# **SIEMENS**

### Data sheet

# 3VA2063-7HM42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=63A OVERLOAD PROTECTION IR=25A ...63A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS 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		ETU330
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
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.1
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.3
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		20 000

Voltage		
Insulation voltage / Rated value	V	800
Desta diana da sa	_	
Protection class Protection class IP	_	IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release		LIG
Protective function of the overcurrent release		LIG
Switching capacity		
Switching capacity class of the circuit breaker		C
Dissipation		
Active power loss		
• maximum	W	5.4
Electricity		
Continuous current / Rated value / maximum	A	100
Continuous current / Rated value	A	63
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value		
Main size it	_	
Main circuit Operating voltage	_	
with AC / at 50/60 Hz / Rated value	V	690
Operating current	-	
• at 40 °C / Rated value	А	63
• at 50 °C / Rated value	A	63
	A	63
• at 60 °C / Rated value		
• at 65 °C / Rated value	A	63
• at 70 °C / Rated value	A	63
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>for G-tripping / with standard characteristic / initial value</li> </ul>	A	0.25
<ul> <li>for G-tripping / with standard characteristic / Full-scale value</li> </ul>	А	1
<ul> <li>of I-trip / Full-scale value</li> </ul>	А	12
Adjustable response value current / of the current- dependent overload release / initial value	А	0.397
The structure of the state of t		

