td>—</td>
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Contactor relays

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<thead>
<tr>
<th>IEC</th>
<th>AC-1 Rated operational current</th>
<th>UL/C/SA</th>
<th>General use rating</th>
<th>4-pole</th>
<th>4-pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Circuit switching</td>
<td>—</td>
<td>Type</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>AC Circuit switching</td>
<td>—</td>
<td>Type</td>
<td>—</td>
<td>—</td>
<td></td>
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<tr>
<td>Special versions</td>
<td>—</td>
<td>Type</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

R contactors

| DC Circuit switching | — | Type | — | — |
| AC Circuit switching | — | Type | — | — |
| Special versions | — | Type | — | — |

Specific contactors

| Capacitor switching | — | Type | — | — |
| DC Circuit switching | — | Type | — | — |
| Magnetical latching | — | Type | — | — |

ABB | Panorama
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http://www.abb.com/contacts -> Low Voltage products

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