



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00,  
160A 40MM BUSBAR SYSTEM COVER LEVEL 32/70 MM  
FLAT CONNECTOR FUSE MONITORING ELECTRONIC,  
EFM 20

Similar to image

## General technical details:

|                                       |    |                                                             |
|---------------------------------------|----|-------------------------------------------------------------|
| Type from device                      |    | Zum Aufschnappen auf Sammelschienensystem Siemens 8US 40 mm |
| mounting position                     |    | waagrecht oder senkrecht                                    |
| Width                                 | mm | 105.8                                                       |
| Height                                | mm | 210.4                                                       |
| Depth                                 | mm | 177.2                                                       |
| Center line spacing                   | mm | 40                                                          |
| Busbar design                         |    | Sammelschienenendicke 5 oder 10 mm                          |
| Continuous current                    |    |                                                             |
| • at 40 °C / rated value              | A  | 155                                                         |
| • at 45 °C / rated value              | A  | 145                                                         |
| • at 50 °C / rated value              | A  | 140                                                         |
| • at 55 °C / rated value              | A  | 133                                                         |
| Operational current                   |    |                                                             |
| • at AC-21 B                          |    |                                                             |
| • at 400 V / rated value              | A  | 160                                                         |
| • at 500 V / rated value              | A  | 160                                                         |
| • at 690 V / rated value              | A  | 160                                                         |
| • at AC-22 B / at 400 V / rated value | A  | 160                                                         |

|                                                                        |                    |                  |
|------------------------------------------------------------------------|--------------------|------------------|
| <b>Rated current I<sub>e</sub> / maximum / in utilization category</b> |                    |                  |
| • AC-22 B                                                              |                    |                  |
| • at 500 V                                                             | A                  | 160              |
| • at 690 V                                                             | A                  | 125              |
| • AC-23 B                                                              |                    |                  |
| • at 400 V                                                             | A                  | 160              |
| • at 500 V                                                             | A                  | 63               |
| • at 690 V                                                             | A                  | 35               |
| • Capacitor                                                            |                    |                  |
| • at 400 V                                                             | A                  | 72               |
| • at 500 V                                                             | A                  | 55               |
| <b>Conditional short-circuit current (I<sub>q</sub>)</b>               |                    |                  |
| • at 500 V / with AC / with speedy activation / rated value            | kA                 | 80               |
| • at 690 V / with AC / with speedy activation / rated value            | kA                 | 80               |
| • with closed switch                                                   |                    |                  |
| • at 500 V / with AC / rated value                                     | kA                 | 120              |
| • at 690 V / with AC / rated value                                     | kA                 | 120              |
| <b>Insulation voltage / rated value</b>                                | V                  | 690              |
| <b>Impulse voltage resistance / rated value</b>                        | kV                 | 8                |
| <b>Tension d'emploi</b>                                                |                    |                  |
| • sous AC                                                              |                    |                  |
| • rated value                                                          | V                  | 230 ... 690      |
| <b>Power factor</b>                                                    |                    |                  |
| • at AC-21 B                                                           |                    | 0.95             |
| • at AC-22 B                                                           |                    | 0.65             |
| • at AC-23 B                                                           |                    | 0.45             |
| • with capacitive load                                                 |                    | -0.25            |
| <b>I<sub>2t</sub> value / with closed switch / maximum permissible</b> | kA <sup>2</sup> ·s | 158              |
| <b>Let-through current</b>                                             |                    |                  |
| • with speedy activation / maximum permissible                         | kA                 | 15               |
| • with closed switch / maximum permissible                             | kA                 | 23               |
| <b>Design of the load switch / Strip form</b>                          |                    | No               |
| <b>Fuse system</b>                                                     |                    | LV HRC fuse      |
| <b>Installation size of fuse-link</b>                                  |                    | NH000, NH00      |
| <b>Installation size of disconnecting link</b>                         |                    | 00 and 000       |
| <b>Active power loss / maximum</b>                                     | W                  | 12               |
| <b>Design of the safety monitoring</b>                                 |                    | Electronic EFM20 |
| <b>Product component / phase failure monitoring</b>                    |                    | Yes              |
| <b>Product extension / optional</b>                                    |                    |                  |

