



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) CABLE CONNECTION

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
<b>Design of the product</b>		Line protection
<b>Product variations</b>		Selective Applications
<b>Ground fault monitoring version</b>		Without
<b>Design of the auxiliary release</b>		without auxiliary release
<b>Design of the auxiliary switch</b>		Without
<b>Design of the operating mechanism</b>		toggle handle
<b>Type of the driving mechanism / motor drive</b>		No
<b>Design of the overcurrent release</b>		ETU850
General technical data		
<b>Number of poles</b>		4
<b>Trip class / of the L-trip / with I<sup>2</sup>t characteristic / initial value</b>		0.5
<b>Trip class / of the L-trip / with I<sup>2</sup>t characteristic / Full-scale value</b>		25
<b>Electrical endurance (switching cycles)</b>		12 000
• at AC-1 / at 380/415 V / at 50/60 Hz		
<b>circuit-breaker / Design</b>		3VA
<b>Mechanical service life (switching cycles) / typical</b>		20 000
Voltage		
Insulation voltage / Rated value	V	800
Protection class		

<b>Protection class IP</b>		IP40
Protection class IP / on the front		IP40
<b>Protective function of the overcurrent release</b>		LSI

### Switching capacity

<b>Switching capacity class of the circuit breaker</b>		C
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### Dissipation

<b>Active power loss</b>		
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	W	10

### Electricity

<b>Continuous current / Rated value / maximum</b>	A	160
Continuous current / Rated value	A	100
Adjustable response value current / of the instantaneous short-circuit release / initial value	A	1.5

### Main circuit

<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>• with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at 40 °C / Rated value</li> <li>• at 50 °C / Rated value</li> <li>• at 60 °C / Rated value</li> <li>• at 65 °C / Rated value</li> <li>• at 70 °C / Rated value</li> </ul>	A	100
	A	100
	A	100
	A	100
	A	100

### Auxiliary circuit

<b>Number of NC contacts / for auxiliary contacts</b>		0
<b>Number of NO contacts / for auxiliary contacts</b>		0

### Suitability

<b>Suitability for use</b>		system protection
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### Adjustable parameters

<b>Adjustable response value current</b>		
<ul style="list-style-type: none"> <li>• of I-trip / Full-scale value</li> <li>• of the short-time delayed short-circuit release / initial value</li> <li>• of the short-time delayed short-circuit release / Full-scale value</li> <li>• of S-trip / with standard characteristic / initial value</li> <li>• of S-trip / with standard characteristic / Full-scale value</li> </ul>	A	12
	A	0.6
	A	10
	A	0.6
	A	10
<b>Adjustable delay time</b>		
<ul style="list-style-type: none"> <li>• of S-trip / with I2t characteristic / initial value</li> </ul>	s	0.05

• of S-trip / with I2t characteristic / Full-scale value	s	0.5
• of S-trip / with standard characteristic / initial value	s	0.05
• of S-trip / with standard characteristic / Full-scale value	s	0.5
<b>Adjustable response value current / of the current-dependent overload release / initial value</b>	A	0.4

### Product details

<b>Product component</b>		
• Trip indicator		No
• display		Yes
• undervoltage release		No
<b>Product property</b>		
• for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof		No
Product expansion / optional / motor drive		Yes

### Product function

<b>Product function</b>		
• Intrinsic device protection		Yes
• communication function		Yes
• Phase failure detection		No
• other measurement function		Yes

### Accessories

<b>Manufacturer article number / of the supplied basic switch</b>		<a href="#">3VA2110-7KP46-0AA0</a>
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### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
<b>Short-circuit current making capacity (Icm)</b>		

- at 240 V / Rated value
- at 415 V / Rated value
- at 440 V / Rated value
- at 500 V / Rated value
- at 690 V / Rated value

kA	330
kA	242
kA	242
kA	187
kA	3.75

### Connections

Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		1 x (6-120 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• of the round conductor terminal / stranded</li> </ul>		
Type of electrical connection / for main current circuit		Box terminal

### Mechanical Design

Height	mm	181
Width	mm	140
Depth	mm	107
Mounting type		fixed mounting

### Environmental conditions

<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during operation / minimum</li> </ul>	°C	-25
<ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>	°C	70
<ul style="list-style-type: none"> <li>• during storage / minimum</li> </ul>	°C	-40
<ul style="list-style-type: none"> <li>• during storage / maximum</li> </ul>	°C	80

### Certificates

<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>		Q
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>		Q

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>	<b>Shipping Approval</b>
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<b>Shipping Approval</b>	<b>other</b>
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## Further information

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

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

### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21107KP460AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA21107KP460AA0/all>

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

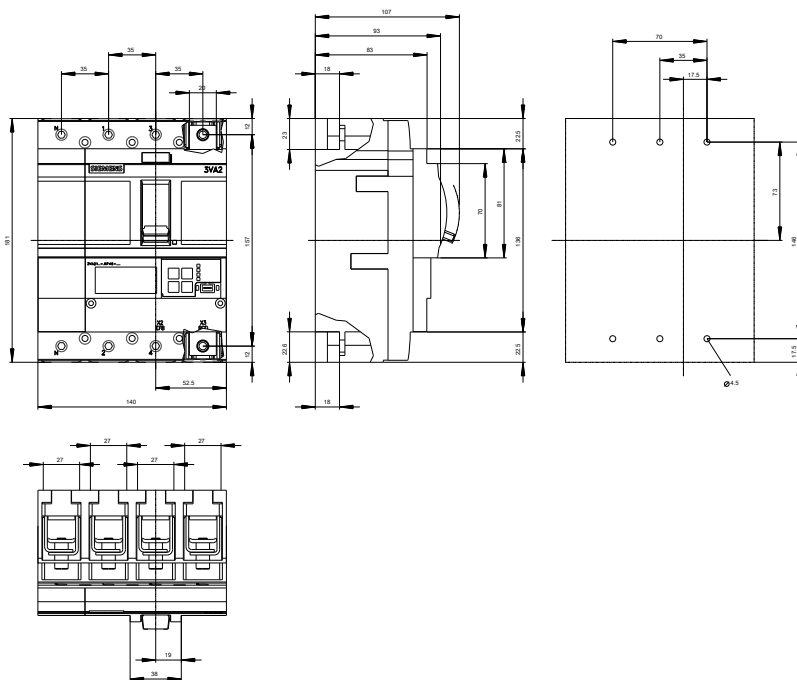
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA21107KP460AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA21107KP460AA0)

### CAX-Online-Generator

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

### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>





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