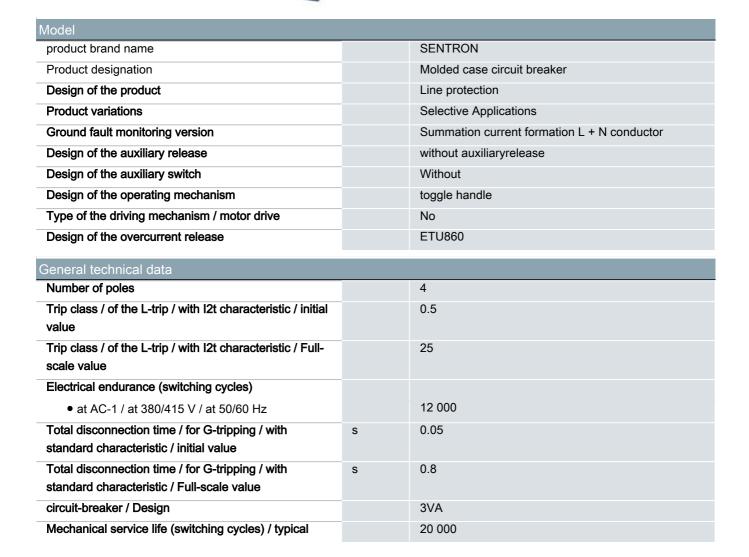
## **SIEMENS**

## Data sheet

## **3VA2125-5KQ46-0AA0** CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE.

CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU860, LSIG, 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%) GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS CABLE CONNECTION



Voltage		
Insulation voltage / Rated value	V	800
Drotation class	_	
Protection class Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LSIG
Switching capacity	_	Μ
Switching capacity class of the circuit breaker		VI
Dissipation		
Active power loss		
• maximum	W	0.6
Electricity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	А	25
Adjustable response value current / of the	А	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	А	25
● at 50 °C / Rated value	А	25
● at 60 °C / Rated value	А	25
● at 65 °C / Rated value	А	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
Adjustable parameters Adjustable response value current		
for G-tripping / with I2t characteristic / initial	А	0.6
value		
• for G-tripping / with I2t characteristic / Full-scale	А	1
value		
<ul> <li>for G-tripping / with standard characteristic /</li> </ul>	А	0.6
initial value		
<ul> <li>for G-tripping / with standard characteristic /</li> </ul>	A	1
Full-scale value		

<ul> <li>of I-trip / Full-scale value</li> </ul>	А	12
<ul> <li>of the short-time delayed short-circuit release / initial value</li> </ul>	A	0.6
<ul> <li>of the short-time delayed short-circuit release / Full-scale value</li> </ul>	A	10
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	A	0.6
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	A	10
Adjustable delay time	_	
<ul> <li>for G-tripping / with I2t characteristic / initial value</li> </ul>	S	0.05
<ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> </ul>	S	0.8
<ul> <li>of S-trip / with I2t characteristic / initial value</li> </ul>	s	0.05
<ul> <li>of S-trip / with I2t characteristic / Full-scale value</li> </ul>	S	0.5
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	S	0.05
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	S	0.5
Adjustable response value current / of the current-	А	0.4
dependent overload release / initial value		
Product details		
Product component		
Trip indicator		No
• display		Yes
• undervoltage release		No
Product property		
<ul> <li>of the circuit breaker with tripping unit / Tripping characteristic adjustable</li> </ul>		Yes
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
communication function		Yes
<ul> <li>Phase failure detection</li> </ul>		No

other measurement function

Accessories

Yes

Manufacturer article number / of the supplied basic switch

Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
<ul> <li>at 240 V / Rated value</li> </ul>	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
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)		
• 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			
Environmental conditions Ambient temperature			
	°C	-25	
Ambient temperature	°C °C	-25 70	

• during storage / maximum °C

Certificates

Equipment marking

80

<ul><li>acc. to DIN</li><li>acc. to DIN</li></ul>				Q Q		
General Prod	uct Approval		EM	С	Declaration of Conformity	Shipping Approval
	VDE	EAC		other	EG-Konf.	
Shipping Approval	other					
	other					

GL

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/3VA21255KQ460AA0

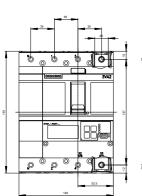
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21255KQ460AA0/all

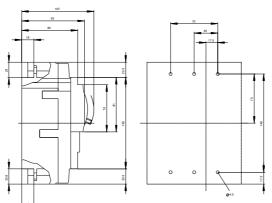
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21255KQ460AA0

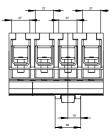
CAx-Online-Generator http://www.siemens.com/cax

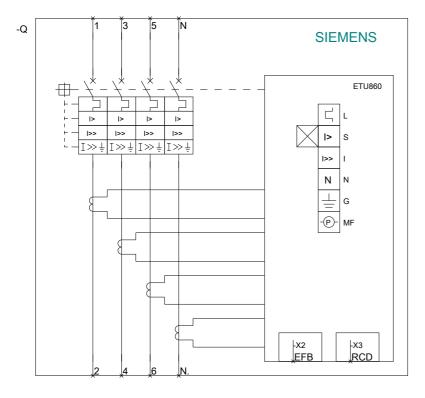
## Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









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