|                                                                          |                 |                 |
|--------------------------------------------------------------------------|-----------------|-----------------|
| • voltage trigger                                                        |                 | No              |
| • locking capability                                                     |                 | Yes             |
| <b>Product component</b>                                                 |                 |                 |
| • undervoltage release mechanism                                         |                 | No              |
| • undervoltage release with leading contact                              |                 | No              |
| <b>Product function / overvoltage protection monitoring</b>              |                 | Yes             |
| <b>Product feature / sealable</b>                                        |                 | Yes             |
| <b>Type of the driving mechanism / motor drive</b>                       |                 | No              |
| <b>Design of the electrical connection / for main current circuit</b>    |                 | flat connector  |
| <b>Arrangement of electrical connectors / for main current circuit</b>   |                 | sonstige        |
| <b>Conductor cross-section that can be connected / for main contacts</b> |                 |                 |
| • solid                                                                  | mm <sup>2</sup> | 2.5 ... 95      |
| • stranded                                                               | mm <sup>2</sup> | 2.5 ... 95      |
| <b>Tightening torque</b>                                                 |                 |                 |
| • with screw-type terminals                                              | N·m             | 10 ... 12       |
| <b>Product extension / auxiliary switch</b>                              |                 | Yes             |
| <b>Number of NC contacts / for auxiliary contacts</b>                    |                 | 0               |
| <b>Number of NO contacts / for auxiliary contacts</b>                    |                 | 0               |
| <b>Number of change-over switches / for auxiliary contacts</b>           |                 | 0               |
| <b>Acceptability for application</b>                                     |                 |                 |
| • switch disconnecter                                                    |                 | Yes             |
| • emergency stop switch                                                  |                 | No              |
| • main switch                                                            |                 | No              |
| • safety cut-out switch                                                  |                 | Yes             |
| • maintenance/repair switch                                              |                 | Yes             |
| <b>Type of mounting</b>                                                  |                 | busbar mounting |
| • Rail installation                                                      |                 | Yes             |
| • front mounting                                                         |                 | No              |
| • floor mounting                                                         |                 | No              |
| <b>Largeur</b>                                                           |                 |                 |
| • du jeu de barres                                                       | mm              | 12 ... 15       |
| <b>IP degree of protection</b>                                           |                 |                 |
| • open                                                                   |                 | IP20            |
| • with closed switch                                                     |                 |                 |
| • without cover or cable lug cover                                       |                 | IP30            |
| • with cover or cable lug cover                                          |                 | IP40            |
| <b>Degree of pollution</b>                                               |                 | 3               |
| <b>Mechanical operating cycles as operating time / typical</b>           |                 | 2,000           |
| <b>Item designation / according to DIN EN 61346-2</b>                    |                 | Q               |

## Ambient conditions:

### Ambient temperature

- during operating
- during storage

°C

-25 ... +55

°C

-50 ... +80

## Certificates/approvals:

### General Product Approval



CB



CCC



GOST



UL



EG-Konf.

### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



DNV

### Shipping Approval



GL



LRS

## Further information:

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

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

### Industry Mall (Online ordering system)

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

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

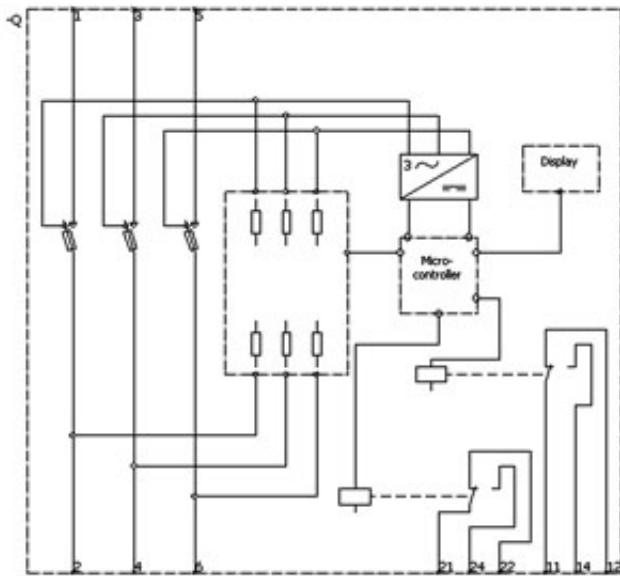
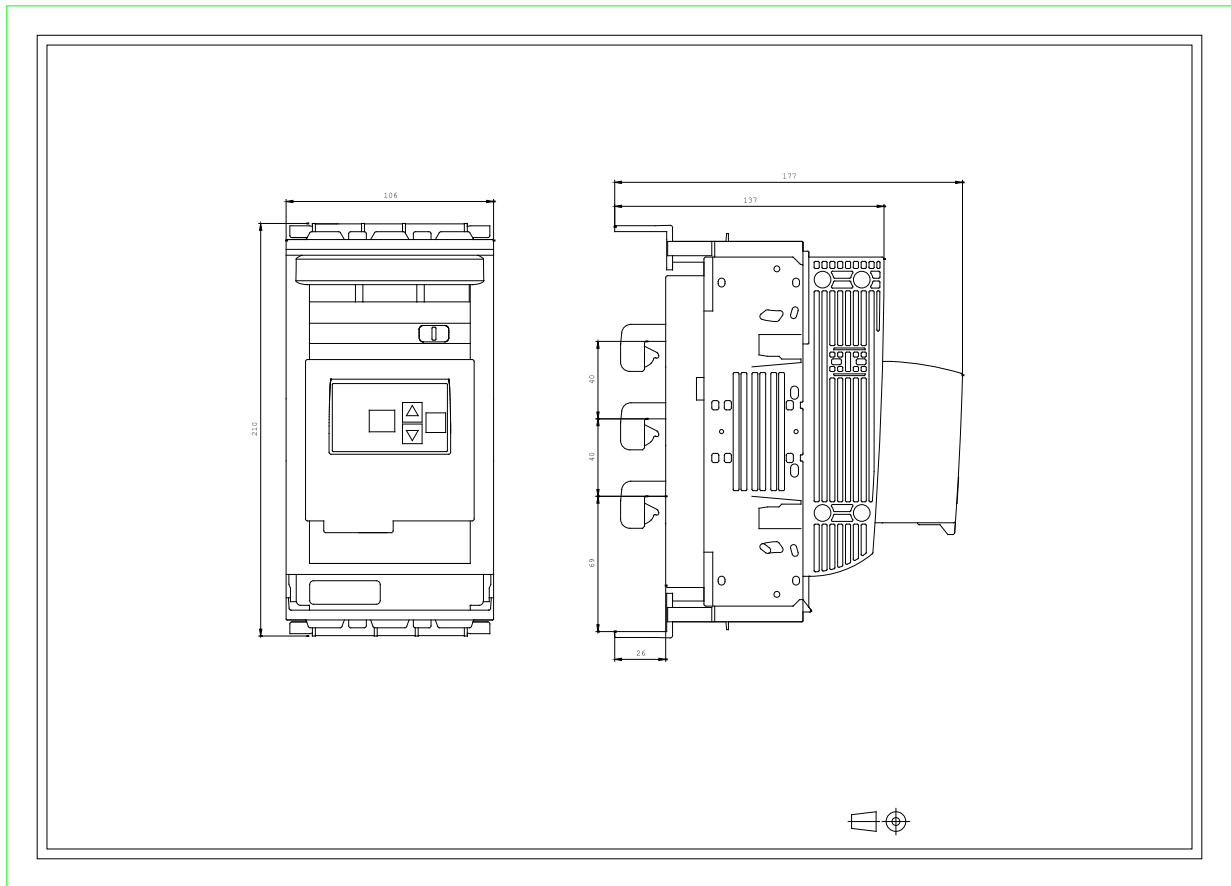
<http://support.automation.siemens.com/WW/view/en/3NP1133-1BB13/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1133-1BB13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1BB13)

### CAX-Online-Generator

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



last change:

Nov 2, 2012