# **SIEMENS**

### Data sheet

## 3VA2040-7HN32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN 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		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		ETU350
General technical data		
Number of poles		3
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		

Decker (free shares ID	_	10.40
Protection class IP	_	IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release		LSI
Switching capacity		
Switching capacity class of the circuit breaker		C
Dissipation		
Active power loss		
● maximum	W	2.2
Electricity		
Continuous current / Rated value / maximum	А	100
Continuous current / Rated value	А	40
Adjustable response value current / of the	A	12
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	40
● at 50 °C / Rated value	А	40
● at 60 °C / Rated value	А	40
● at 65 °C / Rated value	А	40
● at 70 °C / Rated value	А	40
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		
<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	1.5
<ul> <li>of the short-time delayed short-circuit release / Full-scale value</li> </ul>	A	10
Adjustable delay time		
• of S-trip / with I2t characteristic / initial value	S	0.02
<ul> <li>of S-trip / with I2t characteristic / Full-scale value</li> </ul>	S	0.4
Adjustable response value current / of the current- dependent overload release / initial value	A	0.4

Product details		
Product component		
Trip indicator		No
● display		No
<ul> <li>undervoltage release</li> </ul>		No
Product property		
<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>		No
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic switch		<u>3VA2040-7HN32-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	150
● at 415 V / Rated value	kA	110
<ul> <li>at 440 V / Rated value</li> </ul>	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
● at 500 V / Rated value	kA	187
• at 690 V / Rated value	kA	3
Connections		

