



Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 100 breaking capacity class H Icu=85 kA @ 415 V  
4-pole, line protection ETU860, LSIG, In=25 A overload protection Ir=10 A...25 A  
short-circuit protection Isd=0.6..10x In, li=1.5..12x In neutral conductor protection  
adjustable (OFF, up to 160%) ground-fault protection, can be switched off  
lg=0.2...1 x In= tg=0.05-0.8s 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                                                                     | ETU860                                      |
| protection function of the overcurrent release                                                        | LSIG                                        |
| 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                                                                              | 0.84 W                                      |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 0.28 W                                      |
| mechanical service life (operating cycles) / typical                                                  | 25 000                                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 15 000                                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 10 500                                      |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                                          |
| ground-fault monitoring version                                                                       | Summation current formation L + N conductor |
| product function                                                                                      |                                             |
| • communication function                                                                              | Yes                                         |
| • other measurement function                                                                          | Yes                                         |
| Net Weight                                                                                            | 2.724 kg                                    |
| Current                                                                                               |                                             |
| operational current                                                                                   |                                             |
| • at 40 °C                                                                                            | 25 A                                        |
| • at 45 °C                                                                                            | 25 A                                        |
| • at 50 °C                                                                                            | 25 A                                        |
| • at 55 °C                                                                                            | 25 A                                        |
| • at 60 °C                                                                                            | 25 A                                        |
| • at 65 °C                                                                                            | 25 A                                        |
| • at 70 °C                                                                                            | 25 A                                        |
| Switching capacity according to IEC 60947                                                             |                                             |
| switching capacity class of the circuit breaker                                                       | H                                           |
| maximum short-circuit current breaking capacity (Icu)                                                 |                                             |
| • at 240 V                                                                                            | 110 kA                                      |

|                                                                                                                                                                                                      |                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                             | 85 kA<br>85 kA<br>55 kA<br>2 kA              |
| operating short-circuit current breaking capacity (Ics) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | 110 kA<br>85 kA<br>85 kA<br>55 kA<br>2 kA    |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>             | 242 kA<br>187 kA<br>187 kA<br>121 kA<br>3 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>                 | 10 A<br>25 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>                    | 15 A<br>250 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>                    | 15 A<br>250 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>                                          | 37 A<br>300 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>25 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>25 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                                                                                                                                       |                 |

|                                         |                             |
|-----------------------------------------|-----------------------------|
| • minimum                               | 10 A                        |
| • maximum                               | 40 A                        |
| design of the N-conductor protection    | adjustable OFF; 40% to 160% |
| product function / grounding protection | Yes                         |

#### Mechanical Design

|                        |         |
|------------------------|---------|
| product component      |         |
| • undervoltage release | No      |
| • voltage trigger      | No      |
| • trip indicator       | No      |
| height [in]            | 7.13 in |
| height                 | 181 mm  |
| width [in]             | 5.51 in |
| width                  | 140 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                                  | on both sides nut keeper kit |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 13 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 25 x 8 mm                    |
| 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](#)



##### EMV

##### Test Certificates

##### Maritime application



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



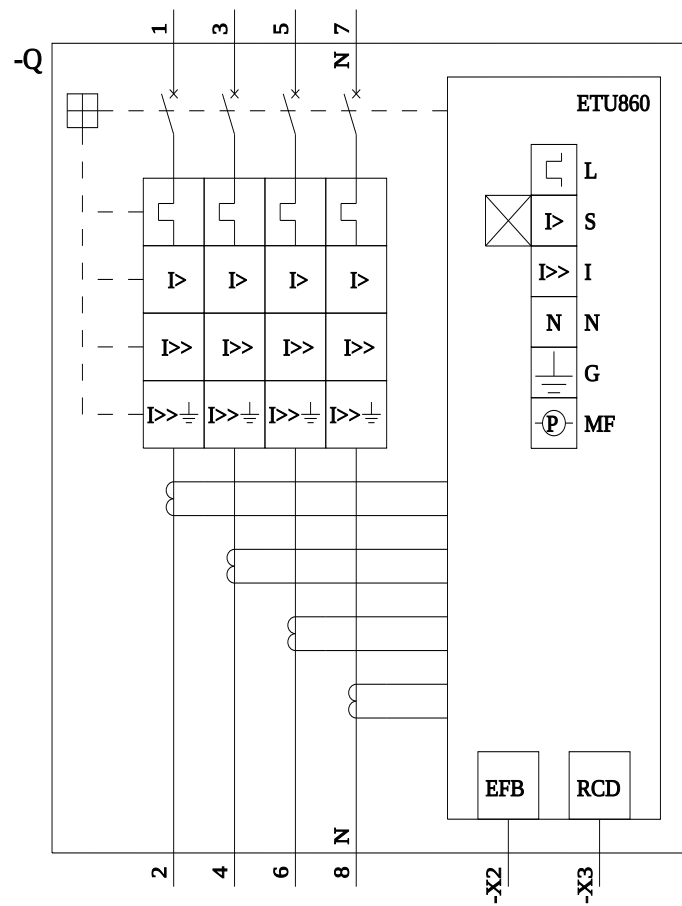
##### Maritime application

##### other



### Environmental Con- firmations

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



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