

Miniature circuit breaker 230/400 V 10kA, 1-pole, C, 16A for railway applications



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	For railway applications
General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	C
Mechanical service life (switching cycles) / typical	10 000
Overtoltage category	III
Voltage	
Insulation voltage	
<ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul>	440 V
<ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
Supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	

Type of voltage	AC
Current / at AC / rated value	16 A
Supply voltage	
• at AC / rated value	400 V
Operating voltage	
• at DC / rated value / maximum	72 V
Supply voltage frequency	
• rated value	50/60 Hz

<b>Protection class</b>	
Protection class IP	IP20, with connected conductors

<b>Switching capacity</b>	
Switching capacity current	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	20 kA
Energy limiting class	3

<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.6 W

<b>Current</b>	
Tripping residual / rated value / derated current / at 40 Cel	15.02 A
Suitability for operation	Mechanical engineering / industry

<b>Product details</b>	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

<b>Short circuit</b>	
Breaking capacity short-circuit current (I <sub>cn</sub> )	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA

## Connections

<ul style="list-style-type: none"> <li>• Connectable conductor cross-section           <ul style="list-style-type: none"> <li>— solid</li> <li>— stranded</li> </ul> </li> <li>• Connectable conductor cross-section / finely stranded / with core end processing</li> </ul>	<p>0.75 ... 35 mm<sup>2</sup></p> <p>0.75 ... 35 mm<sup>2</sup></p> <p>0.75 ... 25 mm<sup>2</sup></p>
AWG number / as coded connectable conductor cross section	18 ... 4
Tightening torque [lbf·in] / with screw-type terminals	22 ... 31 lbf·in
Tightening torque / with screw-type terminals	2.5 ... 3.5 N·m
Position / of power supply cord	Any

## Mechanical Design

Height	90 mm
Width	18 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	1
Mounting type	Quick assembly system
Mounting position	any
Net weight	157 g

## Environmental conditions

Influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Ambient temperature <ul style="list-style-type: none"> <li>• during storage</li> </ul>	<p>-40 ... +70 °C</p> <p>-40 ... +75 °C</p>

## Certificates

Reference code <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to DIN EN 81346-2</li> </ul>	<p>F</p> <p>F</p>
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### General Product Approval



[Miscellaneous](#)



[Special Test Certificate](#)

### Shipping Approval



### other

[Miscellaneous](#)

### Railway

[Confirmation](#)

## Further information

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

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

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4116-7KK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4116-7KK11>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4116-7KK11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4116-7KK11)

### CAX-Online-Generator

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

### Tender specifications

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



