SIEMENS

Data sheet



3VA2063-7HM46-0AA0

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 CABLE 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		
 for G-tripping / with standard characteristic / initial value 	A	0.25
 for G-tripping / with standard characteristic / Full-scale value 	А	1
 of I-trip / Full-scale value 	А	12
Adjustable response value current / of the current- dependent overload release / initial value	А	0.397
The structure of the state of t		

Operational short-circuit current breaking capacity (Ics)KA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA85• at 500 V / Rated valueKA2Maximum short-circuit current breaking capacity (Icu)• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 240 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA310• at 440 V / Rated valueKA2Short-circuit current making capacity (Icm)• at 240 V / Rated valueKA2Short-circuit current making capacity (Icm)• at 240 V / Rated valueKA330• at 440 V / Rated valueKA330• at 440 V / Rated valueKA34• at 440 V / Rated valueKA34• at 440 V / Rated valueKA242• at 440 V / Rated valueKA242• at 440 V / Rated valueKA242• at 440 V / Rated valueKA187	Product details		
display display undervoltage releaseNoProduct properly of the circuit breaker with tripping unit / Tripping or neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct expansion / optional / motor driveYesProduct functionYesProduct functionYesProduct functionNo• Infinisic device protectionYes• Infinisic device protectionNo• Or maural conductorsNo• Or maural conductorsNo• Infinisic device protectionNo• Or maural conductorsNo• Orthore and the supplied basic switchSNO• Orthore and the supplied basicSNO• Orthore and the number / of the supplied basic switchSNOProtectualKA150• ConsultKA150• at 415 V / Rated valueKA150• at 415 V / Rated valueKA2	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• for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Orbure target and functionNo• other measurement functionNo• other measurement functionNo• other measurement functionState and	Trip indicator		No
Product proger• of the circuit breaker with tripping unit / Tripping characteristic adjustable• for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofProduct expansion / optional / motor driveProduct transition ductors / upgradeable/retrofittable / Short-circuit and overload proofProduct functionProduct function• Intrinsic device protection• Intrinsic device protection• other measurement function• other measurement function• other measurement function• other measurement functionShort circuitCoperational short-circuit current breaking capacity (ics)• at 240 V / Rated value• at 415 V / Rated value• at 690 V / Rated value• at 690 V / Rated value• at 690 V / Rated value• at 640 V / Rated value• at 415 V / Rated value• at 420 V / Rated va	• display		No
• of the circuit breaker with tripping characteristic adjustableYes• for neutral conductors / upgradeable/introfittable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Other measurement functionNo• other measurement functionNo• other measurement functionState State	 undervoltage release 		No
characteristic adjustable characteristic adjustableInterprete characteristic adjustableNoe for neutral conductors / upgradeable/retrofitable / Short-circuit and overload proofYesProduct functionYesProduct functionYese communication functionNoe communication functionNoe other measurement functionNoother measurement functionNoother measurement function3V/2003-7FIM46-0AA0what facture article number / of the supplied basic switch3V/2003-7FIM46-0AA0Short circuitShort-circuit current breaking capacity (tcs)other measurement functionAShort circuitKA150Short-circuit current breaking capacity (tcs)other databasic switchKA150Short-circuit current breaking capacity (tcs)other databasic stressKA150Short-circuit current breaking capacity (tcs)other databasic stressKA150Short-circuit current breaking capacity (tcs)other databasic (tcs)KA150Short-circuit curre	Product property		
Instruction Instruction Product expansion / optional / motor drive Yes Product function Intrinsic device protection Intrinsic device protection No Intrinsic device protection No Optional function No Product function No Intrinsic device protection No Intrinsic device protection No Optional function No Intrinsic device protection No Intrinsic device protection No Optional function No Intrinsic device protection Intrinsic device protection Intrinsic device protection KA 110			Yes
Product function Product function Intrinsic device protection communication function Phase failure detection other measurement function No Accessories 3VA2063-7HM46-0AA0 Anufacturer article number / of the supplied basic switch 3VA2063-7HM46-0AA0 Short circuit Operational short-circuit current breaking capacity (Ics) 3VA2063-7HM46-0AA0 at 240 V / Rated value kA 150 at 415 V / Rated value kA at 500 V / Rated value kA at 690 V / Rated value kA 150 at 415 V / Rated value kA 160 at 690 V / Rated value kA 170 at 690 V / Rated value kA 180 at 690 V / Rated value kA 110 at 690 V / Rated value kA 120 at 690 V / Rated value kA 120 at 240 V / Rated value kA 120 at 400 V / Rated value kA 120 at 690 V / Rated value kA 120 at 240 V / Rated value kA 120 at 240 V / Rated	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 3VA2063-7HM46-0AA0 Short circuit 3VA2063-7HM46-0AA0 Correctional short-circuit current breaking capacity (Ics) 3VA2063-7HM46-0AA0 • at 240 V / Rated value KA 150 • at 415 V / Rated value KA 110 • at 440 V / Rated value KA 110 • at 400 V / Rated value KA 2 Maximum short-circuit current breaking capacity (Icu)	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 3VA2063-7HM46-0AA0 Short circuit 3VA2063-7HM46-0AA0 Correctional short-circuit current breaking capacity (Ics) 3VA2063-7HM46-0AA0 • at 240 V / Rated value KA 150 • at 415 V / Rated value KA 110 • at 440 V / Rated value KA 110 • at 400 V / Rated value KA 2 Maximum short-circuit current breaking capacity (Icu)	Product function		
