



MCB Icu=15KA 400V 2P C50

| General technical data   |                                      |
|--|--------------------------------------|
| number of poles  | 2                                    |
| design of pole   | 2P                                   |
| tripping characteristic class  | C                                    |
| mechanical service life (operating cycles) typical   | 10 000                               |
| overvoltage category   | 3                                    |
| degree of pollution  | 3                                    |
| Voltage  |                                      |
| type of voltage of the operating voltage   | AC                                   |
| insulation voltage (Ui)  |                                      |
| <ul style="list-style-type: none"> <li>with multi-phase operation at AC rated value</li> </ul>   | 440 V                                |
| <ul style="list-style-type: none"> <li>operational current                             <ul style="list-style-type: none"> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 55 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul> | 46.35 A<br>42.35 A<br>40.2 A<br>50 A |
| Supply voltage   |                                      |
| supply voltage   |                                      |
| <ul style="list-style-type: none"> <li>at AC</li> <li>at DC rated value</li> </ul>   | 400 V<br>60 V                        |
| value range of the supply voltage frequency  | 50/60 Hz                             |
| operating voltage at DC rated value maximum  | 72 V                                 |
| Protection class   |                                      |
| protection class IP  | IP20, with connected conductors      |
| Breaking Capacity  |                                      |
| switching capacity current   |                                      |
| <ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> </ul>  | 10 kA<br>15 kA                       |
| energy limitation class  | 3                                    |
| Dissipation  |                                      |
| power loss [W] for rated value of the current at AC in hot operating state per pole  | 4.8 W                                |
| suitability for operation  | Infrastructure / Industry            |
| Product details  |                                      |
| product feature touch protection   | Yes                                  |
| product component  |                                      |
| <ul style="list-style-type: none"> <li>combined terminal top</li> <li>combined terminal bottom</li> </ul>  | Yes<br>Yes                           |

|   |     |
|---|-----|
| • neutral conductor switching   | No  |
| <b>product feature properties for main switches in accordance with EN 60204-1</b> | Yes |
| <b>product feature halogen-free</b>   | Yes |
| <b>product feature sealable</b>   | Yes |
| <b>product feature silicon-free</b>   | Yes |
| <b>product extension installable supplementary devices</b>                        | Yes |

### Connections

|   |                      |
|---|----------------------|
| <b>connectable conductor cross-section solid</b>                                    |                      |
| • minimum   | 0.75 mm <sup>2</sup> |
| • maximum   | 35 mm <sup>2</sup>   |
| <b>connectable conductor cross-section stranded</b>                                 |                      |
| • minimum   | 0.75 mm <sup>2</sup> |
| • maximum   | 35 mm <sup>2</sup>   |
| <b>connectable conductor cross-section finely stranded with core end processing</b> |                      |
| • minimum   | 0.75 mm <sup>2</sup> |
| • maximum   | 25 mm <sup>2</sup>   |
| <b>tightening torque [lbf-in] with screw-type terminals</b>                         |                      |
| • minimum   | 22 lbf-in            |
| • maximum   | 31 lbf-in            |
| <b>tightening torque with screw-type terminals</b>                                  |                      |
| • minimum   | 2.5 N·m              |
| • maximum   | 3.5 N·m              |
| <b>position of power supply cord</b>  | Any                  |

### Mechanical Design

|                                      |          |
|--------------------------------------|----------|
| <b>height</b>                        | 90 mm    |
| <b>width</b>                         | 36 mm    |
| <b>depth</b>                         | 76 mm    |
| <b>installation depth</b>            | 70 mm    |
| <b>number of modular width units</b> | 2        |
| <b>fastening method</b>              | DIN rail |
| <b>mounting position</b>             | any      |
| <b>Net Weight</b>                    | 325 g    |

### Environmental conditions

|  |  |
|--|--|
| <b>influence of the surrounding temperature</b>                                    | max. 95% RH up to 55°C   |
| <b>standard</b>  | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077  |
| <b>vibration resistance according to IEC 60068-2-6</b>                             | ±1mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz and 60 m/s <sup>2</sup> at 35 Hz (4 sec) |
| <b>ambient temperature during operation</b>  |  |
| • minimum  | -25 °C   |
| • maximum  | 55 °C  |
| <b>ambient temperature during storage</b>  |  |
| • minimum  | -40 °C   |
| • maximum  | 75 °C  |
| <b>number of test cycles for environmental testing according to IEC 60068-2-30</b> | 28   |

### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|

[Environmental Confirmations](#)



[Environmental Confirmations](#)



[Miscellaneous](#)



|                                 |                             |              |
|---------------------------------|-----------------------------|--------------|
| <b>General Product Approval</b> | <b>Maritime application</b> | <b>other</b> |
|---------------------------------|-----------------------------|--------------|

[Confirmation](#)



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

[Confirmation](#)



[Confirmation](#)

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=5SY4250-7CV>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4250-7CV>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4250-7CV](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4250-7CV)

CAX-Online-Generator

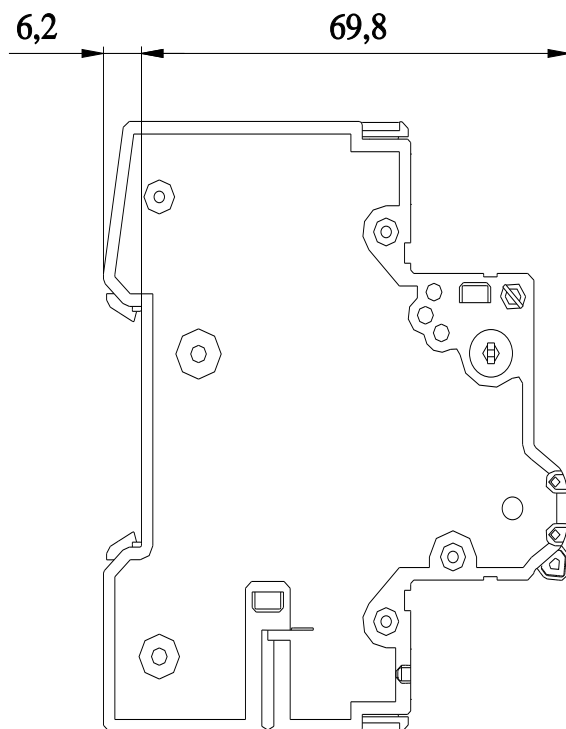
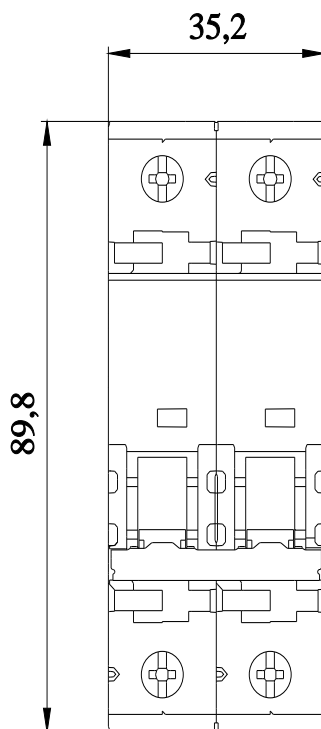
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





CB



