



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) BUSBAR CONNECTION

| Model  |   |                             |
|--|---|-----------------------------|
| product brand name   |   | SENTRON                     |
| Product designation  |   | Molded case circuit breaker |
| Design of the product  |   | Line protection             |
| Product variations   |   | Selective Applications      |
| Ground fault monitoring version  |   | Without                     |
| Design of the auxiliary release  |   | without auxiliary release   |
| Design of the auxiliary switch   |   | Without                     |
| Design of the operating mechanism  |   | toggle handle               |
| Type of the driving mechanism / motor drive  |   | No                          |
| Design of the overcurrent release  |   | ETU850                      |
| General technical data   |   |                             |
| Number of poles  |   | 4                           |
| Trip class / of the L-trip / with I <sup>2</sup> t characteristic / initial value    |   | 0.5                         |
| Trip class / of the L-trip / with I <sup>2</sup> t characteristic / Full-scale value |   | 25                          |
| Electrical endurance (switching cycles)  |   | 12 000                      |
| • at AC-1 / at 380/415 V / at 50/60 Hz   |   |                             |
| circuit-breaker / Design   |   | 3VA                         |
| Mechanical service life (switching cycles) / typical                                 |   | 20 000                      |
| Voltage  |   |                             |
| Insulation voltage / Rated value   | V | 800                         |
| Protection class   |   |                             |

|   |  |      |
|---|--|------|
| <b>Protection class IP</b>                            |  | IP40 |
| Protection class IP / on the front                    |  | IP40 |
| <b>Protective function of the overcurrent release</b> |  | LSI  |

### Switching capacity

|  |  |   |
|--|--|---|
| <b>Switching capacity class of the circuit breaker</b> |  | C |
|--|--|---|

### Dissipation

|   |   |     |
|---|---|-----|
| <b>Active power loss</b>                                    |   |     |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul> | W | 5.4 |

### Electricity

|  |   |     |
|--|---|-----|
| <b>Continuous current / Rated value / maximum</b>  | A | 100 |
| Continuous current / Rated value   | A | 63  |
| Adjustable response value current / of the instantaneous short-circuit release / initial value | A | 1.5 |

### Main circuit

|  |   |     |
|--|---|-----|
| <b>Operating voltage</b>   |   |     |
| <ul style="list-style-type: none"> <li>• with AC / at 50/60 Hz / Rated value</li> </ul>  | V | 690 |
| <b>Operating current</b>   |   |     |
| <ul style="list-style-type: none"> <li>• at 40 °C / Rated value</li> <li>• at 50 °C / Rated value</li> <li>• at 60 °C / Rated value</li> <li>• at 65 °C / Rated value</li> <li>• at 70 °C / Rated value</li> </ul> | A | 63  |
|  | A | 63  |
|  | A | 63  |
|  | A | 63  |
|  | A | 63  |

### Auxiliary circuit

|   |  |   |
|---|--|---|
| <b>Number of NC contacts / for auxiliary contacts</b> |  | 0 |
| <b>Number of NO contacts / for auxiliary contacts</b> |  | 0 |

### Suitability

|                            |  |                   |
|----------------------------|--|-------------------|
| <b>Suitability for use</b> |  | system protection |
|----------------------------|--|-------------------|

### Adjustable parameters

|  |   |      |
|--|---|------|
| <b>Adjustable response value current</b>   |   |      |
| <ul style="list-style-type: none"> <li>• of I-trip / Full-scale value</li> <li>• of the short-time delayed short-circuit release / initial value</li> <li>• of the short-time delayed short-circuit release / Full-scale value</li> <li>• of S-trip / with standard characteristic / initial value</li> <li>• of S-trip / with standard characteristic / Full-scale value</li> </ul> | A | 12   |
|  | A | 0.6  |
|  | A | 10   |
|  | A | 0.6  |
|  | A | 10   |
| <b>Adjustable delay time</b>   |   |      |
| <ul style="list-style-type: none"> <li>• of S-trip / with I2t characteristic / initial value</li> </ul>  | s | 0.05 |

|  |   |      |
|--|---|------|
| • of S-trip / with I2t characteristic / Full-scale value   | s | 0.5  |
| • of S-trip / with standard characteristic / initial value   | s | 0.05 |
| • of S-trip / with standard characteristic / Full-scale value  | s | 0.5  |
| <b>Adjustable response value current / of the current-dependent overload release / initial value</b> | A | 0.4  |

