



Contactor, Size 8, 2-pole, DC-3 and 5, 220 A Auxiliary switch 22 (2 NO + 2 NC)  
48V DC DC operation

|                                                                                                              |                          |
|--------------------------------------------------------------------------------------------------------------|--------------------------|
| product designation                                                                                          | Contactor                |
| product type designation                                                                                     | 3TC                      |
| <b>General technical data</b>                                                                                |                          |
| size of contactor                                                                                            | 8                        |
| product extension                                                                                            |                          |
| • function module for communication                                                                          | No                       |
| • auxiliary switch                                                                                           | Yes                      |
| insulation voltage rated value                                                                               | 1 000 V                  |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 660 V                    |
| shock resistance at rectangular impulse                                                                      |                          |
| • at DC                                                                                                      | 12g / 5 ms, 5,5g / 10 ms |
| mechanical service life (operating cycles)                                                                   |                          |
| • of contactor typical                                                                                       | 10 000 000               |
| • of the contactor with added auxiliary switch block typical                                                 | 10 000 000               |
| reference code according to IEC 81346-2                                                                      | Q                        |
| Substance Prohibitance (Date)                                                                                | 03/01/2017               |
| SVHC substance name                                                                                          | Blei - 7439-92-1         |
| <b>Ambient conditions</b>                                                                                    |                          |
| ambient temperature                                                                                          |                          |
| • during operation                                                                                           | -25 ... +55 °C           |
| • during storage                                                                                             | -50 ... +80 °C           |
| relative humidity minimum                                                                                    | 10 %                     |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum                                               | 95 %                     |
| <b>Main circuit</b>                                                                                          |                          |
| number of poles                                                                                              | 2                        |
| number of poles for main current circuit                                                                     | 2                        |
| number of NO contacts for main contacts                                                                      | 2                        |
| number of NC contacts for main contacts                                                                      | 0                        |
| type of voltage                                                                                              | DC                       |
| operational current                                                                                          |                          |
| • at 1 current path at DC-1                                                                                  |                          |
| — at 24 V rated value                                                                                        | 220 A                    |
| — at 110 V rated value                                                                                       | 220 A                    |
| — at 220 V rated value                                                                                       | 220 A                    |
| • with 2 current paths in series at DC-1                                                                     |                          |
| — at 24 V rated value                                                                                        | 220 A                    |
| — at 110 V rated value                                                                                       | 220 A                    |
| — at 220 V rated value                                                                                       | 220 A                    |
| — at 440 V rated value                                                                                       | 220 A                    |

