

withdrawable circuit breaker 3-pole, size 1 In=1250A to 500V, 50/60Hz AC Icu=66kA at 500V with mechanical lockout device with tripped signaling switch with tripped indicators with guide frame rated short-time current strength ICW 66kA/S, 3-pole Overcurrent release ETU37WT LSING Setting range according to FS with display Motorized/manual operating mechanism with memory with electrical and mechanical activation Motor and electr. calling for 24 V DC Activation solenoid 24 V DC With 1st auxiliary release Undervoltage release "R", F3 24 V DC instantaneous With 2nd auxiliary release Shunt release "F", F2 24 V DC switch position-dependent 1st + 2nd auxiliary current switch block 2 NO + 2 NC - 2 CO With door sealing frame with sealing cap against unauthorized switching off

| Model                                                                                                                               |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| product brand name                                                                                                                  | SENTRON                                                            |
| product designation                                                                                                                 | 3WT air circuit breaker                                            |
| design of the product                                                                                                               | IEC 60947-2                                                        |
| design of the actuating element                                                                                                     | Pushbutton                                                         |
| type of the driving mechanism                                                                                                       | Motorized operating mechanism 24 V DC, activation solenoid 24 V DC |
| type of the driving mechanism motor drive                                                                                           | Yes                                                                |
| design of the overcurrent release                                                                                                   | ETU37WT                                                            |
| General technical data                                                                                                              |                                                                    |
| number of poles                                                                                                                     | 3                                                                  |
| Field of application                                                                                                                | CIRCUIT BREAKER                                                    |
| size of the circuit-breaker                                                                                                         | I                                                                  |
| mechanical service life (operating cycles) typical                                                                                  | 10 000                                                             |
| electrical endurance (operating cycles) typical                                                                                     | 6 000                                                              |
| utilization category                                                                                                                | B                                                                  |
| Diken-export Let-through current                                                                                                    | DS_3WT8                                                            |
| Country code                                                                                                                        | EN                                                                 |
| circuit-breaker Design                                                                                                              | 3WT8                                                               |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750                                          | Q                                                                  |
| Voltage                                                                                                                             |                                                                    |
| Rated operational voltage Ue max.                                                                                                   | 500 V                                                              |
| Rated insulation voltage Ui                                                                                                         | 1 000 V                                                            |
| <ul style="list-style-type: none"> <li>insulation voltage rated value</li> <li>insulation voltage (Ui) at AC rated value</li> </ul> | 690 V<br>1 000 V                                                   |
| surge voltage resistance rated value                                                                                                | 12 kV                                                              |
| operating voltage                                                                                                                   |                                                                    |
| <ul style="list-style-type: none"> <li>at AC at 50/60 Hz rated value</li> </ul>                                                     | 500 V                                                              |
| Protection class                                                                                                                    |                                                                    |
| protection class IP                                                                                                                 | IP20                                                               |
| protection function of the overcurrent release                                                                                      | LSING                                                              |
| Main circuit                                                                                                                        |                                                                    |
| operating frequency 1 rated value                                                                                                   | 50 Hz                                                              |
| Auxiliary circuit                                                                                                                   |                                                                    |
| number of CO contacts for auxiliary contacts                                                                                        | 2                                                                  |
| number of NC contacts for auxiliary contacts                                                                                        | 2                                                                  |
| number of NO contacts for auxiliary contacts                                                                                        | 2                                                                  |
| operational current of auxiliary contacts at AC-15 at 230 V                                                                         | 6 A                                                                |
| Suitability                                                                                                                         |                                                                    |
| suitability for use                                                                                                                 | Line / motor protection                                            |
| <ul style="list-style-type: none"> <li>disconnecting means</li> </ul>                                                               | Yes                                                                |
| Adjustable parameters                                                                                                               |                                                                    |
| adjustable current response value current of the current-dependent overload release initial value                                   | 500 A                                                              |

| Product details                                                     |  |                                                                                                                         |
|---------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------|
| product component                                                   |  |                                                                                                                         |
| • auxiliary switch                                                  |  | Yes                                                                                                                     |
| • voltage trigger                                                   |  | No                                                                                                                      |
| • undervoltage release                                              |  | Yes                                                                                                                     |
| product extension optional motor drive                              |  | No                                                                                                                      |
| Product function                                                    |  |                                                                                                                         |
| product function                                                    |  |                                                                                                                         |
| • of thermal overload trip unit                                     |  | adjustable                                                                                                              |
| • grounding protection                                              |  | Yes                                                                                                                     |
| • for neutral conductors short-circuit and overload proof           |  | Yes                                                                                                                     |
| • overload protection                                               |  | Yes                                                                                                                     |
| Short circuit                                                       |  |                                                                                                                         |
| operating short-circuit current breaking capacity (Ics)             |  |                                                                                                                         |
| • at 240 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 415 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 500 V rated value                                              |  | 66 kA                                                                                                                   |
| maximum short-circuit current breaking capacity (Icu)               |  |                                                                                                                         |
| • at 240 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 400 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 415 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 440 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 480 V rated value                                              |  | 66 kA                                                                                                                   |
| • at 500 V rated value                                              |  | 66 kA                                                                                                                   |
| Connections                                                         |  |                                                                                                                         |
| arrangement of electrical connectors for main current circuit       |  | Main connection horizontal on rear (IEC 947-2 standard)                                                                 |
| type of connectable conductor cross-sections for auxiliary contacts |  |                                                                                                                         |
| • solid                                                             |  | 1x (0.5 ... 2.5) mm2; 1x AWG 14                                                                                         |
| • finely stranded with core end processing                          |  | 2x 1.0 mm2                                                                                                              |
| type of electrical connection for main current circuit              |  | busbar connection                                                                                                       |
| Mechanical Design                                                   |  |                                                                                                                         |
| fastening method                                                    |  | drawer unit                                                                                                             |
| mounting position                                                   |  | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back |
| Environmental conditions                                            |  |                                                                                                                         |
| ambient temperature during operation                                |  |                                                                                                                         |
| • minimum                                                           |  | -20 °C                                                                                                                  |
| • maximum                                                           |  | 70 °C                                                                                                                   |
| ambient temperature during storage                                  |  |                                                                                                                         |
| • minimum                                                           |  | -40 °C                                                                                                                  |
| • maximum                                                           |  | 80 °C                                                                                                                   |
| Certificates                                                        |  |                                                                                                                         |
| reference code                                                      |  |                                                                                                                         |
| • according to EN 61346-2                                           |  | Q                                                                                                                       |
| • according to IEC 81346-2                                          |  | Q                                                                                                                       |
| General Product Approval                                            |  | Declaration of Conformity                                                                                               |



[Confirmation](#)



| Test Certificates | other | Dangerous Good | Environment |
|-------------------|-------|----------------|-------------|
|-------------------|-------|----------------|-------------|

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## Further information

### Information on the packaging

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

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

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WT8121-6GH54-5AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WT8121-6GH54-5AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WT8121-6GH54-5AA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WT8121-6GH54-5AA2)

### CAX-Online-Generator

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

### Tender specifications

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