Product component     No       • display     No       • undervoltage release     No       Product property     • of the circuit breaker with tripping unit / Tripping characteristic adjustable     Yes       • for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proof     No       Product expansion / optional / motor drive     Yes       Product function     Yes       Product function     Yes       • origination function function     No       • other measurement function     No       • other measurement function     No       • other measurement function     No       • at 240 V / Rated value     KA       • at 240 V / Rate	Product details		
display display undervoltage releaseNoProduct property of the circuit breaker with tripping unit / Tripping othracteristic adjustable of retural conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct expansion / optional / motor driveYesProduct function overload proofYesProduct function our infinisic device protection o ommunication functionYesProduct function o ther measurement functionNoProtect function o ther measurement functionNoProtect function o ther measurement functionStructorsProtect function o ther measurement functionStructors	Product component		
undervoltage releaseNoProduct property• of the circuit breaker with tripping unit / Tripping characteristic adjustableYes• of the circuit breaker with tripping unit / Tripping characteristic adjustableNo• or relutal conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct spansion / optional / motor driveYesProduct functionYes• intrinsic device protectionYes• orther measurement functionNo• other measurement functionNo• other measurement functionNo• other measurement functionNoShort circuitYA2063-/fitM42-0AA0Short circuitKACorcuitIntrinsic device protection• at 415 V / Rated valueKA• at 415 V / Rated valueKA• at 415 V / Rated valueKA• at 6300 V / Rated valueKA• at 415 V / Rated value<	Trip indicator		No
Product progrey • of the circuit breaker with tripping unit / Tripping characteristic adjustable • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct expansion / optional / motor driveYesProduct functionNo         • Intrinsic device protection • other measurement functionNo         • Other measurement functionNo         • Other measurement functionSVA2063-7HM42-DAA0         • other measurement functionNo         • Coperational short-circuit current breaking capacity (cs)SVA2063-7HM42-DAA0         • at 240 V / Rated valueKA150         • at 415 V / Rated valueKA110         • at 420 V / Rated valueKA150         • at 690 V / Rated valueKA150         • at 420 V / Rated valueKA150         • at 420 V / Rated valueKA150         • at 420 V / Rated valueKA150         • at 690 V / Rated valueKA150         • at 420 V / Rated valueKA150         • at 420 V / Rated valueKA150         • at 420 V / Rated valueKA2Maximum short-circuit current breaking capacity (tor) • at 420 V / Rated valueKA2330 <tr <td="">         •</tr>	• display		No
• of the circuit breaker with tripping unit / Tripping characteristic adjustableYes• for neutral conductors / upgradeable/introfittable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Order functionNo• Order function functionNo• Other measurement functionNo• other measurement functionState State St	undervoltage release		No
characteristic adjustable       initial conductors / upgradeable/retrofitable / Short-circuit and overlead proof       No         Product function       Yes         Product function       Yes         Product function       No         • Intrinsic device protection       Yes         • Communication function       No         • Other measurement function       No         • other measurement function       No         • other measurement function       State of the supplied basic switch         Short circuit       State of the supplied basic switch         • at 240 V / Rated value       KA         • at 240 V / Rated value       KA         • at 240 V / Rated value       KA         • at 600 V / Rated va	Product property	-	
upgradeable/retrofitable / Short-circuit and          vverlaad proof       Yes         Product expansion / optional / motor drive       Yes         Product function          • Intrinsic device protection       No         • Communication function       No         • Other measurement function       No         • other circuit current breaking capacity (icu)       Intervention         • at 240 V / Rated value       KA<			Yes
Product function       Product function <ul> <li>Intrinsic device protection</li> <li>communication function</li> <li>No</li> </ul> Phase failure detection <ul> <li>other measurement function</li> </ul> No                Accessories               Site of the supplied basic switch               Site of the supplied basic switch                 Short circuit               Site of the supplied basic switch               Site of the supplied basic switch                 Short circuit               Site of the supplied basic switch               Site of the supplied basic switch                 Short circuit               Site of the supplied basic switch               Site of the supplied basic switch                 Short circuit               Site of the supplied basic switch               Site of the supplied basic switch                  statue V / Rated value               KA               Site of the supplied basic switch                  stat 500 V / Rated value               KA               Site of the supplied basic system                 st at 500 V / Rated value </td <td>upgradeable/retrofittable / Short-circuit and</td> <td></td> <td>No</td>	upgradeable/retrofittable / Short-circuit and		No
Product function       Intrinsic device protection       Yes         • communication function       No         • Phase failure detection       No         • other measurement function       No         • other measurement function       No         Accessories       3VA2063-7HM42-0AA0         Manufacturer article number / of the supplied basic switch       3VA2063-7HM42-0AA0         Short circuit       Correction         Operational short-circuit current breaking capacity (Ics)       Image: Correction of the state	Product expansion / optional / motor drive		Yes
Product function       Intrinsic device protection       Yes         • communication function       No         • Phase failure detection       No         • other measurement function       No         • other measurement function       No         Accessories       3VA2063-7HM42-0AA0         Manufacturer article number / of the supplied basic switch       3VA2063-7HM42-0AA0         Short circuit       Correction         Operational short-circuit current breaking capacity (Ics)       Image: Correction of the state	Product function		
Phase failure detectionNo• other measurement functionNoAccessoriesManufacturer article number / of the supplied basic switchSVA2063-7HIM42-0AA0Operational short-circuit current breaking capacity (tcs)Strutter article number / of the supplied basic• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA2• at 690 V / Rated valueKA150• at 690 V / Rated valueKA150• at 690 V / Rated valueKA150• at 440 V / Rated valueKA2• at 690 V / Rated valueKA150• at 690 V / Rated valueKA150• at 690 V / Rated valueKA150• at 440 V / Rated valueKA110• at 450 V / Rated valueKA2• at 690 V / Rated valueKA330• at 690 V / Rated valueKA330• at 640 V / Rated valueKA330• at 640 V / Rated valueKA242• at 440 V / Rated valueKA242• at 440 V / Rated valueKA242• at 440 V / Rated valueKA330• at 440 V / Rated valueKA242• at 440 V / Rated value<	<ul> <li>Intrinsic device protection</li> </ul>		Yes
