# **SIEMENS**

#### Data sheet

### 3VA2025-6JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU560, 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 BUSBAR 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 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	ETU560

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		
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	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		LSIG		
Switching capacity Switching capacity class of the circuit breaker		Н		
Switching capacity class of the circuit breaker		"		
Dissipation				
Active power loss				
• maximum	W	0.84		
Electricity				
Continuous current / Rated value / maximum	А	100		
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	Α	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	Α	0.6		
value	, ,	0.0		
for G-tripping / with I2t characteristic / Full-scale	Α	1		
value				
• for G-tripping / with standard characteristic /	Α	0.6		
initial value				
• for G-tripping / with standard characteristic /	Α	1		
Full-scale value				

● of I-trip / Full-scale value	Α	12
<ul> <li>of the short-time delayed short-circuit release / initial value</li> </ul>	Α	0.6
<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>	Α	0.6
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	Α	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
• of S-trip / with I2t characteristic / initial value	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- dependent overload release / initial value	A	0.4
Product details		
Product component		
Trip indicator		No
<ul><li>display</li></ul>		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
<ul> <li>communication function</li> </ul>		Yes

Accessories

• Phase failure detection

• other measurement function

No No

Manufacturer article number / of the supplied basic		3VA2025-6JQ42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		440
• 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
Maximum short-circuit current breaking capacity (Icu)		
• 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
Short-circuit current making capacity (Icm)		
• 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		
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		13 x 1 mm
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		25 x 8.5
Type of electrical connection / for main current circuit		Lug 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
<ul><li>during storage / maximum</li></ul>	°C	80

#### Certificates **Equipment marking** • acc. to DIN EN 61346-2 Q Q • acc. to DIN EN 81346-2 **General Product Approval EMC Declaration of Shipping** Conformity **Approval** other

**Shipping** other **Approval** 

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/3VA20256JQ420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20256JQ420AA0/all

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

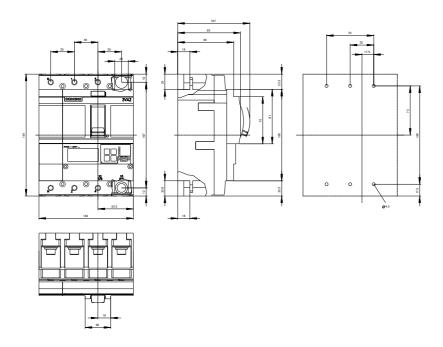
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA20256JQ420AA0

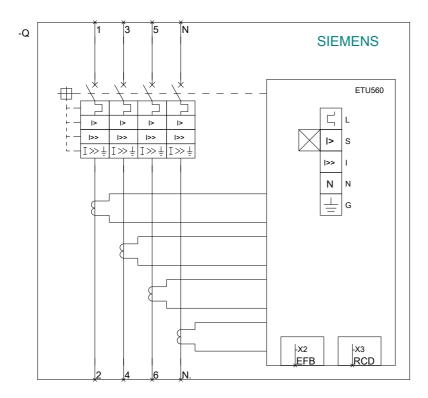
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv





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