# SIEMENS

## **Product data sheet**

### 3VA2040-5HM32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU330, LIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION II=1,5...12 X IN GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS BUSBAR CONNECTION

Similar to image

General technical data:		
product brand name		SENTRON
Product designation		Molded Case Circuit Breakers
Acceptability for application		system protection
Design of the product		Line Protection
Product function		
communication function		No
other measurement function		No
Product component / display		No
Design of the overcurrent release		ETU330
Protective function of the overcurrent release		LIG
Product property / for zero conductors / up/downgradable / short-circuit and overload protection		No
Continuous current / rated value	А	40
Operating voltage		
• at 50/60 Hz / for AC / rated value	V	690
Insulation voltage / rated value	V	800
Number of poles		3
Active power loss / maximum	W	13.5

Protection lass IP / on the front     IP40       Motor rating data:     No       Product function / phase disturbance recognition     No       Schaltvermögen:     KA       Breaking capacity limit short-circuit current (icu)     KA       • at 240 V/ rated value     KA       • at 415 V/ rated value     KA       • at 405 V/ rated value     KA       • at 240 V/ rated value     KA       • at 680 V/ rated value     KA       • of the current-dependent covertoat release     A       • of the current-dependent covertoat release     A       • of the current-dependent covertoat release / initial value     A       • of the current-depender covertoat     A       • of the current-depender covertoat     A       • of the current cincuit     Uig T	Switching capacity class of the circuit breaker	_	М
Motor rating data:         No           Product function / phase disturbance recognition         No           Schaltvermögen:         Schaltvermögen:           Breaking capacity limit short-tircult current (cu)         KA           • at 240 // rated value         KA           • at 680 V / rated value         KA           • at 640 V / rated value         KA           • of the current-dependent overload release         A           • of the enore			
Product function / phase disturbance recognition     No       Schaltvermögen:       Breaking capacity limit short-circuit current ((cu)     kA     85       • at 240 V / rated value     kA     55       • at 415 V / rated value     kA     55       • at 450 V / rated value     kA     85       • at 415 V / rated value     kA     85       • at 415 V / rated value     kA     85       • at 415 V / rated value     kA     85       • at 415 V / rated value     kA     85       • at 400 V / rated value     kA     85       • at 400 V / rated value     kA     187       • at 400 V / rated value     kA     187       • at 400 V / rated value     kA     121       • at 400 V / rated value     kA     3       • at 400 V / rated value     kA     187       • at 400 V / rated value     kA     121       • at 400 V / rated value     kA     121       • at 400 V / rated value     kA     3       • of the current-dependent overfoad release     A     0.4 1       • of the non-delayed short-circuit release / initial value     A     1.5       • with standard characteristic     s     0.1 0.3       • with standard characteristic     s     0.1 0.3 <t< th=""><th></th><th>_</th><th></th></t<>		_	
Schaltvermögen:         Breaking capacity limit short-circuit current (icu)       KA         • at 240 V / rated value       KA         • at 890 V / rated value       KA         • at 240 V / rated value       KA         • at 415 V rated value       KA         • at 415 V rated value       KA         • at 415 V rated value       KA         • at 690 V / rated value       A         • of the current-dependent overload release       A         • of the current-dependen	Motor rating data:	_	
Breaking capacity limit short-circuit current (icu)     kA     85       • at 240 V / rated value     kA     55       • at 600 V/ rated value     kA     2       Breaking capacity operating short-circuit current (ics)     -     -       • at 240 V / rated value     kA     85       • at 240 V / rated value     kA     55       • at 240 V / rated value     kA     55       • at 240 V / rated value     kA     55       • at 415 V / rated value     kA     55       • at 450 V / rated value     kA     187       • at 240 V / rated value     kA     187       • at 415 V / rated value     kA     187       • at 415 V / rated value     kA     187       • at 415 V / rated value     kA     187       • at 450 V / rated value     kA     187       • at 450 V / rated value     kA     121       • at 450 V / rated value     A     1.5       Stable current dependent overload release     A     0.4 1       • of the current dependent overload release     A     0.4 1       • of the current dependent overload release     S     0.4 1       • with standard characteristic     S     0.1 0.3       Connections:	Product function / phase disturbance recognition		No
• at 240 V / rated valueKA85• at 415 V / rated valueKA55• at 680 V / rated valueKA2Breaking capacity operating short-circuit current (ics)KA85• at 415 V / rated valueKA85• at 415 V / rated valueKA55• at 400 V / rated valueKA55• at 400 V / rated valueKA167• at 240 V / rated valueKA187• at 240 V / rated valueKA187• at 240 V / rated valueKA3Overcurrent Release:KA121• at 600 V / rated valueKA3Overcurrent Release:A0.4 1• of the current-dependent overload releaseA0.4 1• of the current response value / of I-trip / end valueA1.5Settable current response value / of I-trip / end valueA1.2• with standard characteristicA0.4 1• with standard characteristicB0.1 0.3Connections:Image: Settable or connectionImage: Settable or connection• for main current circuitImage: Settable or connectionImage: Settable or connection• for nain current circuitImage: Settable or connectionImage: Settable or connection• for main current circuitImage: Settable or connectionImage: Settable or connection• for nain current circuitImage: Settable or connectionImage: Settable or connection• for nain current circuitImage: Settable or connectionImage: Setta	Schaltvermögen:		
