

CIRCUIT BREAKER 3VT3 STANDARD BREAKING CAPACITY
 ICU=36KA, 415V AC 4-POLE; CIRCUIT BREAKER W/O
 OVERCURRENT RELEASE N SWITCHED WITHOUT AUXILIARY
 RELEASE WITHOUT AUXILIARY/ALARM SWITCH



Figure similar

| 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 | 4 |
| Size of the circuit-breaker | 3VT3 |
| Electrical endurance (switching cycles) / typical | 5 000 |
| Usage category | A |
| Performance class for circuit breaker | N |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Operating frequency / maximum | 120 1/h |
| Voltage | |
| Insulation voltage / rated value | 690 V |
| Surge voltage resistance / rated value | 8 kV |

| Protection class | |
|--|------------------------------|
| Protection class IP | IP40 |
| Dissipation | |
| Power loss [W] | |
| <ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole | 25 W |
| <ul style="list-style-type: none"> • maximum | 75 W |
| Electricity | |
| Continuous current / rated value | 630 A |
| Derating temperature / for the rated value of the continuous current | 55 °C |
| Main circuit | |
| Operating frequency | |
| <ul style="list-style-type: none"> • 1 / rated value | 50 Hz |
| <ul style="list-style-type: none"> • 2 / rated value | 60 Hz |
| Operating voltage | |
| <ul style="list-style-type: none"> • rated value / maximum | 690 V |
| <ul style="list-style-type: none"> • for main current circuit / at AC / at 50 Hz / maximum | 690 V |
| <ul style="list-style-type: none"> • for main current circuit / at AC / at 60 Hz / maximum | 690 V |
| <ul style="list-style-type: none"> • for main current circuit / at DC / maximum | 440 V |
| Operating current | |
| <ul style="list-style-type: none"> • at 40 °C / rated value | 630 A |
| <ul style="list-style-type: none"> • at 50 °C / rated value | 630 A |
| <ul style="list-style-type: none"> • at 55 °C / rated value | 600 A |
| <ul style="list-style-type: none"> • at 60 °C / rated value | 600 A |
| <ul style="list-style-type: none"> • at 65 °C / rated value | 540 A |
| <ul style="list-style-type: none"> • at 70 °C / rated value | 540 A |
| Suitability | |
| Suitability for use | Contact unit without release |
| <ul style="list-style-type: none"> • Disconnecting means | Yes |
| Product details | |
| Product component | |
| <ul style="list-style-type: none"> • Trip indicator | No |
| <ul style="list-style-type: none"> • Auxiliary switch | No |
| <ul style="list-style-type: none"> • Voltage trigger | No |
| <ul style="list-style-type: none"> • undervoltage release | No |
| <ul style="list-style-type: none"> • 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 | 40 kA |
| • at 415 V / rated value | 18 kA |
| • at 500 V / rated value | 10 kA |
| • at 690 V / rated value | 8 kA |

Maximum short-circuit current breaking capacity (Icu)

- | | |
|--------------------------|-------|
| • at 240 V / rated value | 60 kA |
| • at 415 V / rated value | 36 kA |
| • at 500 V / rated value | 20 kA |
| • at 690 V / rated value | 15 kA |

Connections

- | | |
|---|----------------------|
| Arrangement of electrical connectors / for main current circuit | front side |
| Type of electrical connection / for main current circuit | screw-type terminals |

Mechanical Design

- | | |
|-------------------|---|
| Height | 275 mm |
| Width | 185 mm |
| Depth | 117 mm |
| Mounting position | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back |
| Mounting type | fixed mounting |
| Net weight | 7.4 kg |

Environmental conditions

Ambient temperature

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

Certificates

Equipment marking

- | | |
|--------------------------|---|
| • acc. to DIN EN 61346-2 | Q |
| • acc. to DIN EN 81346-2 | Q |