Phase failure detectionNo• Phase failure detectionNo• other measurement functionNoAccessoriesStructurer article number / of the supplied basic switchStructurer article number / of the supplied basic switchShort circuitStructurent breaking capacity (tcs)Structurent breaking capacity (tcs)• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA2• at 690 V / Rated valuekA150• at 240 V / Rated valuekA150• at 690 V / Rated valuekA2• at 240 V / Rated valuekA150• at 690 V / Rated valuekA2• at 690 V / Rated valuekA150• at 240 V / Rated valuekA150• at 415 V / Rated valuekA150• at 400 V / Rated valuekA150• at 400 V / Rated valuekA2• at 690 V / Rated valuekA2• at 690 V / Rated valuekA330• at 400 V / Rated valuekA330• at 400 V / Rated valuekA2• at 400 V / Rated valuekA330• at 400 V / Rated valuekA242• at 400 V / Rated valuekA242• at 400 V / Rated value<	 Intrinsic device protection 		Yes
• other measurement functionNoAncessoriesSVA2063-7HM46-0AA0Manufacturer article number / of the supplied basic switchSVA2063-7HM46-0AA0Short circuitSVA2063-7HM46-0AA0Operational short-circuit current breaking capacity (tcs)SVA2063-7HM46-0AA0• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 690 V / Rated valueKA150• at 415 V / Rated valueKA150• at 240 V / Rated valueKA150• at 415 V / Rated valueKA2• at 440 V / Rated valueKA2• at 450 V / Rated valueKA2• at 240 V / Rated valueKA330• at 240 V / Rated valueKA330• at 240 V / Rated valueKA242• at 440 V / Rated valueKA242• at 440 V / Rated valueKA	 communication function 		No
Accessories 3VA2063-7HM46-0AA0 Manufacturer article number / of the supplied basic switch 3VA2063-7HM46-0AA0 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 110 • at 690 V / Rated value kA 150 at 440 V / Rated value kA 2 Maximum short-circuit current breaking capacity (Icu)	 Phase failure detection 		No
Manufacturer article number / of the supplied basic switch 3VA2063-7HM46-0AA0 Short circuit Operational short-circuit current breaking capacity (ics) Image: style="text-align: center;">	 other measurement function 		No
Manufacturer article number / of the supplied basic switch 3VA2063-7HM46-0AA0 Short circuit Operational short-circuit current breaking capacity (ics) Image: style="text-align: center;">	A 22222	_	
switchImage: Constraint of the switch of the sw		_	3\/42063.7HM46.0440
(lcs) KA 150 • at 240 V / Rated value KA 110 • 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 Maximum short-circuit current breaking capacity (lcu) V V • at 240 V / Rated value KA 150 • at 240 V / Rated value KA 150 • at 240 V / Rated value KA 150 • at 240 V / Rated value KA 110 • at 240 V / Rated value KA 110 • at 440 V / Rated value KA 110 • at 690 V / Rated value KA 85 • at 690 V / Rated value KA 330 • at 240 V / Rated value KA 330 • at 415 V / Rated value KA 242 • at 415 V / Rated value KA 242 • at 415 V / Rated value KA 330 • at 415 V / Rated value KA 242	Short circuit Operational short-circuit current breaking capacity	_	
A at 240 V / Rated valueKA150• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 500 V / Rated valueKA85• at 690 V / Rated valueKA2• at 240 V / Rated valueKA150• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 240 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA85• at 450 V / Rated valueKA10• at 440 V / Rated valueKA30• at 440 V / Rated valueKA330• at 450 V / Rated valueKA330• at 440 V / Rated valueKA32• at 440 V / Rated valueKA330• at 440 V / Rated valueKA342• at 440 V / Rated valueKA342• at 440 V / Rated valueKA310• at 440 V / Rated valueKA342• at 440 V / Rated val			
 at 140 V / Rated value 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 at 440 V / Rated value kA 110 at 440 V / Rated value kA 855 at 690 V / Rated value kA 855 at 690 V / Rated value kA 330 Short-circuit current making capacity (Icm) at 240 V / Rated value kA 22 Short-circuit current making capacity (Icm) at 240 V / Rated value kA 242 at 415 V / Rated value kA 242 at 440 V / Rated value kA 187 		kA	150
 at 10 V / Rated value 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 at 440 V / Rated value kA 110 at 500 V / Rated value kA 85 at 690 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 240 V / Rated value kA 330 at 415 V / Rated value kA 242 at 440 V / Rated value kA 242 	• at 415 V / Rated value	kA	110
• at 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 valueKA242• at 440 V / Rated valueKA316	• 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)	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 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2Shot-circuit current making capacity (Icm)• at 240 V / Rated valuekA330• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA187		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 500 V / Rated value kA 187		kA	242
• at 500 V / Rated value kA 187	• at 440 V / Rated value	kA	242
		kA	187
	at 690 V / Rated value	kA	

