# **SIEMENS**

## Data sheet

## 3VA2125-6HL42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4POLE, LINE PROTECTION ETU320, LI, IN=25A OVERLOAD PROTECTION IR=10A ...25A SHORT CIRCUIT PROTECTION II=12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) BUSBAR CONNECTION

product brand name  Product designation  Molded case circuit breaker  Line protection  Product variations  Selective Applications  Ground fault monitoring version  Without  Design of the auxiliary release  without auxiliaryrelease	
Design of the product       Line protection         Product variations       Selective Applications         Ground fault monitoring version       Without	
Product variations Selective Applications  Ground fault monitoring version Without	
Ground fault monitoring version Without	
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 ETU320	
General technical data	

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	17
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		Ц
Switching capacity		
Switching capacity class of the circuit breaker		Н
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		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	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		
● of I-trip / Full-scale value	Α	12
Adjustable response value current / of the current- dependent overload release / initial value	Α	0.4
Product details		
Product component		
Trip indicator		No
• display		No
undervoltage release		No
Product property		

		No
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and</li> </ul>		No
overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
other measurement function		No
Accessories  Manufacturer orticle number / of the supplied basis		2)/42425 6HI 42 04 40
Manufacturer article number / of the supplied basic switch		3VA2125-6HL42-0AA0
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
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	2.5
Maximum short-circuit current breaking capacity (Icu)	-	2.0
• 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	2.5
Short-circuit current making capacity (Icm)	-	2.0
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	3.75
		6.10
Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
• for flat-bar terminal connection / minimum		13 x 1 mm
• for flat-bar terminal connection / maximum		25 x 8.5
Type of electrical connection / for main current circuit		Lug terminal

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

Environment	tal con	difions
	iai oon	aitions

Environmental conditions		
Ambient temperature		
<ul><li>during operation / minimum</li></ul>	°C	-25
<ul> <li>during operation / maximum</li> </ul>	°C	70
during storage / minimum	°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











Shipping	other
Approval	



other

GL

### Further information

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

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

Industry Mall (Online ordering system)

 $\underline{\text{https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21256HL420AA0}}$ 

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

http://support.automation.siemens.com/WW/view/en/3VA21256HL420AA0/all

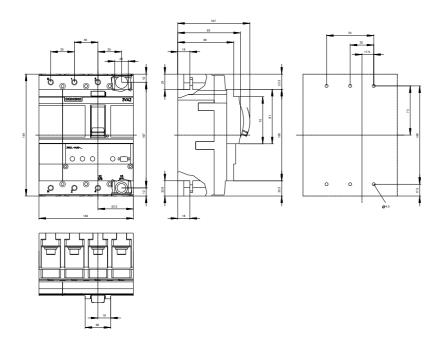
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21256HL420AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21256HL420AA0</a>

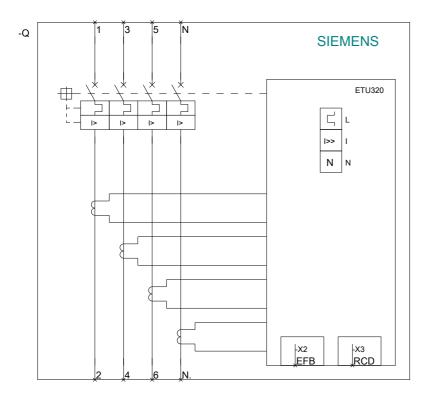
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv





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