|                                                                |                |
|----------------------------------------------------------------|----------------|
| — at 600 V rated value                                         | 220 A          |
| — at 750 V rated value                                         | 220 A          |
| ● <b>at 1 current path at DC-3 at DC-5</b>                     |                |
| — at 24 V rated value                                          | 220 A          |
| — at 110 V rated value                                         | 220 A          |
| — at 220 V rated value                                         | 220 A          |
| ● <b>with 2 current paths in series at DC-3 at DC-5</b>        |                |
| — at 24 V rated value                                          | 220 A          |
| — at 110 V rated value                                         | 220 A          |
| — at 220 V rated value                                         | 220 A          |
| — at 440 V rated value                                         | 220 A          |
| — at 600 V rated value                                         | 220 A          |
| — at 750 V rated value                                         | 170 A          |
| <b>operating power</b>                                         |                |
| ● <b>at DC-1</b>                                               |                |
| — at 110 V rated value                                         | 24 kW          |
| — at 220 V rated value                                         | 48 kW          |
| — at 440 V rated value                                         | 97 kW          |
| — at 750 V rated value                                         | 165 kW         |
| ● <b>at DC-3 at DC-5</b>                                       |                |
| — at 110 V rated value                                         | 20 kW          |
| — at 220 V rated value                                         | 41 kW          |
| — at 440 V rated value                                         | 82 kW          |
| — at 600 V rated value                                         | 110 kW         |
| — at 750 V rated value                                         | 110 kW         |
| <b>operating frequency</b>                                     |                |
| ● at DC-1 maximum                                              | 1 000 1/h      |
| ● at DC-3 maximum                                              | 600 1/h        |
| ● at DC-5 maximum                                              | 600 1/h        |
| <b>Control circuit/ Control</b>                                |                |
| <b>type of voltage of the control supply voltage</b>           | DC             |
| <b>control supply voltage at DC</b>                            |                |
| ● rated value                                                  | 48 V           |
| <b>closing power of magnet coil at DC</b>                      | 30 W           |
| <b>holding power of magnet coil at DC</b>                      | 30 W           |
| closing delay at DC                                            | 120 ... 400 ms |
| opening delay at DC                                            | 22 ... 35 ms   |
| <b>arcing time</b>                                             | 20 ... 30 ms   |
| <b>Auxiliary circuit</b>                                       |                |
| <b>number of NC contacts for auxiliary contacts</b>            | 2              |
| ● instantaneous contact                                        | 2              |
| <b>number of NO contacts for auxiliary contacts</b>            | 2              |
| ● instantaneous contact                                        | 2              |
| number of CO contacts for auxiliary contacts                   | 0              |
| <b>identification number and letter for switching elements</b> | 22             |
| operational current at AC-12 maximum                           | 10 A           |
| <b>operational current at AC-15</b>                            |                |
| ● at 230 V rated value                                         | 5.6 A          |
| ● at 400 V rated value                                         | 3.6 A          |
| ● at 500 V rated value                                         | 2.5 A          |
| <b>operational current at DC-12</b>                            |                |
| ● at 24 V rated value                                          | 10 A           |
| ● at 48 V rated value                                          | 10 A           |
| ● at 60 V rated value                                          | 10 A           |
| ● at 110 V rated value                                         | 8 A            |
| ● at 125 V rated value                                         | 6 A            |
| ● at 220 V rated value                                         | 2 A            |
| ● at 600 V rated value                                         | 0.4 A          |
| <b>operational current at DC-13</b>                            |                |
| ● at 24 V rated value                                          | 10 A           |
| ● at 48 V rated value                                          | 5 A            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                              | 5 A<br>2.4 A<br>2.1 A<br>1.1 A<br>0.21 A                                                                                                                                        |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                 |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A600 / P600                                                                                                                                                                     |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                 |
| <b>design of the fuse link</b> <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                                                                                                                 | 3NE1332-4D (400 A) (750 V, 6 kA)<br>3NE1332-4D (400 A) (750 V, 6 kA)<br>gG: 16 A (500 V, 1 kA)                                                                                  |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface |
| <b>fastening method</b> <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | screw fixing<br>Yes                                                                                                                                                             |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 240 mm                                                                                                                                                                          |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 135 mm                                                                                                                                                                          |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 236 mm                                                                                                                                                                          |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 20 mm<br>0 mm<br>10 mm<br>10 mm<br>10 mm<br><br>70 mm<br>0 mm<br>10 mm<br>10 mm<br>10 mm<br><br>70 mm<br>0 mm<br>10 mm<br>10 mm<br>10 mm                                        |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                 |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | screw-type terminals<br>screw-type terminals<br>screw-type terminals                                                                                                            |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                            | 2x (1 ... 2.5 mm²)<br>2x (0.75 ... 1.5 mm²)                                                                                                                                     |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                 |
| product function mirror contact according to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes                                                                                                                                                                             |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IP00; IP20 with box terminal/cover                                                                                                                                              |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | finger-safe, for vertical contact from the front with cover                                                                                                                     |
| <b>Certificates/ approvals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                 |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Functional Safety/Safety of Machinery</b>                                                                                                                                    |



[Confirmation](#)



[Type Examination Certificate](#)

| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|---------------------------------------|---------------------------|-------------------|
|---------------------------------------|---------------------------|-------------------|

[Type Examination Certificate](#)



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[Miscellaneous](#)

| other | Railway | Dangerous Good |
|-------|---------|----------------|
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#### Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TC5217-0AW4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC5217-0AW4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0AW4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3TC5217-0AW4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC5217-0AW4&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3TC5217-0AW4/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC5217-0AW4&objecttype=14&gridview=view1>