• at 15 V / rated valueKA55• at 690 V / rated valueKA2Breaking capacity operating short-circuit current (Ics)KA65• at 240 V / rated valueKA55• at 415 V / rated valueKA55• at 680 V / rated valueKA121• at 240 V / rated valueKA187• at 240 V / rated valueKA121• at 240 V / rated valueKA121• at 240 V / rated valueKA121• at 690 V / rated valueKA121• at 690 V / rated valueKA15• at 690 V / rated valueKA15• at 690 V / rated valueA1.5• at 690 V / rated valueA1.5• at 690 V / rated valueA1.5• of the current-dependent overload releaseA0.4 1• of the non-delayed short-circuit release / initial valueA1.5• of the non-delayed short-circuit release / initial valueA1.5• with standard characteristicA0.4 1• with standard characteristicA0.4 1• with standard characteristicA0.4 0.3• control circuitLug TerminalInfo• for main current circuitInfoInfo• for auxiliary contactsInfoInfo• for auxiliary contactsInfoInfo• or auxiliary contactsInfoInfo• for auxiliary contactsInfoInfo• underivoltage release with leading contact </td <td>Breaking capacity limit short-circuit current (lcu)</td> <td></td> <td></td>	Breaking capacity limit short-circuit current (lcu)		
• at 690 V / rated valueKA2Breaking capacity operating short-circuit current (Ics)KA85• at 240 V / rated valueKA85• at 450 V / rated valueKA2Utimate short-circuit current making capacity (Icm)KA187• at 450 V / rated valueKA121• at 450 V / rated valueKA3• at 450 V / rated valueKA121• at 450 V / rated valueKA3• at 650 V / rated valueKA121• at 650 V / rated valueKA121• at 650 V / rated valueKA3Overcurrent Release:A0.4 1• of the current-dependent overload releaseA0.4 1• of the non-delayed short-circuit release / initial valueA122• with standard characteristicA0.4 1• with standard characteristicA0.4 1• with standard characteristicS0.1 0.3Connections:Lug TerminalIPesign of the electrical connectionII• for main current circuitII• for axiliary contacts0I• for axiliary contacts0I• for ductoring release mechanismNo• undervoltage release with leading contactNo• undervoltage release with leading contactNo• trip indicatorNoNo	• at 240 V / rated value	kA	85
Breaking capacity operating short-circuit current (Ics)       KA       85         • at 240 V / rated value       KA       85         • at 450 V / rated value       KA       2         • at 690 V / rated value       KA       187         • at 240 V / rated value       KA       187         • at 240 V / rated value       KA       187         • at 415 V / rated value       KA       121         • at 690 V / rated value       KA       3         Overcurrent Release:       A       0.4 1         • of the current-dependent overload release       A       0.4 1         • of the non-delayed short-circuit release / initial value       A       1.5         • of the non-delayed short-circuit release / initial value       A       0.4 1         • of the non-delayed short-circuit release / initial value       A       0.4 1         • of the non-delayed short-circuit release / initial value       A       0.4 1         • with standard characteristic       a       0.4 1         • with standard characteristic       s       0.1 0.3         Control circuit:       ug Terminal       Lug Terminal         Control circuit:       ug Terminal       0         Nor       No       No	• at 415 V / rated value	kA	55
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kat 415 V/ rated valueka55kat 690 V/ rated valueka2Utimate short-circuit current making capacity (lom)ka187• at 240 V/ rated valueka121• at 415 V/ rated valueka3• at 415 V/ rated valueka3• at 690 V/ rated valueka3• at 690 V/ rated valueka3• at 690 V/ rated valueA0.4 1• of the current-dependent overload releaseA0.4 1• of the non-delayed short-circuit release / initial valueA12• with standard characteristicA0.4 1• with standard characteristicS0.1 0.3• with standard characteristicS0.1 0.3• to main current circuitLug Terminal• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contactsNo• voltage release with leading contactNo• voltage riggerNo• undervoltage release with leading contactNo• trip indicatorNo	Breaking capacity operating short-circuit current (Ics)		
kA2Utimate short-circuit current making capacity (tem)	• at 240 V / rated value	kA	85
Utimate short-circuit current making capacity (Icm)       kA       187         • at 240 V / rated value       kA       187         • at 415 V / rated value       kA       121         • at 680 V / rated value       kA       3         Overcurrent Release:       KA       3         Adjustable response current       A       0.41         • of the current-dependent overload release       A       0.41         • of the non-delayed short-circuit release / initial value       A       1.5         Settable current response value / of I-trip / end value       A       0.41         • with standard characteristic       A       0.41         • with standard characteristic       S       0.1 0.3         Connections:       Lug Terminal       Lug Terminal         Control circuit:       Lug Terminal       Intervoltage release mechanism         • for auxiliary contacts       0       0         Product component       Image: Ima	• at 415 V / rated value	kA	55
at 240 V/ rated valueKA187• at 415 V/ rated valueKA121• at 680 V/ rated valueKA3Overcurrent Release:Adjustable response currentA0.4 1• of the current-dependent overload releaseA0.4 1• of the non-delayed short-circuit release / initial valueA1.5Settable current response value / of I-trip / end valueA12• with standard characteristicA0.4 1• with standard characteristicS0.1 0.3Connections:Lug TerminalDesign of the electrical connectionLug Terminal• for main current circuitLug TerminalControl circuit:NoNumber of changeover contacts0• for auxiliary contacts0• for duarge release mechanismNo• Voltage release mechanismNo• Voltage release with leading contactNo• trip indicatorNo• trip indicatorNo	• at 690 V / rated value	kA	2
at 415 V / rated valueKA121at 690 V / rated valueKA3Overcurrent valueAdjustable response current• of the current-dependent overload releaseA0.4 1• of the non-delayed short-circuit release / initial valueA1.5Settable current response value / of I-trip / end valueA12• with standard characteristicA0.4 1• with standard characteristicS0.1 0.3Connections:Design of the electrical connectionLug Terminal• for main current circuitUNumber of changeover contacts• for auxiliary contactsNo• for auxiliary contactsNo• undervoltage release mechanismNo• Voltage riggerNo• undervoltage release with leading contactNo• trip indicatorNoMunfacturer article numberNo	Ultimate short-circuit current making capacity (Icm)		
