



FI/LS-PROTECTOR TYPE AC (WS),  
D=70MM IFN 300MA, 10KA, 1+N-POLE C 13A

### General technical data:

|                                                               |    |                          |
|---------------------------------------------------------------|----|--------------------------|
| mounting position                                             |    | any                      |
| Current / for AC / rated value                                | A  | 13                       |
| Resistance to impulse current / [not supplied - at (8/20) µs] | kA | 1                        |
| Design of the fault-current type                              |    | AC                       |
| Design of the product                                         |    | Instantaneous            |
| Release fault-current / rated value                           | A  | 0.3                      |
| Number of pitch units for width                               |    | 2                        |
| Degree of pollution                                           |    | 2                        |
| Tripping characteristic class                                 |    | C                        |
| Position / of power supply cord                               |    | Optionally top or bottom |
| Mechanical operating cycles as operating time / typical       |    | 10,000                   |
| Energy limiting class                                         |    | 3                        |
| Overvoltage class                                             |    | 3                        |
| Product equipment / touch-protection                          |    | Yes                      |
| Supply voltage                                                |    |                          |
| • for AC / rated value                                        | V  | 230                      |
| • for testing equipment / minimum                             | V  | 100                      |
| Number of poles /note                                         |    |                          |
| •                                                             |    | 1P+N                     |

|                                                                                              |                 |                   |
|----------------------------------------------------------------------------------------------|-----------------|-------------------|
| • with protection                                                                            |                 | 1                 |
| <b>Switching capacity current</b>                                                            |                 |                   |
| • in accordance with IEC 60947-2 / rated value                                               | kA              | 15                |
| • acc. to EN 60898 / rated value                                                             | kA              | 10                |
| <b>Ambient temperature</b>                                                                   |                 |                   |
| • minimum                                                                                    | °C              | -25               |
| • maximum                                                                                    | °C              | 55                |
| <b>Influence of the surrounding temperature</b>                                              |                 | Max. 95% humidity |
| <b>Ambient temperature / during storage</b>                                                  |                 |                   |
| • minimum                                                                                    | °C              | -40               |
| • maximum                                                                                    | °C              | 75                |
| <b>Section de conducteur raccordable</b>                                                     |                 |                   |
| • solid                                                                                      |                 |                   |
| • minimum                                                                                    | mm <sup>2</sup> | 0.75              |
| • maximum                                                                                    | mm <sup>2</sup> | 35                |
| • multibrin                                                                                  |                 |                   |
| • minimum                                                                                    | mm <sup>2</sup> | 0.75              |
| • maximum                                                                                    | mm <sup>2</sup> | 35                |
| • finely stranded / with wire end processing                                                 |                 |                   |
| • minimum                                                                                    | mm <sup>2</sup> | 0.75              |
| • maximum                                                                                    | mm <sup>2</sup> | 25                |
| <b>Tightening torque / with screw-type terminals</b>                                         |                 |                   |
| • minimum                                                                                    | N·m             | 2.5               |
| • maximum                                                                                    | N·m             | 3                 |
| <b>Product feature</b>                                                                       |                 |                   |
| • [not supplied - silicon-free]                                                              |                 | Yes               |
| • halogen-free                                                                               |                 | Yes               |
| <b>Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30</b> |                 | 26                |
| <b>Item designation</b>                                                                      |                 |                   |
| • according to DIN EN 61346-2                                                                |                 | F                 |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750                   |                 | F                 |

Certificates/approvals:

## General Product Approval



CCC



GOST



IMQ

[other](#)



VDE



ÖVE

Declaration of  
Conformity

other



EG-Konf.

[Environmental  
Confirmations](#)

## 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/5SU1654-1KK13/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1654-1KK13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1654-1KK13)

**CAX-Online-Generator**

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

last change:

Feb 18, 2013