



CIRCUIT BREAKER 3VT4 HIGH BREAKING CAPACITY ICU=65KA, 415V AC 3-POLE; CIRCUIT BREAKER W/O OVERCURRENT RELEASE W/O AUXILIARY TRIP UNIT W/O AUXILIARY/ALARM SWITCH WITHDRAWABLE VERSION

| Model | | |
|--|-----|-------------------------------------|
| product brandname | | SENTRON |
| Product designation | | 3VT1_5 molded case circuit breakers |
| Design of the operating mechanism | | toggle handle |
| Type of the driving mechanism / motor drive | | No |
| General technical data | | |
| Number of poles | | 3 |
| Size of the circuit-breaker | | 3VT4 |
| Electrical endurance (switching cycles) / typical | | 4 000 |
| Usage category | | A |
| Performance class for circuit breaker | | H |
| Mechanical service life (switching cycles) / typical | | 10 000 |
| Operating frequency / maximum | 1/h | 120 |
| Voltage | | |
| Insulation voltage / rated value | V | 690 |
| Surge voltage resistance / rated value | kV | 8 |
| Protection class | | |
| Protection class IP | | IP40 |

Dissipation

Power loss [W]

| | | |
|--|---|------|
| • for rated value of the current / at AC / in hot operating state / per pole | W | 33.3 |
| • maximum | W | 100 |

Electricity

| | | |
|--|----|-------|
| Continuous current / rated value | A | 1 000 |
| Derating temperature / for the rated value of the continuous current | °C | 50 |

Main circuit

Operating frequency

| | | |
|-------------------|----|----|
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |

Operating voltage

| | | |
|---|---|-----|
| • rated value / maximum | V | 690 |
| • for main current circuit / at AC / at 50 Hz / maximum | V | 690 |
| • for main current circuit / at AC / at 60 Hz / maximum | V | 690 |
| • for main current circuit / at DC / maximum | V | 440 |

Operating current

| | | |
|--------------------------|---|-------|
| • at 40 °C / rated value | A | 1 000 |
| • at 50 °C / rated value | A | 1 000 |
| • at 55 °C / rated value | A | 1 000 |
| • at 60 °C / rated value | A | 1 000 |
| • at 65 °C / rated value | A | 980 |
| • at 70 °C / rated value | A | 980 |

Auxiliary circuit

| | | |
|--|--|---|
| Number of CO contacts / for auxiliary contacts | | 0 |
| Number of NC contacts / for auxiliary contacts | | 0 |
| Number of NO contacts / for auxiliary contacts | | 0 |

Suitability

Suitability for use

| | |
|-----------------------|------------------------------|
| • Disconnecting means | Contact unit without release |
| | Yes |

Product details

Product component

| | |
|------------------------|----|
| • Trip indicator | No |
| • Auxiliary switch | No |
| • Voltage trigger | No |
| • undervoltage release | No |

| | | |
|---|--|-----|
| • undervoltage release with leading contact | | No |
| Product extension / optional / motor drive | | Yes |

Product function

| | | |
|---|--|----|
| Product function | | |
| • Ground fault protection | | No |
| • for neutral conductors / Short-circuit and overload proof | | No |
| • Phase failure detection | | No |
| • Overload protection | | No |

Short circuit

| | | |
|--|----|----|
| Operational short-circuit current breaking capacity (Ics) | | |
| • at 240 V / rated value | kA | 45 |
| • at 415 V / rated value | kA | 36 |
| • at 500 V / rated value | kA | 30 |
| • at 690 V / rated value | kA | 20 |
| Maximum short-circuit current breaking capacity (Icu) | | |
| • at 240 V / rated value | kA | 85 |
| • at 415 V / rated value | kA | 65 |
| • at 500 V / rated value | kA | 45 |
| • at 690 V / rated value | kA | 20 |

Connections

| | | |
|---|--|--------------------------------|
| Arrangement of electrical connectors / for main current circuit | | front side |
| Type of electrical connection / for main current circuit | | without connection accessoires |

Mechanical Design

| | | |
|--------------------------|----|---|
| Height | mm | 494 |
| Width | mm | 210 |
| Depth | mm | 157 |
| Mounting position | | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back |
| Mounting type | | drawer unit |
| Net weight | kg | 23 |

Environmental conditions

| | | |
|------------------------------|----|-----|
| Ambient temperature | | |
| • during operation / minimum | °C | -40 |
| • during operation / maximum | °C | 70 |
| • during storage / minimum | °C | -40 |
| • during storage / maximum | °C | 70 |

Certificates

last modified:

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