



Figure similar

FUSE-SWITCH-DISCONNECTOR I=160A, U=690V,  
AUXILIARY SWITCH 1NO+1NC FOR CABLE-LUG  
CONNECTION FUSE SIZE NH00

| Model   |  |   |
|---|--|---|
| product brand name                            |  | SENTRON   |
| Product designation                           |  | 3NP5 fuse switch disconnecter   |
| <b>Design of the product</b>                  |  | for assembly and installation with AUX 1NO+1NC, with high-speed closing |
| <b>Design type</b>                            |  | For mounting and installation, with Auxiliary contact 1NO+1NC           |
| <b>Design of the operating mechanism</b>      |  | handle unit   |
| <b>Design of the load switch / Strip form</b> |  | No  |

| General technical data                                |   |                        |
|---|---|------------------------|
| <b>Number of poles</b>                                |   | 3                      |
| <b>Size of disconnecting link</b>                     |   | 00 and 000             |
| <b>Continuous current / at 35 °C / Rated value</b>    | A | 160                    |
| <b>power factor cos phi / in utilization category</b> |   |                        |
| • AC-21 B / at 400 V                                  |   | 0.95                   |
| • AC-21 B / at 500 V                                  |   | 0.95                   |
| • AC-22 B / at 400 V                                  |   | 0.65                   |
| • AC-22 B / at 500 V                                  |   | 0.65                   |
| <b>circuit-breaker / Design</b>                       |   | <a href="#">3NP506</a> |
| <b>Mounting type</b>                                  |   | Fixed mounting         |
| <b>Fuse system</b>                                    |   | LV HRC fuse            |

| Voltage                                       |    |     |
|---|----|-----|
| <b>Insulation voltage / Rated value</b>       | V  | 690 |
| <b>Surge voltage resistance / Rated value</b> | kV | 6   |

| Protection class   |                   |         |
|--|-------------------|---------|
| Protection class IP / on the front   |                   | IP00    |
| Dissipation  |                   |         |
| <b>Active power loss</b>   |                   |         |
| • maximum  | W                 | 8       |
| Electricity  |                   |         |
| Current / Rated value  | A                 | 160     |
| <b>Continuous current</b>  |                   |         |
| • Rated value  | A                 | 160     |
| • at 40 °C / Rated value   | A                 | 160     |
| • at 45 °C / Rated value   | A                 | 160     |
| • at 50 °C / Rated value   | A                 | 157     |
| • at 55 °C / Rated value   | A                 | 152     |
| • at 60 °C / Rated value   | A                 | 144     |
| • at 65 °C / Rated value   | A                 | 136     |
| • at 70 °C / Rated value   | A                 | 128     |
| <b>Let-through current / I<sub>2 t</sub> / maximum permissible / in utilization category</b> |                   |         |
| • AC-21 B / at 400 V   | A <sup>2</sup> ·s | 225 000 |
| • AC-21 B / at 500 V   | A <sup>2</sup> ·s | 225 000 |
| • AC-22 B / at 400 V   | A <sup>2</sup> ·s | 225 000 |
| • AC-22 B / at 500 V   | A <sup>2</sup> ·s | 225 000 |
| <b>Let-through current / I<sub>c</sub> / maximum permissible / in utilization category</b>   |                   |         |
| • AC-21 B / at 400 V   | kA                | 15      |
| • AC-21 B / at 500 V   | kA                | 15      |
| • AC-22 B / at 400 V   | kA                | 15      |
| • AC-22 B / at 500 V   | kA                | 15      |
| Main circuit   |                   |         |
| <b>Operating voltage</b>   |                   |         |
| • with AC / at 50/60 Hz / Rated value  | V                 | 690     |
| • with AC / Rated value / maximum  | V                 | 690     |
| • for DC / Rated value   | V                 | 440     |
| Operating current / at AC-21 / Rated value   | A                 | 160     |
| <b>Rated current I<sub>e</sub> / maximum / in utilization category</b>                       |                   |         |
| • AC-21 B / at 400 V   | A                 | 160     |
| • AC-21 B / at 500 V   | A                 | 160     |
| • AC-22 B / at 400 V   | A                 | 160     |
| • AC-22 B / at 500 V   | A                 | 160     |
| Auxiliary circuit  |                   |         |

|  |  |   |
|--|--|---|
| Number of CO contacts / for auxiliary contacts |  | 0 |
| Number of NC contacts / for auxiliary contacts |  | 1 |
| Number of NO contacts / for auxiliary contacts |  | 1 |

### Suitability

|                            |  |                   |
|----------------------------|--|-------------------|
| <b>Suitability for use</b> |  | system protection |
| • Main switch              |  | No                |
| • switch disconnecter      |  | Yes               |
| • EMERGENCY OFF switch     |  | No                |
| • safety switch            |  | Yes               |

### Product function

|                                    |  |    |
|------------------------------------|--|----|
| Product function / fuse monitoring |  | No |
|------------------------------------|--|----|

