NPS
Modular outdoor switch disconnector

NPS is air insulated outdoor switch disconnector, dedicated for sectionalizing overhead medium voltage distribution networks.

NPS
• up to 36 kV nominal voltage
• Current breaking capacity from 16 – 630A
• Manual or remote motor controlled
• Ability to install additional pole equipment for different distribution network needs

Main Features
Reliable and flexible design:
• Mechanically stable structure to suit different climatic conditions
• Flexible mounting and installation options
• Wide range of breaking current parameters
• Manual or motor operating mechanisms
• Wide range of control cabinets to allow installation of communication equipment
• Easy upgradable
• Designed to be fitted with a wide range of modular accessories:
  - Earthing switches from both sides of main switch
  - Possible separate earthing switch solutions
  - Current transformers and surge arresters on same supporting structure

Safety:
• Visible open break
• Air insulation
• Padlocking in open or close position
• IEC type tested

Logistic and installation:
• Compact packaging reduces transportation and storage costs
• Modular NPS design minimizes on site assembly and installation time
• Adjustable phase distance

Environment:
• No oil or SF6 gas used in breaking chambers
• Recyclable materials

Quality:
• Steel components hot dip galvanized or stainless steel
• Silver coated copper current path
• Various insulation materials: porcelain, epoxy and silicon
• High number of operation
### Main parameters

<table>
<thead>
<tr>
<th>Type</th>
<th>Disconnector</th>
<th>Switch disconnector</th>
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<tbody>
<tr>
<td><strong>Rated voltage</strong></td>
<td>24 kV</td>
<td>24 kV</td>
<td>24 kV</td>
<td>24 kV</td>
<td>25.8 kV</td>
<td>36 kV</td>
<td>36 kV</td>
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<td><strong>Rated current</strong></td>
<td>630 A</td>
<td>630 A</td>
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<td><strong>Insulators type</strong></td>
<td>Epoxy</td>
<td>Epoxy</td>
<td>Epoxy</td>
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<td>Epoxy</td>
<td>Porcelain</td>
<td>porcelain</td>
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<td>(Porcelain)</td>
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<tr>
<td><strong>BIL</strong></td>
<td>125 kV (150 kV)</td>
<td>125 kV (150 kV)</td>
<td>125 kV (150 kV)</td>
<td>125 kV (150 kV)</td>
<td>200 kV (200 kV)</td>
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<td>125 kV (150 kV)</td>
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<td>125 kV (150 kV)</td>
<td>200 kV (200 kV)</td>
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<tr>
<td><strong>Creepage distance</strong></td>
<td>755 mm (620 mm)</td>
<td>755 mm (620 mm)</td>
<td>755 mm (620 mm)</td>
<td>755 mm (620 mm)</td>
<td>900 mm (1205 mm)</td>
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<td>900 mm (1205 mm)</td>
<td>900 mm</td>
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<td><strong>Rated short circuit withstand current</strong></td>
<td>16 kA / 1 s (20 kA / 1 s)</td>
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<td><strong>Rated peak withstand current</strong></td>
<td>40 kA (50 kA)</td>
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<tr>
<td><strong>Type of breaking device</strong></td>
<td>- NPAB1</td>
<td>NPAK1</td>
<td>NPAK4</td>
<td>NPAK5</td>
<td>-</td>
<td>NPAB4</td>
<td></td>
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<tr>
<td><strong>Rated breaking current / number of cycles</strong></td>
<td>- 25A / 100CO</td>
<td>50 A / 30 CO</td>
<td>250 A / 100 CO</td>
<td>400 A / 100 CO</td>
<td>630 A / 10 CO</td>
<td>- 16 A / 100 CO</td>
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Modularity – wide range of optional equipment could be added to the base disconnector.
01 One pole horizontal installation (wooden pole)
02 One pole horizontal installation (concrete rectangular pole)
03 One pole horizontal installation steel pole structure
04 One pole vertical installation (concrete circular pole)
05 Two pole horizontal installation (wooden pole)
06 UEMC50 motor drive for NPS