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Overcurrent Release:       Adjustable response current     A       • of the current-dependent overload release     A       • of the non-delayed short-circuit release / initial value     A       • of the non-delayed short-circuit release / initial value     A       • with standard characteristic     A       • with standard characteristic     A       • with standard characteristic     S       • with standard characteristic     S       • with standard characteristic     S       • for main current circuit     Lug Terminal         Connections:       Design of the electrical connection     Lug Terminal       • for main current circuit     Control circuit:       Number of changeover contacts     0       • for auxiliary contacts     0       • for auxiliary contacts     No       • undervoltage release mechanism     No       • Voltage trigger     No       • undervoltage release with leading contact     No       • trip indicator     No       Manufacturer article number     No	• at 415 V / rated value	kA	121
Adjustable response current       A       0.4 1         • of the current-dependent overload release       A       0.4 1         • of the non-delayed short-circuit release / initial value       A       1.5         Settable current response value / of I-trip / end value       A       0.4 1         • with standard characteristic       A       0.4 1         • with standard characteristic       A       0.4 1         • with standard characteristic       S       0.1 0.3         Connections:       Lug Terminal       Lug Terminal         Control circuit:       Lug Terminal       No         Number of changeover contacts       0       0         • for auxiliary contacts       0       0         Product component       No       No         • undervoltage release mechanism       No       No         • Undervoltage release with leading contact       No       No         • trip indicator       No       No       No	• at 690 V / rated value	kA	3
• of the current-dependent overload releaseA0.4 1• of the non-delayed short-circuit release / initial valueA1.5Settable current response value / of I-trip / end valueA12• with standard characteristicA0.4 1• with standard characteristicS0.1 0.3• with standard characteristicII• with standard characteristicII• or main current circuitII• for main current circuitII• for main current circuitIIVoltage rollage ver contacts • for auxiliary contacts0• for auxiliary contacts0• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNo• trip indicatorNo• trip indicatorNo	Overcurrent Release:		
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• with standard characteristicA0.4 1• with standard characteristics0.1 0.3Connections:Design of the electrical connection• for main current circuitLug TerminalControl circuit:Number of changeover contacts0• for auxiliary contacts0• for auxiliary contacts0• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNo• trip indicatorNo• trip indicatorNo	• of the non-delayed short-circuit release / initial value	А	1.5
• with standard characteristics0.1 0.3Connections:Design of the electrical connection • for main current circuitLug TerminalControl circuit:Lug TerminalNumber of changeover contacts • for auxiliary contacts0Product component • Undervoltage release mechanism • Voltage trigger • undervoltage release with leading contact • trip indicatorNoManufacturer article numberIIManufacturer article numberIIStandard characteristicNoStandard ch	Settable current response value / of I-trip / end value	А	12
Connections:       Lug Terminal         Design of the electrical connection       Lug Terminal         • for main current circuit       Lug Terminal         Control circuit:       Vumber of changeover contacts         • for auxiliary contacts       0         • undervoltage release mechanism       No         • Voltage trigger       No         • undervoltage release with leading contact       No         • trip indicator       No         Manufacturer article number       Image: Contact	with standard characteristic	А	0.4 1
Design of the electrical connectionLug Terminal• for main current circuitLug TerminalControl circuit:Number of changeover contacts0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts0• for auxiliary contacts0• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNo• trip indicatorNo• Manufacturer article numberImage: Contact in the second secon	• with standard characteristic	s	0.1 0.3
• for main current circuitLug TerminalControl circuit:Number of changeover contactsImage: Second Content of Changeover contacts• for auxiliary contacts0• for auxiliary contacts0Product component0• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNoManufacturer article numberImage: Second Content of	Connections:		
Control circuit:       Image: Control circuit:         Number of changeover contacts       0         • for auxiliary contacts       0         • for auxiliary contacts       0         • for auxiliary contacts       0         • undervoltage release mechanism       No         • Voltage trigger       No         • undervoltage release with leading contact       No         • trip indicator       No         Manufacturer article number       Image: Contact contact	Design of the electrical connection		
Number of changeover contactsImage: style	• for main current circuit		Lug Terminal
• for auxiliary contacts0Product component0• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNoManufacturer article numberImage: Section of the s	Control circuit:		
Product componentImage: Component• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNoManufacturer article numberImage: Component of the second	Number of changeover contacts		
• undervoltage release mechanismNo• Voltage triggerNo• undervoltage release with leading contactNo• trip indicatorNoManufacturer article numberImage: Contact Con	<ul> <li>for auxiliary contacts</li> </ul>		0
• Voltage trigger     No       • undervoltage release with leading contact     No       • trip indicator     No       Manufacturer article number     Image: Contact Co	Product component		
• undervoltage release with leading contact     No       • trip indicator     No       Manufacturer article number     Image: Contact of the second seco	undervoltage release mechanism		No
• trip indicator No No	Voltage trigger		No
Manufacturer article number	<ul> <li>undervoltage release with leading contact</li> </ul>		No
	• trip indicator		No
2. of the integrated equilibre quiteb (dame quiteb	Manufacturer article number		
• 3 or the integrated auxiliary switch /alarm switch	3 of the integrated auxiliary switch /alarm switch		