• other measurement functionNoAncessoriesSVA2063-7HM42-0AA0Manufacturer article number / of the supplied basic switchSVA2063-7HM42-0AA0Operational short-circuit current breaking capacity (tcs)SVA2063-7HM42-0AA0• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 690 V / Rated valueKA85• at 690 V / Rated valueKA150• at 240 V / Rated valueKA85• at 690 V / Rated valueKA2Maximum short-circuit current breaking capacity (Icu)•• at 240 V / Rated valueKA150• at 440 V / Rated valueKA150• at 440 V / Rated valueKA110• at 440 V / Rated valueKA2• at 240 V / Rated valueKA330• at 240 V / Rated valueKA242• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated v	<ul> <li>communication function</li> </ul>		No
Accessories       3VA2063-7HM42-0AA0         Manufacturer article number / of the supplied basic switch       3VA2063-7HM42-0AA0         Short circuit       Short circuit current breaking capacity (ics)       at 240 V / Rated value       kA       150         • at 240 V / Rated value       kA       150       at 415 V / Rated value       kA       110         • at 440 V / Rated value       kA       110       at 440 V / Rated value       kA       110         • at 440 V / Rated value       kA       110       at 440 V / Rated value       kA       150         • at 690 V / Rated value       kA       150       at 440 V / Rated value       kA       2         Maximum short-circuit current breaking capacity (Icu)	<ul> <li>Phase failure detection</li> </ul>		No
Manufacturer article number / of the supplied basic       3VA2063-7HM42:0AA0         switch       Short circuit         Operational short-circuit current breaking capacity (ics)       4         • at 240 V / Rated value       kA         • at 415 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 400 V / Rated value       kA         • at 690 V / Rated value       kA         • at 690 V / Rated value       kA         • at 240 V / Rated value       kA         • at 690 V / Rated value       kA         • at 690 V / Rated value       kA         • at 240 V / Rated value       kA         • at 240 V / Rated value       kA         • at 415 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 690 V / Rated value       kA         • at 690 V / Rated value       kA         • at 400 V / Rated value       kA         • at 400 V / Rated value       kA         • at 400 V / Rated value       kA         • at 440 V / Rated val	<ul> <li>other measurement function</li> </ul>		No
Manufacturer article number / of the supplied basic       3VA2063-7HM42:0AA0         switch       Short circuit         Operational short-circuit current breaking capacity (ics)       4         • at 240 V / Rated value       kA         • at 415 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 400 V / Rated value       kA         • at 690 V / Rated value       kA         • at 690 V / Rated value       kA         • at 240 V / Rated value       kA         • at 690 V / Rated value       kA         • at 690 V / Rated value       kA         • at 240 V / Rated value       kA         • at 240 V / Rated value       kA         • at 415 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 440 V / Rated value       kA         • at 690 V / Rated value       kA         • at 690 V / Rated value       kA         • at 400 V / Rated value       kA         • at 400 V / Rated value       kA         • at 400 V / Rated value       kA         • at 440 V / Rated val	Accesstics	_	
switchImage: Constraint of the switch of the sw		_	3\/A2063.7HM42.0AA0
(ics)         Image: Constraint of the state of the	Short circuit Operational short-circuit current breaking capacity	_	
• at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA85• at 690 V / Rated valueKA2Maximum short-circuit current breaking capacity (loc)-• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA85• at 690 V / Rated valueKA30• at 690 V / Rated valueKA330• at 690 V / Rated valueKA330• at 415 V / Rated valueKA3242• at 415 V / Rated valueKA330• at 415 V / Rated valueKA3242• at 440 V / Rated valueKA342• at 440 V / Rated valueKA342<			
<ul> <li>at 10 V / Rated value</li> <li>at 440 V / Rated value</li> <li>kA 110</li> <li>at 500 V / Rated value</li> <li>kA 85</li> <li>at 690 V / Rated value</li> <li>kA 2</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>kA 150</li> <li>at 415 V / Rated value</li> <li>kA 110</li> <li>at 440 V / Rated value</li> <li>kA 110</li> <li>at 500 V / Rated value</li> <li>kA 855</li> <li>at 690 V / Rated value</li> <li>kA 855</li> <li>at 690 V / Rated value</li> <li>kA 330</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> <li>kA 22</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> <li>kA 242</li> <li>at 415 V / Rated value</li> <li>kA 242</li> <li>at 440 V / Rated value</li> <li>kA 242</li> <li>at 440 V / Rated value</li> <li>kA 187</li> </ul>	• at 240 V / Rated value	kA	150
<ul> <li>at 100 V / Rated value</li> <li>at 500 V / Rated value</li> <li>kA</li> <li>85</li> <li>at 690 V / Rated value</li> <li>kA</li> <li>2</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>kA</li> <li>150</li> <li>at 415 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 440 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 500 V / Rated value</li> <li>kA</li> <li>85</li> <li>at 690 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 440 V / Rated value</li> <li>kA</li> <li>110</li> <li>at 40 V / Rated value</li> <li>kA</li> <li>85</li> <li>at 690 V / Rated value</li> <li>kA</li> <li>2</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> <li>kA</li> <li>330</li> <li>at 415 V / Rated value</li> <li>kA</li> <li>242</li> <li>at 415 V / Rated value</li> <li>kA</li> <li>242</li> <li>at 440 V / Rated value</li> <li>kA</li> <li>242</li> </ul>	● at 415 V / Rated value	kA	110
eat 500 V / Rated valuekA85• at 690 V / Rated valuekA2Maximum short-circuit current breaking capacity (Icu)• at 240 V / Rated valuekA150• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA85• at 690 V / Rated valuekA85• at 690 V / Rated valuekA2• at 690 V / Rated valuekA330• at 240 V / Rated valuekA324• at 240 V / Rated valuekA242• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA310• at 440 V / Rated valuekA342• at 440 V / Rated valuekA342• at 450 V / Rated valuekA342• at 500 V / Rated valuekA347• at 500	• at 440 V / Rated value	kA	110
Maximum short-circuit current breaking capacity (Icu)KA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)		kA	85
• at 240 V / Rated value       kA       150         • at 415 V / Rated value       kA       110         • at 440 V / Rated value       kA       110         • at 440 V / Rated value       kA       85         • at 690 V / Rated value       kA       2         Short-circuit current making capacity (Icm)	• at 690 V / Rated value	kA	2
• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)-• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 410 V / Rated valuekA242• at 440 V / Rated valuekA187	Maximum short-circuit current breaking capacity (Icu)	-	
• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)	• at 240 V / Rated value	kA	150
• 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 440 V / Rated value       kA       242         • at 500 V / Rated value       kA       187		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       310		kA	110
• at 690 V / Rated valuekA2Short-circuit current making capacity (Icm)-• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187		kA	85
• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187	• at 690 V / Rated value	kA	2
• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187			
• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187		kA	330
• at 440 V / Rated value       kA       242         • at 500 V / Rated value       kA       187			
• at 500 V / Rated value kA 187		kA	242