Acchanical Design       Height     mm     181       Width     mm     105       Depth     mm     107       Mounting type     fixed mounting       Environmental conditions     C     -25       Ambient temperature     -25       • during operation / minimum     °C     -25       • during operation / maximum     °C     -25       • during storage / minimum     °C     -40       • during storage / maximum     °C     80       Certificates     Equipment marking     Q	25 x 8.5         Lug terminal         mm       181         mm       105         mm       107         fixed mounting         °C       -25         °C       70         °C       70         °C       40         °C       80         EMC         Q       Q         Q       Declaration of Conformity         Shipping Approval	25 x 8.5 Lug terminal 181 105 107		
• for flat-bar terminal connection / maximum     25 x 8.5       Type of electrical connection / for main current circuit     Lug terminal       Aechanical Design     mm     181       Width     mm     105       Depth     mm     107       Mounting type     fixed mounting       environmental conditions     fixed mounting       Amblent temperature     °C     -25       • during operation / minimum     °C     70       • during storage / minimum     °C     40       • during storage / maximum     °C     80	25 x 8.5       Lug terminal         mm       181         mm       105         mm       107         fixed mounting         °C       -25         °C       70         °C       -40         °C       80         Peclaration of Conformity         Q       Q         Q       Conformity         Approval	25 x 8.5 Lug terminal 181 105 107	1	
Type of electrical connection / for main current circuit     Lug terminal       Aechanical Design     mm     181       Width     mm     105       Depth     mm     107       Mounting type     fixed mounting       Environmental conditions     C     -25       Ambient temperature     °C     -25       • during operation / minimum     °C     70       • during storage / minimum     °C     -40       • during storage / maximum     °C     80       Certificates     Equipment marking     • acc. to DIN EN 61346-2     Q	Imm       181         mm       105         mm       107         fixed mounting         °C       -25         °C       70         °C       70         °C       40         °C       80	Lug terminal 181 105 107		
Acchanical Design       Height     mm     181       Width     mm     105       Depth     mm     107       Mounting type     fixed mounting       Environmental conditions     C     -25       Ambient temperature     -25       • during operation / minimum     °C     -25       • during operation / maximum     °C     -25       • during storage / minimum     °C     -40       • during storage / maximum     °C     80       Certificates     Equipment marking     Q	mm       181         mm       105         mm       107         fixed mounting         °C       -25         °C       70         °C       -40         °C       -40         °C       80	181 105 107	l 	
Height       mm       181         Width       mm       105         Depth       mm       107         Mounting type       fixed mounting         Environmental conditions       fixed mounting         Ambient temperature       °C       -25         • during operation / minimum       °C       70         • during storage / minimum       °C       -40         • during storage / minimum       °C       80         Certificates       Equipment marking       Q	mm       105         mm       107         fixed mounting       fixed mounting         °C       -25         °C       70         °C       -40         °C       80         Q	105 107		
Widthmm105Depthmm107Mounting typefixed mountingEnvironmental conditionsfixed mountingEnvironmental conditions°C-25Ambient temperature • during operation / minimum°C70• during operation / maximum°C70• during storage / minimum°C80• curtificatesEquipment marking • acc. to DIN EN 61346-2Q	mm       105         mm       107         fixed mounting       fixed mounting         °C       -25         °C       70         °C       70         °C       -40         °C       80	105 107		
Depthmm107Mounting typefixed mountingEnvironmental conditionsAmbient temperature• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / minimum°C• during storage / maximum°C• during stora	mm 107 fixed mounting °C -25 °C 70 °C -40 °C 80 Q Q Q EMC Declaration of Conformity Shipping Approval €ther € € €	107		
Mounting typefixed mountingEnvironmental conditionsAmbient temperature• during operation / minimum°C• during operation / maximum°C• during storage / minimum°C• during storage / maximum°C• during storage / maxi	fixed mounting          °C       -25         °C       70         °C       -40         °C       80			
Environmental conditions         Ambient temperature       °C       -25         • during operation / minimum       °C       70         • during operation / maximum       °C       70         • during storage / minimum       °C       -40         • during storage / maximum       °C       80	°C -25 °C 70 °C -40 °C 80 °C 80 Q Q Q EMC Declaration of Shipping Approval Conformity Approval	fixed mount		
Ambient temperature       °C       -25         • during operation / minimum       °C       70         • during operation / maximum       °C       70         • during storage / minimum       °C       -40         • during storage / maximum       °C       80         Certificates       Equipment marking       Q	°C 70 °C -40 °C 80	lixed mountil	ng	
• during operation / minimum°C-25• during operation / maximum°C70• during storage / minimum°C-40• during storage / maximum°C80• certificates	°C 70 °C -40 °C 80			
<ul> <li>during operation / maximum</li> <li>during operation / maximum</li> <li>°C</li> <li>70</li> <li>°C</li> <li>-40</li> <li>°C</li> <li>80</li> </ul> Certificates Equipment marking <ul> <li>acc. to DIN EN 61346-2</li> <li>Q</li> </ul>	°C 70 °C -40 °C 80			
<ul> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>°C</li> <li>-40</li> <li>°C</li> <li>80</li> </ul> Certificates Equipment marking <ul> <li>acc. to DIN EN 61346-2</li> <li>Q</li> </ul>	°C -40 °C 80 Q Q Q EMC Declaration of Shipping Approval Other € € € €	-25		
• during storage / maximum     • during storage / maximum     • C     80 Certificates Equipment marking     • acc. to DIN EN 61346-2     Q	°C 80 Q Q Q C O C O C O C O C O C O C O C O C	70		
Certificates Equipment marking • acc. to DIN EN 61346-2 Q	Q Q Q EMC Declaration of Conformity Approval other C C C C	-40		
Equipment marking     Q       • acc. to DIN EN 61346-2     Q	Q     EMC     Declaration of Conformity     Shipping Approval       other     Conformity     Approval	80		
• acc. to DIN EN 61346-2 Q	Q     Declaration of Conformity     Shipping Approval       other     Conformity     Approval			
	Q     Declaration of Conformity     Shipping Approval       other     Conformity     Approval			
	EMC Declaration of Conformity Approval	Q		
• acc. to DIN EN 81346-2 Q	Conformity     Approval       other     Cefee       Other     Image: Cefee	Q		
General Product Approval EMC Declaration of Shipping	other CE	MC	Declaration of	Shipping
Conformity Approva			Conformity	Approval
$(\mathfrak{m})$ $\mathcal{M}_{\mathrm{E}}$ $[\mathrm{H}]$ $(\mathfrak{m})$ $(\mathfrak{m})$	EG-KONT. DNV	other	EG-Konf.	
Shipping 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/3VA20407HN320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20407HN320AA0/all

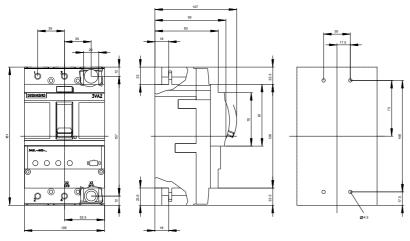
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA20407HN320AA0

#### CAx-Online-Generator

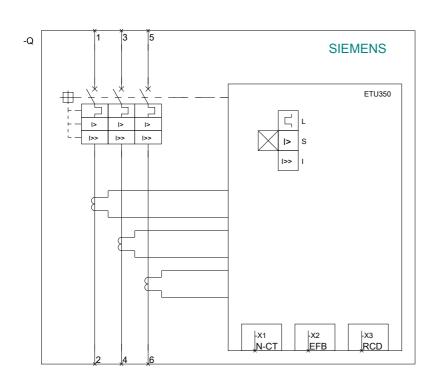
http://www.siemens.com/cax

#### **Tender specifications**

http://ausschreibungstexte.siemens.com/tiplv







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