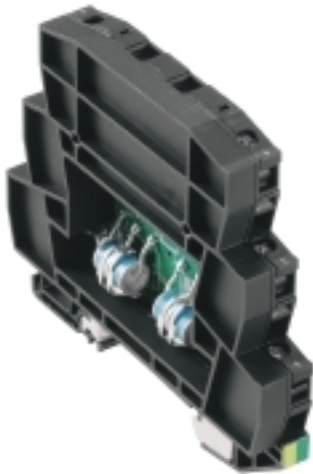


**VSSC6 GDT 240VAC/DC20KA****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Surge protection with individual components  
With gas-discharge tubes in terminal design  
Gas-discharge tubes / sparkover gaps (GDT) are designed with a terminal shape. They are approved for a maximum DC voltage, which is printed on the component. Any voltage greater than the amount specified is safely discharged within about 10-100µs. Gas arresters can be used for high-power applications.

**General ordering data**

|            |                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Surge protection for instrumentation and control,<br>Surge protection for measurement and control,<br>$U_P(L/N-PE) \leq 1900\text{ V}$ |
| Order No.  | <a href="#">1064720000</a>                                                                                                             |
| Type       | VSSC6 GDT 240VAC/DC20KA                                                                                                                |
| GTIN (EAN) | 4032248830008                                                                                                                          |
| Qty.       | 5 pc(s).                                                                                                                               |

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**Technical data****Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 81 mm   | Depth (inches)  | 3.189 inch |
| Height     | 88.5 mm | Height (inches) | 3.484 inch |
| Width      | 12.4 mm | Width (inches)  | 0.488 inch |
| Net weight | 58.8 g  |                 |            |

**Temperatures**

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
| Humidity            | 5...96 %       |                       |                |

**Probability of failure**

|                                   |       |                 |          |
|-----------------------------------|-------|-----------------|----------|
| SIL in compliance with IEC 61508  | 3     | MTTF            | 11,416 a |
| SFF                               | 100 % | $\lambda_{ges}$ | 10       |
| PFH in $1 \cdot 10^{-9}$ per hour | 0     |                 |          |

**CSA protection data**

|                                 |           |                               |      |
|---------------------------------|-----------|-------------------------------|------|
| Gas group C                     | IIB       | Gas group D                   | IIA  |
| Gas groups A, B                 | IIC       | Input current, max. $I_i$     | 12 A |
| Input voltage, max. $U_i$       | 407 V     | Internal capacity, max. $C_i$ | 0 nF |
| Internal inductance, max. $L_i$ | 0 $\mu$ H |                               |      |

**General data**

|                 |       |                   |      |
|-----------------|-------|-------------------|------|
| Number of poles | 1     | Protection degree | IP20 |
| Colour          | black |                   |      |

**Insulation coordination acc. to EN 50178**

|                    |   |                        |     |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

**Rated data IEC / EN**

|                                                   |                       |                                                    |                       |
|---------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------|
| Capacitance                                       | 2.4 nF                | Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 20 kA                 |
| Discharge current $I_n$ (8/20 $\mu$ s) wire-PE    | 5 kA                  | Discharge current, max. (8/20 $\mu$ s)             | 20 kA                 |
| Lightning test current $I_{imp}$ (10/350 $\mu$ s) | 2.5 kA                | Lightning test current, $I_{imp}$ (10/350 $\mu$ s) | 1 kA                  |
| Max. continuous voltage, $U_c$ (AC)               | 288 V                 | Wire-PE                                            | 1 kA                  |
| Number of poles                                   | 1                     | Max. continuous voltage, $U_c$ (DC)                | 407 V                 |
| Protection level $U_p$ (typ.)                     | $\leq 1900$ V         | Overload - failure mode                            | Modus 2               |
| Rated voltage (AC)                                | 240 V                 | Rated current $I_N$                                | 12 A                  |
| Requirements category acc. to IEC 61643-21        | C2, C3, D1            | Rated voltage (DC)                                 | 339 V                 |
| Surge current-carrying capacity C2                | 5 kA 8/20 $\mu$ s     | Standards                                          | IEC 61643-21          |
| Surge current-carrying capacity D1                | 2.5 kA 10/350 $\mu$ s | Surge current-carrying capacity C3                 | 100 A 10/1000 $\mu$ s |
| Volume resistance                                 | $<0.1 \Omega$         | Voltage type                                       | AC/DC                 |

**Further details of approvals**

|                  |                 |
|------------------|-----------------|
| GOST certificate | GOST-Zertifikat |
|------------------|-----------------|

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## Technical data

## Connection data

|                                                            |                     |                                                            |                   |
|------------------------------------------------------------|---------------------|------------------------------------------------------------|-------------------|
| Stripping length                                           | 10 mm               | Type of connection                                         | Screw connection  |
| Tightening torque, min.                                    | 0.5 Nm              | Tightening torque, max.                                    | 0.8 Nm            |
| Clamping range, min.                                       | 0.5 mm <sup>2</sup> | Clamping range, max.                                       | 4 mm <sup>2</sup> |
| Wire cross-section, solid, min.                            | 0.5 mm <sup>2</sup> | Wire cross-section, solid, max.                            | 6 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 4 mm <sup>2</sup> |
| Connection cross-section, stranded, min.                   | 0.5 mm <sup>2</sup> | Connection cross-section, stranded, max.                   | 4 mm <sup>2</sup> |

## Electrical data

|              |       |
|--------------|-------|
| Voltage type | AC/DC |
|--------------|-------|

## Ratings IECEx/ATEX/cUL

|                 |                 |
|-----------------|-----------------|
| cUL certificate | cUL Certificate |
|-----------------|-----------------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 7.0    | EC000943    | ETIM 8.0    | EC000943    |
| ETIM 9.0    | EC000943    | ETIM 10.0   | EC000943    |
| ECLASS 12.0 | 27-17-15-01 | ECLASS 13.0 | 27-17-15-01 |
| ECLASS 14.0 | 27-17-15-01 | ECLASS 15.0 | 27-17-15-01 |

## Tender specification sheets

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Long specification | Feed-through terminal, 12.4mm wide with sparkover gap between the two signal lines and the mounting rail potential, TS 35 contact base. A signal with max. 12A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked. | Short specification                                                                                                                                  |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Feed-through terminal with sparkover gaps (GDT) between two signal lines and the mounting rail potential, TS 35 contact base. Version: 240 V UC 20kA |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Important note

|                     |                                                                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product information | Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit. |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



Approvals MAMID

[https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319227/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319227/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319238/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319238/-T1z1mm-S800/)

ROHS

Conform

**Downloads**

Approval/Certificate/Document of Conformity

[SIL Paper](#)[EU\\_Konformitätserklärung / EU\\_Declaration\\_of\\_Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

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# Drawings



Similar to illustration

