

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 630 breaking capacity class E Icu=200 kA @ 415 V 4-pole, line protection ETU350, LSI, In=630 A overload protection Ir=250 A ...630 A short-circuit protection Isd=1.5...9xIr, li=9x In neutral conductor protection adjustable (OFF, 50%, 100%) nut keeper kit



| Model                                                                                                  |                             |
|--------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                     | SENTRON                     |
| product designation                                                                                    | Molded case circuit breaker |
| design of the product                                                                                  | Line protection             |
| design of the overcurrent release                                                                      | ETU350                      |
| protection function of the overcurrent release                                                         | LSI                         |
| number of poles                                                                                        | 4                           |
| General technical data                                                                                 |                             |
| insulation voltage / rated value                                                                       | 800 V                       |
| operating voltage / at AC / rated value                                                                | 690 V                       |
| power loss [W] / maximum                                                                               | 162 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole            | 54 W                        |
| mechanical service life (operating cycles) / typical                                                   | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                       | 5 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                           | 3 500                       |
| product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof | No                          |
| ground-fault monitoring version                                                                        | Without                     |
| product function                                                                                       |                             |
| • communication function                                                                               | No                          |
| • other measurement function                                                                           | No                          |
| Net Weight                                                                                             | 6.35 kg                     |
| Current                                                                                                |                             |
| operational current                                                                                    |                             |
| • at 40 °C                                                                                             | 630 A                       |
| • at 45 °C                                                                                             | 612 A                       |
| • at 50 °C                                                                                             | 593 A                       |
| • at 55 °C                                                                                             | 575 A                       |
| • at 60 °C                                                                                             | 557 A                       |
| • at 65 °C                                                                                             | 538 A                       |
| • at 70 °C                                                                                             | 520 A                       |
| Switching capacity according to IEC 60947                                                              |                             |
| switching capacity class of the circuit breaker                                                        | E                           |
| maximum short-circuit current breaking capacity (Icu)                                                  |                             |
| • at 415 V                                                                                             | 200 kA                      |

|                                                                                  |                  |
|----------------------------------------------------------------------------------|------------------|
| <ul style="list-style-type: none"> <li>• at 690 V</li> </ul>                     | 85 kA            |
| operating short-circuit current breaking capacity (Ics)                          |                  |
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 690 V</li> </ul> | 200 kA<br>65 kA  |
| short-circuit current making capacity (Icm)                                      |                  |
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 690 V</li> </ul> | 440 kA<br>187 kA |

#### Adjustable parameters

|                                                                                          |                           |
|------------------------------------------------------------------------------------------|---------------------------|
| product feature / for L-tripping / can be switched on/off                                | No                        |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic |                           |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>           | 250 A<br>630 A            |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic     |                           |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>           | 0.5 s<br>12 s             |
| adjustable response value setting current (Isd) / of S-trip / with I2t characteristic    |                           |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>           | 375 A<br>5 670 A          |
| adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic    |                           |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>           | 0.0001 s<br>0.4 s         |
| adjustable response value setting current (Ii) / for I-tripping                          |                           |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>           | 5 670 A<br>5 670 A        |
| adjustable setting current (InN) / for N-tripping                                        |                           |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>           | 125 A<br>630 A            |
| design of the N-conductor protection                                                     | adjustable OFF; 50%; 100% |
| product function / grounding protection                                                  | No                        |

#### Mechanical Design

|                                                                                                                               |                |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|
| product component                                                                                                             |                |
| <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• voltage trigger</li> <li>• trip indicator</li> </ul> | No<br>No<br>No |
| height [in]                                                                                                                   | 9.76 in        |
| height                                                                                                                        | 248 mm         |
| width [in]                                                                                                                    | 7.24 in        |
| width                                                                                                                         | 184 mm         |
| depth [in]                                                                                                                    | 4.33 in        |
| depth                                                                                                                         | 110 mm         |

#### Connections

|                                                                                           |                              |
|-------------------------------------------------------------------------------------------|------------------------------|
| arrangement of electrical connectors / for main current circuit                           | Front terminal               |
| type of electrical connection / for main current circuit                                  | on both sides nut keeper kit |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 20 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 35 x 10 mm                   |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)        | silver                       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)     | silver                       |

#### Auxiliary circuit

|                                                |   |
|------------------------------------------------|---|
| number of CO contacts / for auxiliary contacts | 0 |
|------------------------------------------------|---|

#### Accessories

|                                            |     |
|--------------------------------------------|-----|
| product extension / optional / motor drive | Yes |
|--------------------------------------------|-----|

#### Environmental conditions

|                                    |      |
|------------------------------------|------|
| protection class IP / on the front | IP40 |
|------------------------------------|------|

|                              |        |
|------------------------------|--------|
| ambient temperature          |        |
| • during operation / minimum | -25 °C |
| • during operation / maximum | 70 °C  |
| • during storage / minimum   | -40 °C |
| • during storage / maximum   | 80 °C  |

#### Environmental footprint

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| global warming potential [CO2 eq] / total                | 495 kg          |
| global warming potential [CO2 eq] / during manufacturing | 28.7 kg         |
| global warming potential [CO2 eq] / during operation     | 470 kg          |
| global warming potential [CO2 eq] / after end of life    | -4.07 kg        |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |

#### Approvals / Certificates

##### General Product Approval



[Miscellaneous](#)



| EMV | Test Certificates | Maritime application | other |
|-----|-------------------|----------------------|-------|
|-----|-------------------|----------------------|-------|



[Miscellaneous](#)

[Special Test Certificate](#)

[CCS \(China Classification Society\)](#)



[Confirmation](#)

| other | Dangerous goods | Environment |
|-------|-----------------|-------------|
|-------|-----------------|-------------|

[Miscellaneous](#)

[Transport Information](#)



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[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

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

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2463-0HN42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2463-0HN42-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2463-0HN42-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2463-0HN42-0AA0)

##### CAX-Online-Generator

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

##### Tender specifications

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





