3TM vacuum contactors – applications

- Switching of three-phase motors in AC-3 or AC-4 operation
  For example in conveying and elevator systems, compressors, pumping stations, ventilation and heating
- Switching of transformers
  For example in transformer or transfer substations (secondary distribution level)
- Switching of capacitors
  For example in power factor correction systems, capacitor banks
- Switching of reactors
  For example in industrial distribution systems, DC-link reactors, power factor correction systems
- Switching of resistive consumers
  For example heating resistors, electrical furnaces
- Switching of special applications
  For example data centers, photovoltaic installations, wind power plants
3TM vacuum contactors – highlights

Flexible application
- Individually adjustable switching times
- Various mounting positions
- Flexible control of linking system

Robust construction
- Highly shock-resistant
- Suitable for ambient temperatures from −40°C to +70°C
- Suitable for applications at altitudes of up to 5,000 m

Variable design
- Freely definable pole-center distances
- 1-pole, 2-pole, and 3-pole versions
- Easy replacement and modification as well as easy retrofitting of components

Global conformity to standards
- Certification IEC 62271-106
- Certification UL 347
- Certification GOST P 52565-2006
- Certification CSA C22.2 253-09
- Certification GBT148808
- Certification DNVGL-CG-0339

3TM vacuum contactors are the optimal choice for medium-voltage power distribution. The compact, flexibly usable, energy-efficient products are suitable for all relevant ranges, including rated voltages from 7.2 to 15 kV and rated operational currents up to 450 A. They guarantee the safe switching of operational currents and overload currents in the categories AC-1 to AC-4 – including voltage dips – and thus ensure that plants operate with all-round protection.

### Selection information

<table>
<thead>
<tr>
<th>Selection information</th>
<th>3TM31</th>
<th>3TM32</th>
<th>3TM33</th>
<th>3TM34</th>
<th>3TM35</th>
<th>3TM36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage $U_r$</td>
<td>7.2 kV</td>
<td>7.2 kV</td>
<td>7.2 kV</td>
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<td>Rated operational current $I_e$</td>
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<td>Rated lightning impulse withstand voltage $U_{IL}$</td>
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<td>Rated short-duration power frequency withstand voltage $U_{d}$</td>
<td>20 kV</td>
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<td>32 kV</td>
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<td>Rated short-circuit-breaking current $I_{SC}$</td>
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<td>Rated short-time withstand current $I_{t}$</td>
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<td>Switching capacity (rated making current)</td>
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<td>4,500 A</td>
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<td>Switching capacity (rated breaking current)</td>
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<td>Mechanical endurance (operating cycles)</td>
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<td>Electrical endurance AC-3 (operating cycles)</td>
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<td>250,000</td>
<td>500,000</td>
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### Ordering information

Your direct ordering channel
siemens.com/product?3TM31
siemens.com/product?3TM32
siemens.com/product?3TM33
siemens.com/product?3TM34
siemens.com/product?3TM35
3TM36: on request