

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole, line protection ETU860, LSIG, In=63 A overload protection Ir=25 A ... 63 A short-circuit protection Isd=0.6...10xIn, li=1.5...12xIn terminal connection



| Model                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                                                    | SENTRON                                 |
| product designation                                                                                   | Molded case circuit breaker             |
| design of the product                                                                                 | Line protection                         |
| design of the overcurrent release                                                                     | ETU860                                  |
| protection function of the overcurrent release                                                        | LSIG                                    |
| number of poles                                                                                       | 3                                       |
| General technical data                                                                                |                                         |
| insulation voltage / rated value                                                                      | 800 V                                   |
| operating voltage / at AC / rated value                                                               | 690 V                                   |
| power loss [W] / maximum                                                                              | 3.1 W                                   |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 1.03 W                                  |
| mechanical service life (operating cycles) / typical                                                  | 25 000                                  |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 14 000                                  |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 9 800                                   |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | Yes                                     |
| ground-fault monitoring version                                                                       | Summation current formation L-conductor |
| product function                                                                                      |                                         |
| • communication function                                                                              | Yes                                     |
| • other measurement function                                                                          | Yes                                     |
| Net Weight                                                                                            | 2.5 kg                                  |
| Current                                                                                               |                                         |
| operational current                                                                                   |                                         |
| • at 40 °C                                                                                            | 63 A                                    |
| • at 45 °C                                                                                            | 63 A                                    |
| • at 50 °C                                                                                            | 63 A                                    |
| • at 55 °C                                                                                            | 63 A                                    |
| • at 60 °C                                                                                            | 63 A                                    |
| • at 65 °C                                                                                            | 63 A                                    |
| • at 70 °C                                                                                            | 63 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>                | 25 A<br>63 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>25 s               |
| adjustable response value setting current (Isd) / of S-trip / with I0t characteristic         |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 37 A<br>630 A               |
| 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>                | 37 A<br>630 A               |
| adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic         |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.05 s<br>0.5 s             |
| 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>                | 0.05 s<br>0.5 s             |
| adjustable response value setting current (Ii) / for I-tripping                               |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 94 A<br>756 A               |
| adjustable current response value current / for G-tripping / with standard characteristic     |                             |
| <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul> | 15 A<br>63 A                |
| adjustable response value delay time (tg) / for G-tripping / with I0t characteristic          |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.05 s<br>0.8 s             |
| adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic     |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 15 A<br>63 A                |
| adjustable response value delay time (tg) / for G-tripping / with I2t characteristic          |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.05 s<br>0.8 s             |
| adjustable setting current (InN) / for N-tripping                                             |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 25 A<br>100 A               |
| design of the N-conductor protection                                                          | adjustable OFF; 40% to 160% |
| product function / grounding protection                                                       | Yes                         |

#### 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]                                                                               | 7.13 in                        |
| height                                                                                    | 181 mm                         |
| width [in]                                                                                | 4.13 in                        |
| type of connectable conductor cross-sections / of the round conductor terminal / stranded | 1 x (6 - 120 mm <sup>2</sup> ) |
| width                                                                                     | 105 mm                         |
| depth [in]                                                                                | 3.39 in                        |
| depth                                                                                     | 86 mm                          |

#### Connections

|                                                                                       |                           |
|---------------------------------------------------------------------------------------|---------------------------|
| arrangement of electrical connectors / for main current circuit                       | Front terminal            |
| type of electrical connection / for main current circuit                              | double-sided box terminal |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)    | tin                       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | tin                       |

#### 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                | 61.814 kg       |
| global warming potential [CO2 eq] / during manufacturing | 14.6 kg         |
| global warming potential [CO2 eq] / during operation     | 48.9 kg         |
| global warming potential [CO2 eq] / after end of life    | -2.2 kg         |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |

#### Approvals / Certificates

##### General Product Approval



[Miscellaneous](#)



| General Product Approval | EMV | Test Certificates | Maritime application |
|--------------------------|-----|-------------------|----------------------|
|--------------------------|-----|-------------------|----------------------|



[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Special Test Certificate](#)



| Maritime application | other | Dangerous goods |
|----------------------|-------|-----------------|
|----------------------|-------|-----------------|