Connections						
Arrangement of electrical connectors / for main		Front termin	al			
current circuit						
Type of connectable conductor cross-section						
 of the round conductor terminal / stranded 		1 x (6-120 m	1 x (6-120 mm²)			
Type of electrical connection / for main current circuit		Box termina	Box terminal			
Mechanical Design						
Height	mm	181				
Width	mm	140	140			
Depth	mm	107	107			
Mounting type		fixed mounti	fixed mounting			
Environmental conditions						
Ambient temperature						
 during operation / minimum 	°C	-25				
 during operation / maximum 	°C	70	70			
 during storage / minimum 	°C	-40	-40			
 during storage / maximum 	°C	80	80			
Certificates						
Equipment marking						
• acc. to DIN EN 61346-2		Q				
• acc. to DIN EN 81346-2		Q				
General Product Approval	E	MC	Declaration of Conformity	other		
		other	((other		
			EG-Konf.			

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

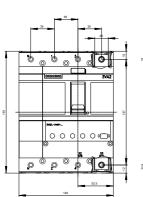
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA20637HM460AA0

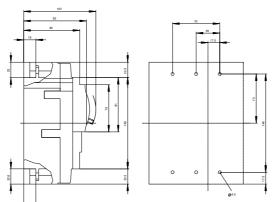
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20637HM460AA0/all

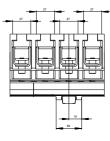
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20637HM460AA0

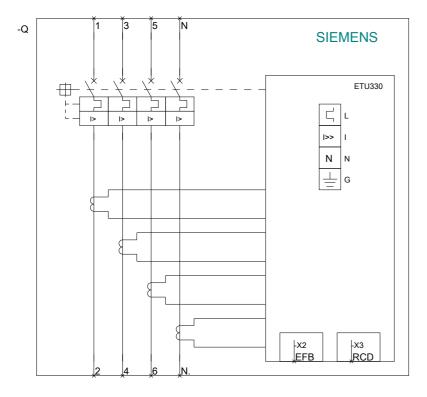
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv









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