Type SDV7 distribution circuit breaker family includes:
- Type SDV7-SE: type SDV7 non-arc-resistant with stored-energy operator
- Type SDV7-MA: type SDV7 non-arc-resistant with magnetic-actuator operator
- Type SDV7-SE-AR: type SDV7-AR arc-resistant with stored-energy operator
- Type SDV7-MA-AR: type SDV7-AR arc-resistant with magnetic-actuator operator.

Type SDV7 enclosure types offered:
- Standard: non-arc-resistant enclosure
- Optional: arc-resistant, accessibility type 2B, tested to ANSI/IEEE C37.20.7.

Storage-energy operator features:
- Time-proven type 3AH3 operator derived from operators introduced in 1977 (over 120,000 produced)
- Common operator for all ratings
- Design tested to ANSI/IEEE C37.09.

Magnetic-actuator operator features:
- Design adapted from type 3AH3 stored-energy operator configuration
- High-voltage compartment configuration identical to stored energy version
- Design tested to ANSI/IEEE C37.09
- Built-in fast discharge circuit for electronic controller power capacitors
- Manual opening handle requires very modest force for operation
- Electronic controller life estimated at 30 years.

Other features and benefits include:
- Extended capacitor switching (optional)
- Tested for out-of-phase switching ratings (ANSI/IEEE C37.09)
- Large relay and control compartment
- Stainless steel exterior hardware
- Porcelain dry-type bushings with extended creep
- Highly reliable vacuum interrupters – MTTF over 53,000 years
- Pair with Siemens protective relays to match any typical application
- Moderate and high seismic qualification (Zones 1-4) available
- Meets or exceeds the latest ANSI, IEEE and NEMA standards
- ANSI/IEEE "rain tested" enclosure (ANSI/IEEE C37.20.2).
Technical ratings

<table>
<thead>
<tr>
<th>Circuit breaker type SDV7</th>
<th>Rated maximum voltage</th>
<th>Rated withstand voltages</th>
<th>Rated short-circuit and short-time current</th>
<th>Rated interrupting time¹</th>
<th>Rated continuous current</th>
<th>Rated transient recovery voltage²</th>
<th>Rated permissible tripping delay time Y</th>
<th>Rated closing and latching current</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kV, rms</td>
<td>kV³</td>
<td>kA, rms</td>
<td>ms/cycles</td>
<td>kV, rms</td>
<td>kV, ms</td>
<td>sec</td>
<td>kA, peak</td>
</tr>
<tr>
<td>15.5-20</td>
<td>15.5</td>
<td>110/142</td>
<td>50</td>
<td>20</td>
<td>50/3</td>
<td>1,200, 2,000</td>
<td>29.2</td>
<td>32</td>
</tr>
<tr>
<td>15.5-25</td>
<td>15.5</td>
<td>110/142</td>
<td>50</td>
<td>25</td>
<td>50/3</td>
<td>1,200, 2,000</td>
<td>29.2</td>
<td>32</td>
</tr>
<tr>
<td>15.5-31.5⁴</td>
<td>15.5</td>
<td>110/142</td>
<td>50</td>
<td>31.5</td>
<td>50/3</td>
<td>1,200, 2,000, 3,000</td>
<td>29.2</td>
<td>32</td>
</tr>
<tr>
<td>15.5-40⁴</td>
<td>15.5</td>
<td>110/142</td>
<td>50</td>
<td>40</td>
<td>50/3</td>
<td>1,200, 2,000, 3,000</td>
<td>29.2</td>
<td>32</td>
</tr>
<tr>
<td>27.6-20</td>
<td>27.6</td>
<td>150/194</td>
<td>60</td>
<td>20</td>
<td>50/3</td>
<td>1,200, 2,000</td>
<td>52.1</td>
<td>45</td>
</tr>
<tr>
<td>27.6-25</td>
<td>27.6</td>
<td>150/194</td>
<td>60</td>
<td>25</td>
<td>50/3</td>
<td>1,200, 2,000</td>
<td>52.1</td>
<td>45</td>
</tr>
<tr>
<td>38.0-20³</td>
<td>38.0</td>
<td>200/258</td>
<td>80</td>
<td>20</td>
<td>50/3</td>
<td>1,200, 2,000</td>
<td>71.7</td>
<td>59</td>
</tr>
<tr>
<td>38.0-25³</td>
<td>38.0</td>
<td>200/258</td>
<td>80</td>
<td>25</td>
<td>50/3</td>
<td>1,200, 2,000, 2,500</td>
<td>71.7</td>
<td>59</td>
</tr>
<tr>
<td>38.0-31.5⁴</td>
<td>38.0</td>
<td>200/258</td>
<td>80</td>
<td>31.5</td>
<td>50/3</td>
<td>1,200, 2,000, 2,500</td>
<td>71.7</td>
<td>59</td>
</tr>
<tr>
<td>38.0-40⁴</td>
<td>38.0</td>
<td>200/258</td>
<td>80</td>
<td>40</td>
<td>50/3</td>
<td>1,200, 2,000, 2,500</td>
<td>71.7</td>
<td>59</td>
</tr>
</tbody>
</table>

Footnotes:
1. TRV values are in accordance with ANSI/IEEE C37.06-2009 TRV peak value uₚ roughly equal to historic Eₚ value in ANSI/IEEE C37.06-2000. Value tₚ, time to voltage uₚ, is approximately 1/1.138 times Tₛ value in ANSI/IEEE C37.06-2000.
2. First value is full-wave impulse withstand circuit breaker open or closed. Second value is chopped-wave impulse withstand, applicable only with circuit breaker closed.
3. Magnetic-actuator availability to be announced for these ratings. Consult factory. ©2018 Siemens Industry, Inc.

The technical data presented in this document is based on an actual case or on as designed parameters, and therefore should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.