### Product details

|  |  |     |
|--|--|-----|
| <b>Product component</b>   |  |     |
| • Trip indicator   |  | No  |
| • display  |  | Yes |
| • undervoltage release   |  | No  |
| <b>Product property</b>  |  |     |
| • for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof |  | No  |
| Product expansion / optional / motor drive   |  | Yes |

### Product function

|                               |  |     |
|-------------------------------|--|-----|
| <b>Product function</b>       |  |     |
| • Intrinsic device protection |  | Yes |
| • communication function      |  | Yes |
| • Phase failure detection     |  | No  |
| • other measurement function  |  | Yes |

### Accessories

|   |  |                                    |
|---|--|------------------------------------|
| <b>Manufacturer article number / of the supplied basic switch</b> |  | <a href="#">3VA2063-7KP42-0AA0</a> |
|---|--|------------------------------------|

### Short circuit

|  |    |     |
|--|----|-----|
| <b>Operational short-circuit current breaking capacity (Ics)</b> |    |     |
| • at 240 V / Rated value   | kA | 150 |
| • at 415 V / Rated value   | kA | 110 |
| • at 440 V / Rated value   | kA | 110 |
| • at 500 V / Rated value   | kA | 85  |
| • at 690 V / Rated value   | kA | 2   |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>     |    |     |
| • at 240 V / Rated value   | kA | 150 |
| • at 415 V / Rated value   | kA | 110 |
| • at 440 V / Rated value   | kA | 110 |
| • at 500 V / Rated value   | kA | 85  |
| • at 690 V / Rated value   | kA | 2   |
| <b>Short-circuit current making capacity (Icm)</b>               |    |     |

- at 240 V / Rated value
- at 415 V / Rated value
- at 440 V / Rated value
- at 500 V / Rated value
- at 690 V / Rated value

|    |     |
|----|-----|
| kA | 330 |
| kA | 242 |
| kA | 242 |
| kA | 187 |
| kA | 3   |

### Connections

|  |  |                |
|--|--|----------------|
| Arrangement of electrical connectors / for main current circuit  |  | Front terminal |
| Type of connectable conductor cross-section  |  | 13 x 1 mm      |
| <ul style="list-style-type: none"> <li>• for flat-bar terminal connection / minimum</li> <li>• for flat-bar terminal connection / maximum</li> </ul> |  | 25 x 8.5       |
| Type of electrical connection / for main current circuit   |  | Lug terminal   |

### Mechanical Design

|               |    |                |
|---------------|----|----------------|
| Height        | mm | 181            |
| Width         | mm | 140            |
| Depth         | mm | 107            |
| Mounting type |    | fixed mounting |

### Environmental conditions

|  |    |     |
|--|----|-----|
| <b>Ambient temperature</b>   |    |     |
| <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul> | °C | -25 |
|  | °C | 70  |
|  | °C | -40 |
|  | °C | 80  |

### Certificates

|  |  |   |
|--|--|---|
| <b>Equipment marking</b>   |  |   |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to DIN EN 81346-2</li> </ul> |  | Q |
|  |  | Q |

|                                 |            |                                  |                          |
|---------------------------------|------------|----------------------------------|--------------------------|
| <b>General Product Approval</b> | <b>EMC</b> | <b>Declaration of Conformity</b> | <b>Shipping Approval</b> |
|---------------------------------|------------|----------------------------------|--------------------------|



[other](#)



|                          |              |
|--------------------------|--------------|
| <b>Shipping Approval</b> | <b>other</b> |
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