



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU860, LSIG, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS CABLE CONNECTION

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
Design of the product		Line protection
Product variations		Selective Applications
Ground fault monitoring version		Summation current formation L + N conductor
Design of the auxiliary release		without auxiliary release
Design of the auxiliary switch		Without
Design of the operating mechanism		toggle handle
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU860

General technical data		
Number of poles		4
Trip class / of the L-trip / with I <sup>2</sup> t characteristic / initial value		0.5
Trip class / of the L-trip / with I <sup>2</sup> t characteristic / Full-scale value		25
Electrical endurance (switching cycles) • at AC-1 / at 380/415 V / at 50/60 Hz		12 000
Total disconnection time / for G-tripping / with standard characteristic / initial value	s	0.05
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	s	0.8
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		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>		LSIG
Switching capacity		
<b>Switching capacity class of the circuit breaker</b>		H
Dissipation		
<b>Active power loss</b>		
• maximum	W	5.4
Electricity		
<b>Continuous current / Rated value / maximum</b>	A	100
Continuous current / Rated value	A	63
Adjustable response value current / of the instantaneous short-circuit release / initial value	A	1.5
Main circuit		
<b>Operating voltage</b>		
• with AC / at 50/60 Hz / Rated value	V	690
<b>Operating current</b>		
• at 40 °C / Rated value	A	63
• at 50 °C / Rated value	A	63
• at 60 °C / Rated value	A	63
• at 65 °C / Rated value	A	63
• at 70 °C / Rated value	A	63
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
Adjustable parameters		
<b>Adjustable response value current</b>		
• for G-tripping / with I2t characteristic / initial value	A	0.25
• for G-tripping / with I2t characteristic / Full-scale value	A	1
• for G-tripping / with standard characteristic / initial value	A	0.25
• for G-tripping / with standard characteristic / Full-scale value	A	1

<ul style="list-style-type: none"> <li>• of I-trip / Full-scale value</li> </ul>	A	12
<ul style="list-style-type: none"> <li>• of the short-time delayed short-circuit release / initial value</li> </ul>	A	0.6
<ul style="list-style-type: none"> <li>• of the short-time delayed short-circuit release / Full-scale value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• of S-trip / with standard characteristic / initial value</li> </ul>	A	0.6
<ul style="list-style-type: none"> <li>• of S-trip / with standard characteristic / Full-scale value</li> </ul>	A	10
<b>Adjustable delay time</b>		
<ul style="list-style-type: none"> <li>• for G-tripping / with I2t characteristic / initial value</li> </ul>	s	0.05
<ul style="list-style-type: none"> <li>• for G-tripping / with I2t characteristic / Full-scale value</li> </ul>	s	0.8
<ul style="list-style-type: none"> <li>• of S-trip / with I2t characteristic / initial value</li> </ul>	s	0.05
<ul style="list-style-type: none"> <li>• of S-trip / with I2t characteristic / Full-scale value</li> </ul>	s	0.5
<ul style="list-style-type: none"> <li>• of S-trip / with standard characteristic / initial value</li> </ul>	s	0.05
<ul style="list-style-type: none"> <li>• of S-trip / with standard characteristic / Full-scale value</li> </ul>	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>		
<ul style="list-style-type: none"> <li>• Trip indicator</li> </ul>		No
<ul style="list-style-type: none"> <li>• display</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>		No
<b>Product property</b>		
<ul style="list-style-type: none"> <li>• of the circuit breaker with tripping unit / Tripping characteristic adjustable</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof</li> </ul>		No
Product expansion / optional / motor drive		Yes

### Product function

<b>Product function</b>		
<ul style="list-style-type: none"> <li>• Intrinsic device protection</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• communication function</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• Phase failure detection</li> </ul>		No
<ul style="list-style-type: none"> <li>• other measurement function</li> </ul>		Yes

### Accessories

Manufacturer article number / of the supplied basic switch		<a href="#">3VA2063-6KQ46-0AA0</a>
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### Short circuit

<b>Operational short-circuit current breaking capacity (Ics)</b>		
• at 240 V / Rated value	kA	110
• at 415 V / Rated value	kA	85
• at 440 V / Rated value	kA	85
• at 500 V / Rated value	kA	55
• at 690 V / Rated value	kA	2
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• at 240 V / Rated value	kA	110
• at 415 V / Rated value	kA	85
• at 440 V / Rated value	kA	85
• at 500 V / Rated value	kA	55
• at 690 V / Rated value	kA	2
<b>Short-circuit current making capacity (Icm)</b>		
• at 240 V / Rated value	kA	242
• at 415 V / Rated value	kA	187
• at 440 V / Rated value	kA	187
• at 500 V / Rated value	kA	121
• at 690 V / Rated value	kA	3

### Connections

Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
• of the round conductor terminal / stranded		1 x (6-120 mm <sup>2</sup> )
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>		
• during operation / minimum	°C	-25
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

### Certificates

Equipment marking		
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- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

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<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>	<b>Shipping Approval</b>
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CCC



VDE

[other](#)

EG-Konf.