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



[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

#### Environment

### Further information

### Information on the packaging

### Information for data generation and storage

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

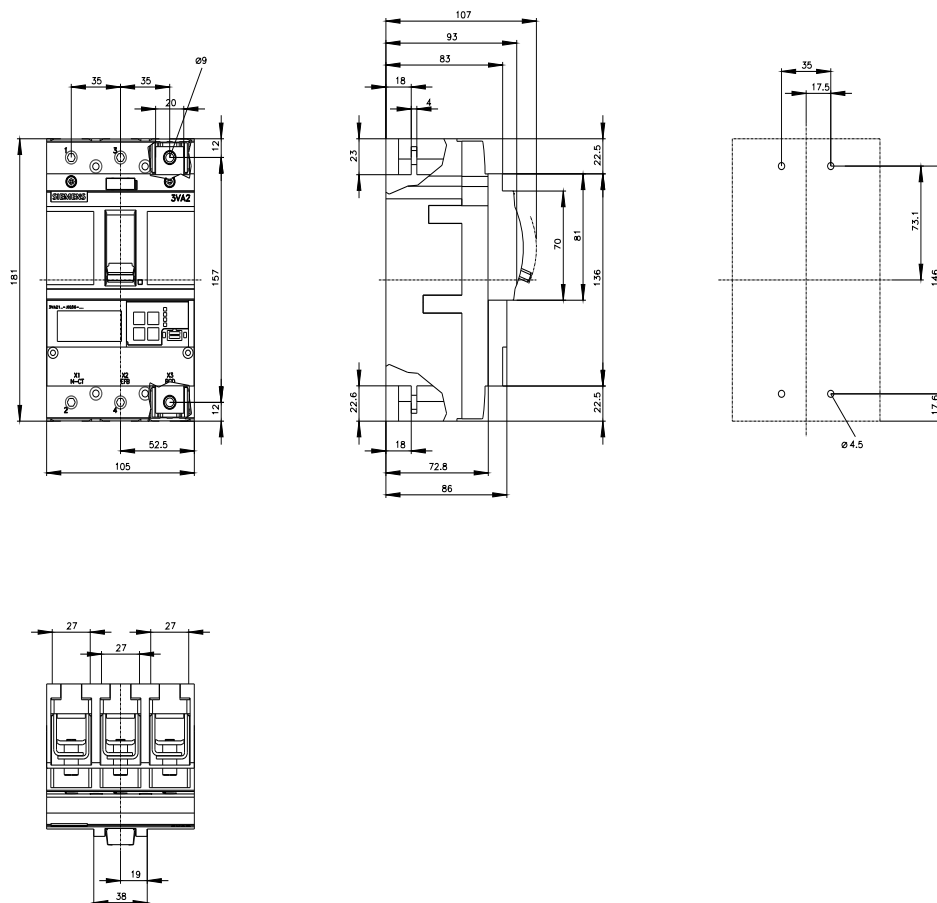
**Industry Mall (Online ordering system)**

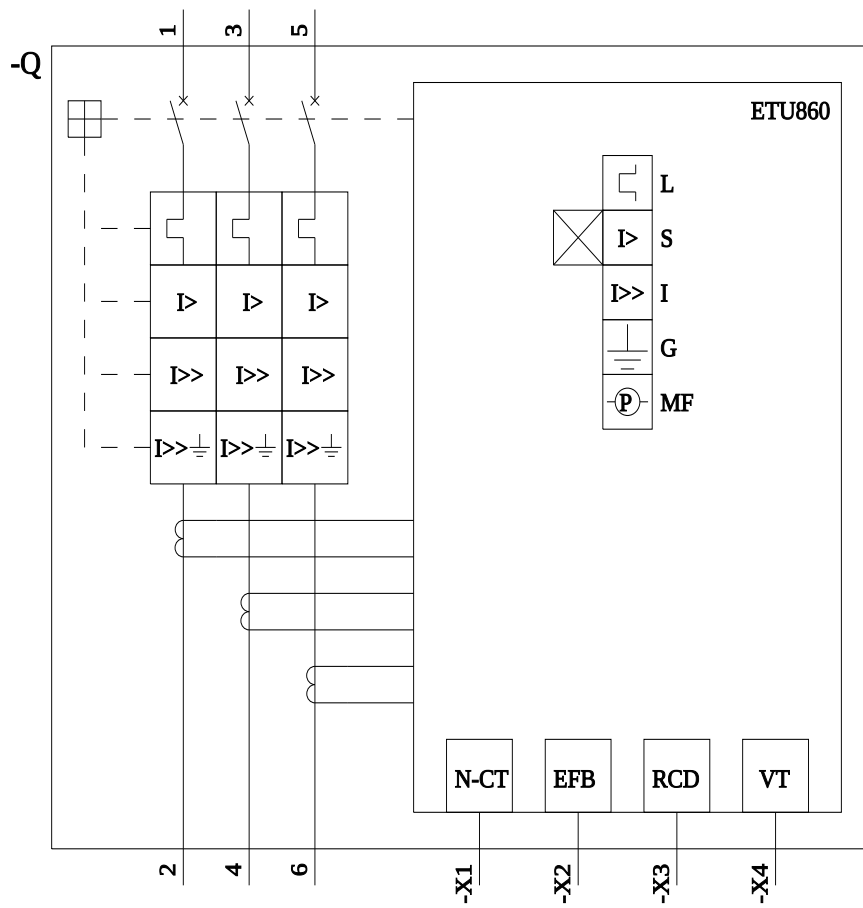
## Service &amp; Support (Manuals, Certificates, Characteristics, FAQs,...)

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

**CAX-Online-Generator**

## Tender specifications





last modified:

5/25/2025

