# **SIEMENS**

Product data sheet 3NP1143-1DA13

#### Number of poles



3

FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1, 250A MOUNTING PLATE CONSTRUCTION COVER LEVEL 70 MM FLAT CONNECTOR FUSE MONITORING ELECTRONIC, EFM 20

Similar to image

| General technical details:                             |                          |  |
|--|--------------------------|--|
| product brand name                                     | SENTRON                  |  |
| Product designation                                    | Fuse switch disconnector |  |
| Fuse system  | LV HRC fuse              |  |
| Installation size of fuse-link                         | NH0, NH1                 |  |
| Installation size of disconnecting link                | 1 and 0                  |  |
| Type from device                                       | Auf- und Einbau          |  |
| Design of the product                                  | 3-pole                   |  |
| Design of the operating mechanism                      | handle unit              |  |
| Type of the driving mechanism / motor drive            | No                       |  |
| Design of the safety monitoring                        | elektronisch EFM20       |  |
| Number of NC contacts / for auxiliary contacts         | 0                        |  |
| Number of NO contacts / for auxiliary contacts         | 0                        |  |
| Number of changeover contacts / for auxiliary contacts | 0                        |  |
| Design of the load switch / Strip form                 | No                       |  |
| Product equipment / interlock                          | Yes                      |  |
| Product feature / sealable                             | Yes                      |  |
| Product component                                      |                          |  |

| phase failure monitoring                  |   | Yes |
|---|---|-----|
| undervoltage release mechanism            |   | No  |
| undervoltage release with leading contact |   | No  |
| trip indicator                            |   | Yes |
| Acceptability for application             |   |     |
| switch disconnector                       |   | Yes |
| emergency stop switch                     |   | No  |
| main switch                               |   | No  |
| safety cut-out switch                     |   | Yes |
| maintenance/repair switch                 |   | Yes |
| Product function                          |   |     |
| fuse monitoring                           |   | Yes |
| overvoltage protection monitoring         |   | Yes |
| Product extension                         |   |     |
| auxiliary switch                          |   | Yes |
| • optional                                |   |     |
| voltage trigger                           |   | No  |
| <ul> <li>locking capability</li> </ul>    |   | Yes |
| motor drive                               |   | No  |
| Continuous current                        |   |     |
| • rated value                             | Α | 250 |
| • at 35 °C / rated value                  | Α | 250 |
| • at 40 °C / rated value                  | Α | 245 |
| • at 45 °C / rated value                  | Α | 240 |
| • at 50 °C / rated value                  | Α | 233 |
| • at 55 °C / rated value                  | Α | 233 |
| Operating current                         |   |     |
| • at AC-21 B                              |   |     |
| • at 400 V / rated value                  | Α | 250 |
| • at 500 V / rated value                  | Α | 250 |
| • at 690 V / rated value                  | Α | 250 |
| • at AC-22 B                              |   |     |
| • at 400 V / rated value                  | Α | 250 |
| • at 500 V / rated value                  | Α | 250 |
| • at 690 V / rated value                  | Α | 250 |
| • at AC-23 B                              |   |     |
| at 400 V / rated value                    | Α | 250 |
| • at 500 V / rated value                  | Α | 200 |
| • at 690 V / rated value                  | Α | 100 |
| with capacitive load                      |   |     |

| • at 400 V / maximum  | Α                  | 72      |
|---|--------------------|---------|
| • at 500 V / maximum  | Α                  | 55      |
| Let-through current   |                    |         |
| • with speedy activation / maximum permissible              | kA                 | 25      |
| • with closed switch / maximum permissible                  | kA                 | 32      |
| Conditional short-circuit current (Iq)                      |                    |         |
| • rated value   | kA                 | 80      |
| • at 500 V / with AC / with speedy activation / rated value | kA                 | 80      |
| • at 690 V / with AC / with speedy activation / rated value | kA                 | 50      |
| • with closed switch  |                    |         |
| • at 500 V / with AC / rated value                          | kA                 | 120     |
| • at 690 V / with AC / rated value                          | kA                 | 100     |
| Tension d'emploi  |                    |         |
| • for AC / rated value                                      | V                  | 230 690 |
| Power factor  |                    |         |
| • at AC-21 B  |                    | 0.95    |
| • at AC-22 B  |                    | 0.65    |
| • at AC-23 B  |                    | 0.45    |
| • with capacitive load                                      |                    | -0.25   |
| Active power loss / maximum                                 | W                  | 23      |
| Insulation voltage / rated value                            | V                  | 690     |
| Impulse voltage resistance / rated value                    | kV                 | 8       |
| 12t value / with closed switch / maximum permissible        | kA <sup>2</sup> ·s | 780     |
| Item designation  |                    |         |
| according to DIN EN 61346-2                                 |                    | Q       |
| according to DIN EN 81346-2                                 |                    | Q       |

