CP2045-08

SA605300



Series of insulators suitable for use as supports or spacers for electrically active parts such as busbars used in the construction of electrical panels. Made of polyester resin or polyamide with added glass fibres, they ensure long-term mechanical and electrical resistance. The material is anti-hygroscopic and highly self-extinguishing. The insulators feature a female threaded insert in brass or white galvanised steel on both support sides, allowing coupling with the relevant parts via special headless screws. The lower side includes a hexagonal band for fastening.

Technical specifications

Functional characteristics	
Arc resistance	> 180 s - ASTM D-495
Tracking resistance	3 W/min - ASTM D-2302
Operating voltage	600 AC / DC (V)
Minimum internal discharge voltage	25 AC (kV)
Rated withstand voltage at 50 Hz for 1 min	8 kV
Operating conditions	
Operating temperature range	-40 ÷ 130 °C
Mechanical features	
Water absorption	< 0,2% - ASTM D-570
Tensile stress	400 daN
Bending stress	100 daN
Physical features	
Color	Red RAL-3002
Material class	Self-extinguishing, class V0 (1.6 mm) according to UL-94 standard
Material	Polyamide
Overall dimensions	
Height (A)	45 mm
Other dimensions	
Dimension - D	10 mm
Diameter dimension	
Dimension Ø - A	20 mm
Dimension Ø - B	M8 mm

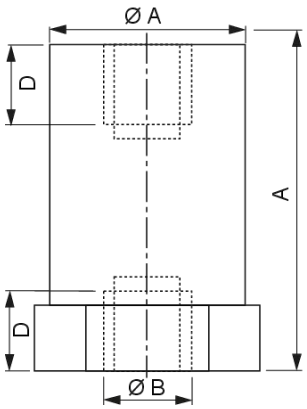
Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical 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

Total View



Product variants

CP2016-08
SA583200

CP2020-08
SA588100

CP2025-08
SA592300

CP2030-08
SA596400

CP2035-08
SA599800

CP2040-08
SA602000

CP2050-08
SA608700

CP3030-08
SA610300

CP3035-08
SA612900

CP3040-08
SA614500

CP3045-08
SA616000

CP3050-08
SA618600

CP3055-08
SA620200

CP3060-08
SA622800

CP3065-08
SA624400

CP3070-08
SA626900

CP4030-08
SA627700

CP4035-08
SA629300

CP4040-08
SA631900

CP4045-08
SA634300

CP4050-08
SA637600

CP4055-08
SA640000

CP4060-08
SA646700

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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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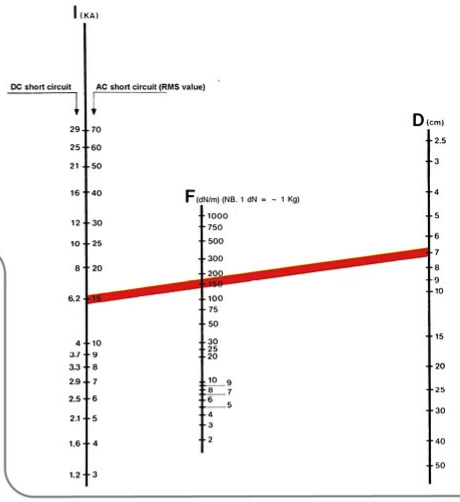
TECHNICAL GUIDE

ELECTRODYNAMIC FORCES BETWEEN CONDUCTORS

Nomogram 1

Determination of force **F** per unit length

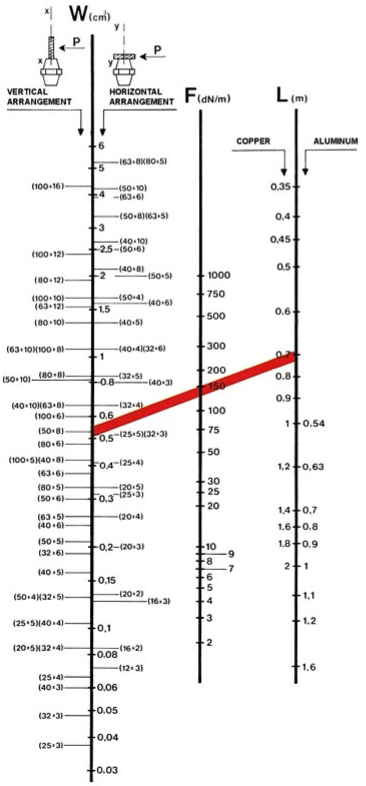
Required data: I = short-circuit current
D = distance between phases
Example: Isc = 15 kA (AC) D = 7 cm
result obtained from the nomogram: F ≅ 150 daN/m



Nomogram 2

Determinaton of distance **L** between supports

Required data: F = force per unit length
(obtained from the previous nomogram)
W = longitudinal and transverse section modulus of the busbars according to X-X oppure Y-Y respectively
(obtainable based on the dimensions and arrangement of the busbar, whether horizontal or vertical)
Example: F ≅ 150 daN/m W = 0,5 cm³
(50 x 8 vertical arrangement)
result obtained deducibile dal nomogramma: L ≅ 0,7 m



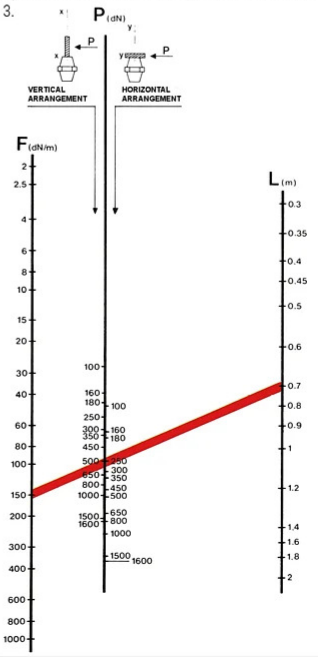
Nomogram 3

Determination of the minimum cantilever breaking load **P**

Required data: F = force per unit length
L = distance between supports (obtained from the previous nomogram)

Esempio: F ≅ 150 daN/m L ≅ 0,7 m (vertical arrangement)
result obtained from the nomogram:
P ≅ 500 daN
(for vertically arranged busbar system)

Once the value of load P is determined, the suitable insulator can be identified by checking the specific tables for each item (cantilever breaking load columns) for a value greater than or equal to the one obtained from Nomogram 3.



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