DNV

<b>Shipping Approval</b>	<b>other</b>
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[other](#)

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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/3VA20636KQ460AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA20636KQ460AA0/all>

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

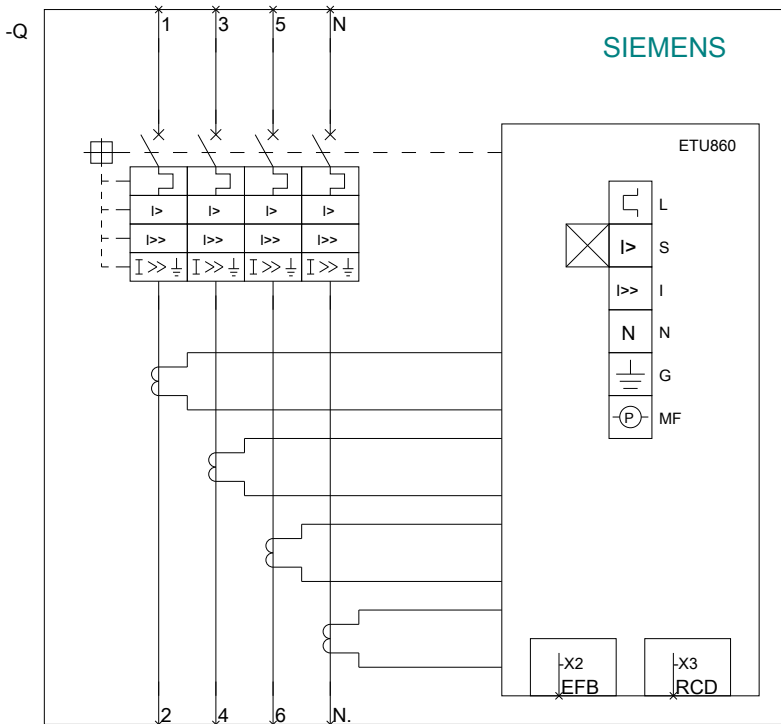
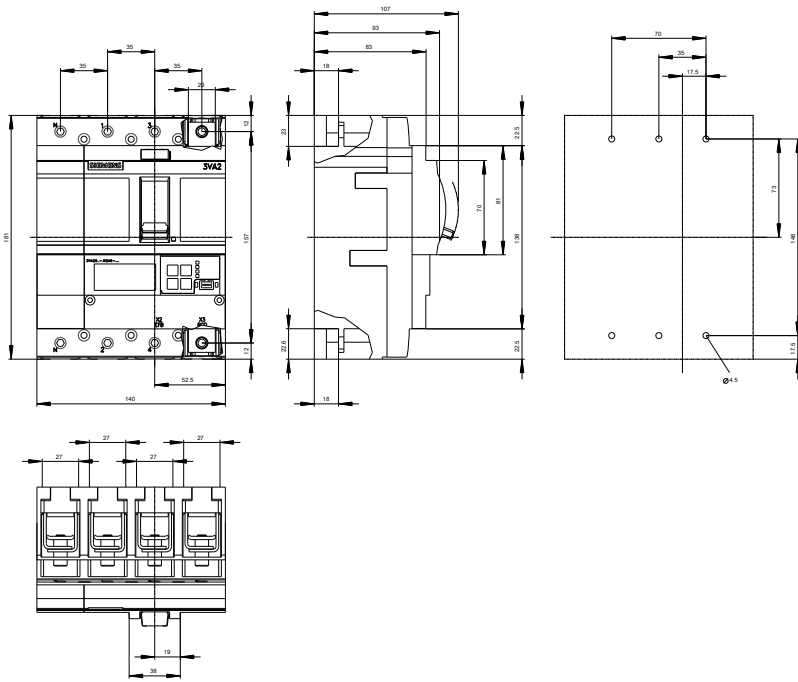
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA20636KQ460AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20636KQ460AA0)

### CAX-Online-Generator

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

### Tender specifications

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



**last modified:**

11.03.2015