

fixed-mounted circuit breaker 3-pole, size 1 In=1600A to 500V, 50/60Hz AC Icu=66kA at 500V with mechanical lockout device with tripped signaling switch with tripped indicators Overcurrent release ETU35WT LSI Setting range according to FS with display With manual operating mechanism with memory with mechanical calling without 1st auxiliary release without 2nd auxiliary release With door sealing frame

| 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 | Manual operating mechanism with stored energy feature, with mechanical closing |
| type of the driving mechanism motor drive | No |
| design of the overcurrent release | ETU35WT |
| 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"> insulation voltage rated value insulation voltage (Ui) at AC rated value | 690 V 1 000 V |
| surge voltage resistance rated value | 12 kV |
| operating voltage <ul style="list-style-type: none"> at AC at 50/60 Hz rated value | 500 V |
| Protection class | |
| protection class IP | IP20 |
| protection function of the overcurrent release | LSI |
| Main circuit | |
| operating frequency 1 rated value | 50 Hz |
| Auxiliary circuit | |
| number of CO contacts for auxiliary contacts | 0 |
| 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 <ul style="list-style-type: none"> disconnecting means | Line / motor protection Yes |
| Adjustable parameters | |
| adjustable current response value current of the current-dependent overload release initial value | 640 A |
| Product details | |
| product component <ul style="list-style-type: none"> auxiliary switch | Yes |

| | |
|--|-----|
| • voltage trigger | No |
| • undervoltage release | No |
| product extension optional motor drive | Yes |

Product function

| | |
|---|------------|
| product function | |
| • of thermal overload trip unit | adjustable |
| • grounding protection | No |
| • for neutral conductors short-circuit and overload proof | No |
| • 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) mm ² ; 1x AWG 14 |
| • finely stranded with core end processing | 2x 1.0 mm ² |
| type of electrical connection for main current circuit | busbar connection |

Mechanical Design

| | |
|-------------------|---|
| fastening method | fixed mounting |
| 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 |

Approvals Certificates

General Product Approval

[Confirmation](#)



EG-Konf.



[Miscellaneous](#)

| General Product Approval | other | Environment |
|--------------------------|-------|-------------|
|--------------------------|-------|-------------|



[Miscellaneous](#)

[Miscellaneous](#)

[Confirmation](#)

[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)

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=3WT8161-5AA00-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WT8161-5AA00-0AA2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WT8161-5AA00-0AA2

CAx-Online-Generator

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

Tender specifications

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

last modified:

4/19/2021 

