# **SIEMENS**

## Data sheet

## 3VA2125-5KP46-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=25A OVERLOAD PROTECTION IR=10A ...25A 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
Design of the product	Line protection
Product variations	Selective Applications
Ground fault monitoring version	Without
Design of the auxiliary release	without auxiliaryrelease
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	ETU850
General technical data	
General technical data	 <u>,                                      </u>

General technical data	
Number of poles	4
Trip class / of the L-trip / with I2t characteristic / initial value	0.5
Trip class / of the L-trip / with I2t characteristic / Full-scale value	25
Electrical endurance (switching cycles)	
• at AC-1 / at 380/415 V / at 50/60 Hz	12 000
circuit-breaker / Design	3VA
Mechanical service life (switching cycles) / typical	20 000

Voltage		
Insulation voltage / Rated value	V	800

### Protection class

Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LSI
C. Habina and the	_	
Switching capacity Switching capacity class of the circuit breaker		M
Switching dapacity class of the circuit breaker		IVI
Dissipation		
Active power loss		
• maximum	W	0.6
Electricity		
Continuous current / Rated value / maximum	Α	160
Continuous current / Rated value	Α	25
Adjustable response value current / of the	Α	1.5
instantaneous short-circuit release / initial value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
• at 40 °C / Rated value	Α	25
• at 50 °C / Rated value	Α	25
• at 60 °C / Rated value	Α	25
• at 65 °C / Rated value	Α	25
• at 70 °C / Rated value	А	25
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
A.P. dalla and a second		
Adjustable parameters  Adjustable response value current		
of I-trip / Full-scale value	Α	12
	A	0.6
<ul> <li>of the short-time delayed short-circuit release / initial value</li> </ul>	A	0.0
<ul> <li>of the short-time delayed short-circuit release / Full-scale value</li> </ul>	Α	10
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	А	0.6
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	А	10
Adjustable delay time		
• of S-trip / with I2t characteristic / initial value	S	0.05

• of S-trip / with I2t characteristic / Full-scale	S	0.5
value		0.05
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	S	0.05
• of S-trip / with standard characteristic / Full-	s	0.5
scale value		
Adjustable response value current / of the current-	Α	0.4
dependent overload release / initial value		
Product details		
Product component		
Trip indicator		No
• display		Yes
undervoltage release		No
Product property		
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
·		163
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
communication function		Yes
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		Yes
Accessories		
Manufacturer article number / of the supplied basic switch		3VA2125-5KP46-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
● at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
● at 415 V / Rated value	kA	55
● at 440 V / Rated value	kA	55
● at 500 V / Rated value	kA	36
<ul><li>at 500 V / Rated value</li><li>at 690 V / Rated value</li></ul>	kA kA	36 2.5

• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 440 V / Rated value	kA	121
• at 500 V / Rated value	kA	79
• at 690 V / Rated value	kA	3.75

Connections	
Arrangement of electrical connectors / for main	Front terminal
current circuit	
Type of connectable conductor cross-section	
<ul><li>of the round conductor terminal / stranded</li></ul>	1 x (6-120 mm²)
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		
Ambient temperature		
<ul><li>during operation / minimum</li></ul>	°C	-25
<ul><li>during operation / maximum</li></ul>	°C	70
<ul><li>during storage / minimum</li></ul>	°C	-40
during storage / maximum	°C	80

Certificates		
Equipment marking		
• acc. to DIN EN 61346-2	Q	
• acc. to DIN EN 81346-2	Q	

General Product Approval	EMC	Declaration of	Shipping
		Conformity	Approval







other C (



Shipping	other
Approval	



other

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## 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/3VA21255KP460AA0

# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21255KP460AA0/all

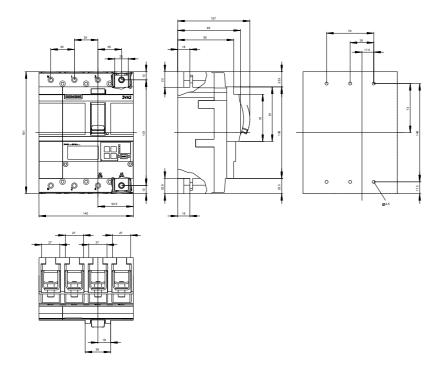
# Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21255KP460AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21255KP460AA0</a>

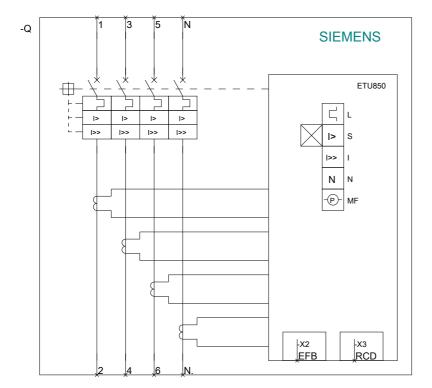
### **CAx-Online-Generator**

http://www.siemens.com/cax

### **Tender specifications**

http://ausschreibungstexte.siemens.com/tiplv





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