<ul> <li>of integrated auxiliary trip</li> </ul>
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• of integrated auxiliary trip				
Ambient conditions:				
Ambient temperature				
during operating	°C	-25 +70		
during storage	°C	-40 +80		
Dimensions and weights:				
Width	mm	105		
Height	mm	181		
Depth	mm	107		
Net weight	g	2,280		
Lebensdauer:				
Mechanical operating cycles as operating time / typical		20,000		
		20,000		

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Reference code / according to DIN EN 61346-2

Certificates/approvals:

**Declaration of Conformity** 

#### Further information:

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

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

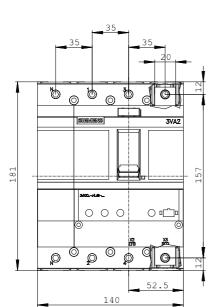
#### Industry Mall (Online ordering system)

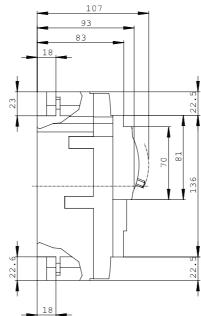
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2040-5HM32-0AA0

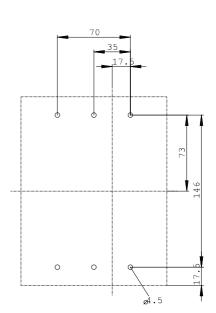
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA2040-5HM32-0AA0/all

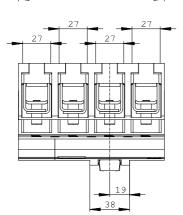
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA2040-5HM32-0AA0

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









last change:

May 14, 2014