| Connection elements and terminals:  |     |          |
|---|-----|----------|
| Design of the electrical connection / for main current circuit flat connector |     |          |
| Conductor cross section that can be connected / for main contacts             |     |          |
| single- or multi-stranded   | mm² | 16 150   |
| • stranded  | mm² | 16 150   |
| Tightening torque   |     |          |
| with screw-type terminals   | N·m | 10 12    |
| Arrangement of electrical connectors / for main current circuit               |     | sonstige |

| Degree of protection and safety class: |      |  |
|--|------|--|
| IP degree of protection                |      |  |
| • open                                 | IP20 |  |
| • on the front                         | IP40 |  |

| with closed switch                                      |       |
|---|-------|
| • without cover or cable lug cover                      | IP30  |
| • with cover or cable lug cover                         | IP40  |
| Degree of pollution                                     | 3     |
| Mechanical operating cycles as operating time / typical | 1,600 |

| Ambient conditions: |    |         |  |
|---------------------|----|---------|--|
| Ambient temperature |    |         |  |
| during operating    | °C | -25 +55 |  |
| during storage      | °C | -50 +80 |  |

| Installation/mounting/dimensions:      |    |                           |
|--|----|---------------------------|
| Mounting type                          |    | floor mounting            |
| rail mounting                          |    | No                        |
| front mounting                         |    | No                        |
| front mounting with central attachment |    | No                        |
| front mounting with 4-hole attachment  |    | No                        |
| floor mounting                         |    | Yes                       |
| mounting position                      |    | waagerecht oder senkrecht |
| Width                                  | mm | 183.7                     |
| Height                                 | mm | 306                       |
| Depth                                  | mm | 146.3                     |
| Net weight                             | kg | 2.33                      |

## Certificates/approvals:

| General Product Approval | Declaration of Conformity | Test Certificates |
|--------------------------|---------------------------|-------------------|
|                          |                           |                   |











Type Test
Certificates/Test
Report

### **Shipping Approval**







## GL

# 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/3NP1143-1DA13

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

http://support.automation.siemens.com/WW/view/en/3NP1143-1DA13/all

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

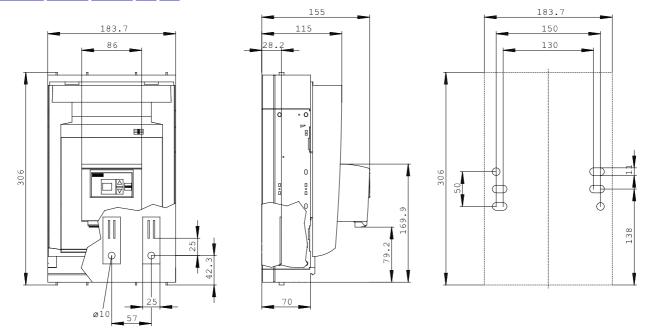
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1143-1DA13

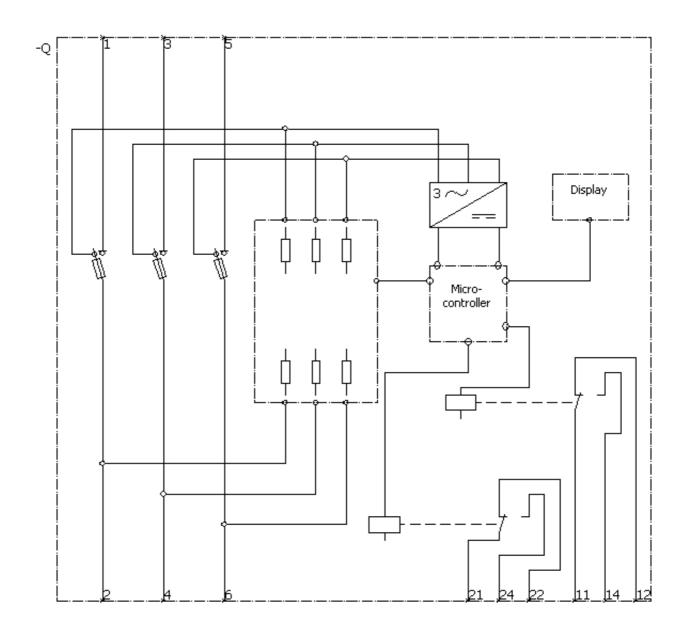
#### **CAx-Online-Generator**

http://www.siemens.com/cax

### Tender specifications

Datanorm GAEB81 GAEB83 RTF TXT





last change: Mar 17, 2014