### Short circuit

|   |    |     |
|---|----|-----|
| Maximum short-circuit current breaking capacity (I <sub>cu</sub> ) / at 400 V / Rated value | kA | 1.6 |
| <b>Conditional rated short-circuit current / in utilization category</b>                    |    |     |
| • AC-21 B / at 400 V  | kA | 50  |
| • AC-21 B / at 500 V  | kA | 50  |
| • AC-22 B / at 400 V  | kA | 50  |
| • AC-22 B / at 500 V  | kA | 50  |

### Connections

|                                      |  |  |
|--------------------------------------|--|--|
| <b>Type of electrical connection</b> |  | Flat-type terminal 2.5-150 mm <sup>2</sup> DIN 46 234 a. up to 95 mm <sup>2</sup> DIN 46 235 |
| • for main current circuit           |  | flat connector   |

### Mechanical Design

|                              |    |                |
|------------------------------|----|----------------|
| <b>Height</b>                | mm | 196            |
| <b>Width</b>                 | mm | 134            |
| <b>Depth</b>                 | mm | 97.5           |
| <b>Number of width units</b> |    | 1              |
| <b>Mounting type</b>         |    | floor mounting |
| <b>Mounting type</b>         |    |                |
| • floor mounting             |    | Yes            |
| • front mounting             |    | No             |
| • rail mounting              |    | No             |

### Environmental conditions

|  |    |       |
|--|----|-------|
| <b>Installation altitude / at height above sea level / maximum</b> | m  | 2 000 |
| <b>Ambient temperature</b>   |    |       |
| • during operation / minimum                                       | °C | -25   |
| • during operation / maximum                                       | °C | 55    |
| • during storage / minimum   | °C | -50   |

• during storage / maximum

°C 80

## Certificates

### Equipment marking

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

Q  
Q

### General Product Approval

### Declaration of Conformity

### Test Certificates

### other



CCC



GOST



EG-Konf.

[Special Test  
Certificate](#)

[Confirmation](#)

### other

[other](#)

## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP50600CA10>

### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3NP50600CA10/all>

### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

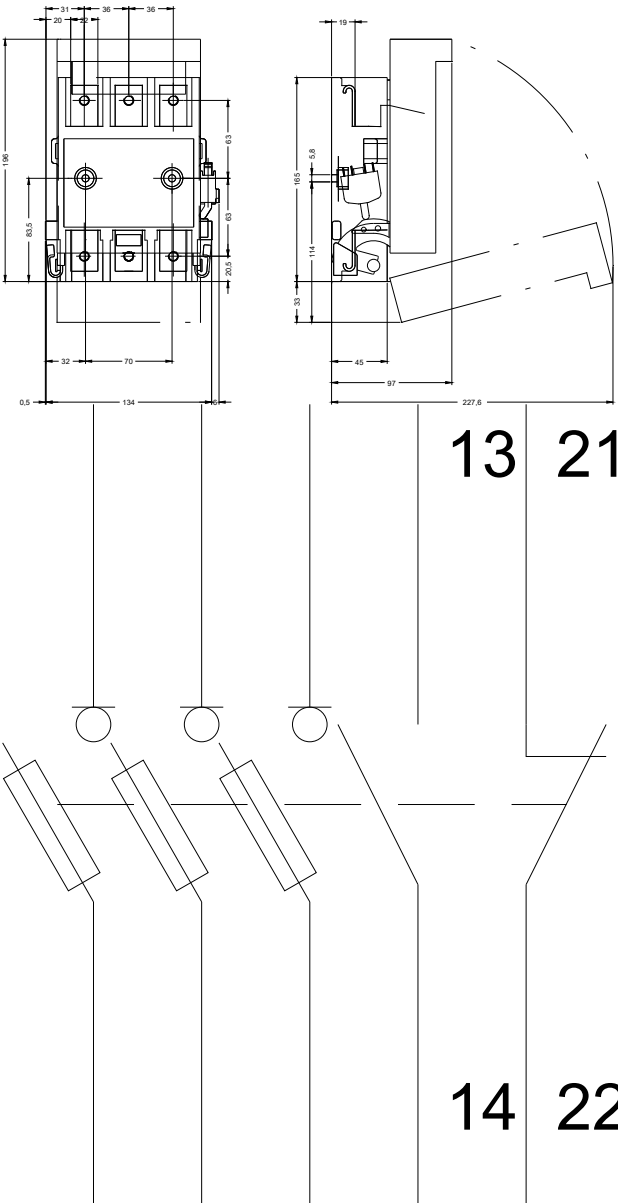
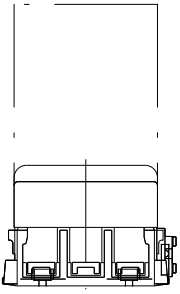
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP50600CA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP50600CA10)

### CAX-Online-Generator

<http://www.siemens.com/cax>

### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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