<ul><li>Equipment marking</li><li>acc. to DIN EN 61346-2</li><li>acc. to DIN EN 81346-2</li></ul>		Q				
Certificates	-	_				
	U	00				
<ul> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul>	°C		80			
during operation / maximum	°C °C	-40	70			
during operation / minimum	°C	-25				
Ambient temperature						
Environmental conditions	-					
Mounting type		fixed moun	fixed mounting			
Depth	mm	107				
Width	mm	140	140			
Height	mm	181				
Mechanical Design						
Type of electrical connection / for main current circuit		Lug termin	Lug terminal			
• for flat-bar terminal connection / maximum		25 x 8.5	25 x 8.5			
• for flat-bar terminal connection / minimum		13 x 1 mm	13 x 1 mm			
Type of connectable conductor cross-section	-					
current circuit		Front termi				

#### 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/3VA20637HM420AA0

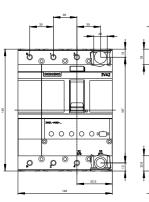
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20637HM420AA0/all

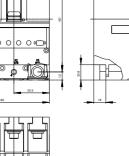
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA20637HM420AA0

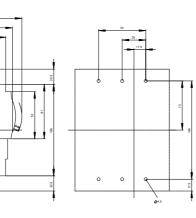
CAx-Online-Generator http://www.siemens.com/cax

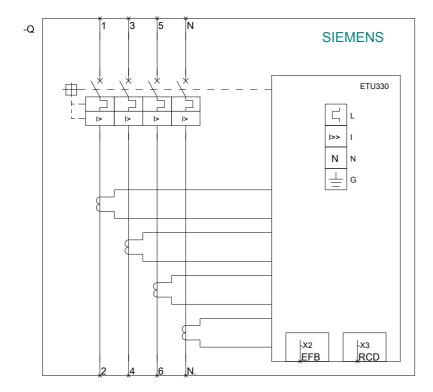
## Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









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