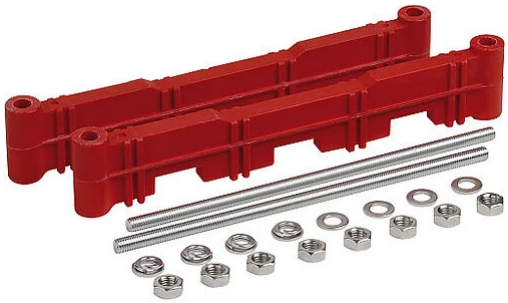
# SPI 42

SA502200





Series of insulators suitable for use as busbar carrier elements in three-phase and three-phase plus neutral systems. The series consists of two families, each divided into four different sizes dimensionally related to the busbar sections: four for the three-phase system and four for the three-phase plus neutral system. The busbar insulator consists of two cross-bars with housing recesses, the widths of which - adjustable using a simple patented bracket spacer system - allow adaptation to different busbar sections while maintaining constant phase spacing. Supplied with threaded rods, washers and galvanised nuts for frame mounted and cross-bar tightening. Made of polyester or polyamide resin with a high percentage of glass fibres, they ensure long-term resistance to electrodynamic stress caused by fault currents and excellent performance in contaminated environments.

## Technical specifications

| | |
|---|---|
| **Functional characteristics** | |
| Arc resistance | > 120 s - ASTM D-495 |
| Tracking resistance | > 300 min - ASTM D-2303 |
| Shock resistance | 25 kJ/m² - UNI 6062 |
| Dielectric strength | 12 kV/mm - UNI 4291 |
| Operating voltage | 750 / 900 AC / DC (V) |
| Rated withstand voltage at 50 Hz for 1 min | 3 kV |
| Rated impulse withstand voltage | 8 kV |
| **Operating conditions** | |
| Operating temperature range | -40 ÷ 130 °C |
| **Mechanical features** | |
| Water absorption | < 0,15% - UNI 4292 |
| **Physical features** | |
| Color | Red RAL-3002 |
| Material class | Self-extinguishing, class V0 (3.2 mm) according to UL-94 standard |
| Expansion coefficient | $2x10^{-5}$ °C - UNI 6061 |
| **Overall dimensions** | |
| Height (A) | 47 mm |
| Width (B) | 297 mm |
| **Other dimensions** | |
| Dimension - D | 23 mm |
| Dimension - E | 274 mm |
| Dimension - F | 60 mm |
| Dimension - G | 60 mm |

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.



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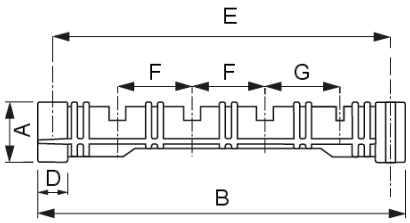
| Dimensions | |
|---|---|
| Dimensions of bars | 50x5 ÷ 100x10 (Phase - one bar systems)<br>50x5 ÷ 100x5 (Phase - two bar systems)<br>50x4 ÷ 100x5 (Neutral - one bar systems) |

## Dimensions

Total View




## Product variants

**SPI 31**
SA497500

**SPI 32**
SA498300

**SPI 33**
SA499100

**SPI 34**
SA500600

**SPI 41**
SA501400

**SPI 43**
SA503000

**SPI 44**
SA504800

## Accessories compatible with the product

**SB 050**
SA484300

**SB 045**
SA483500

**SB 040**
SA482700

**SB 035**
SA481900

**SB 030**
SA480100

**SB 025**
SA479300

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## Reference standards

Compliance with Community Directives:

**• 2014/35/UE (LVD) • 2011/65/UE e 2015/863/UE (ROHS)**

is declared with reference to the following Standards:

**• EN IEC 61439-1 • EN IEC 63000**


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