SIEMENS

Data sheet



3VA2140-7HN46-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU350, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,100%) 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		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		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 / on the front IP40 Protection class IP / on the front IP40 Switching capacity Switching capacity class of the circuit breaker C Dissipation Active power lose • maximum W 1.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 40 Adjustable response value current / of the A 12 instantaneous short-circuit release / initial value Main circuit Coperating current • with AC / at 50/60 Hz / Rated value A 40 • at 60 °C / Rated value A 40 • at 70 °C /	Protection class IP	_	IP40
Protective function of the overcurrent release LSI Switching capacity C Switching capacity class of the circuit breaker C Dissipation C Adive power loss w • maximum W 1.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 12 Instantaneous short-circuit release / initial value A 12 Main circuit Operating outage • 690 Operating outage • 40 40 • at 40 ° C / Rated value A 40 410 • at 40 ° C / Rated value A 40 410 • at 60 ° C / Rated value A 40 410 • at 60 ° C / Rated value A 40 410 • at 60 ° C / Rated value A 40 410 • at 60 ° C / Rated value A 40 410 • at 60 ° C / Rated value A 40 410 • at 60 ° C / Rated value A 40 410 • at 60 ° C			
Switching capacity class of the circuit breaker C Dissipation Active power loss vmaximum Active power loss vmaximum N 1.6 Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A 40 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage v 690 Operating outlage A 40 • with AC / at 50/60 Hz / Rated value V 690 Operating outlage A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 10 Number of NO contacts /			
Switching capacity class of the circuit breaker C Dissipation C Active power loss u • maximum W 1.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 40 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage e • with AC / at 50/60 Hz / Rated value V 690 Operating current a 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 70 °C / Rated value A 40 Auxiliary circuit Number of NC contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters A 12 Adjustable response value current A 12 • of the short-time delayed short-circuit release / initial value A 12			
Dissipation Active power loss W 1.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 160 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating outrent operating current V 690 Operating current • at 40 °C / Rated value V 690 Operating current • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 70 °C / Rated value A			
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• maximum W 1.6 Electricity Continuous current / Rated value A 160 Continuous current / Rated value A 40 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Personal of C / Rated value V 690 Operating voltage e 40 • with AC / at 50/60 Hz / Rated value V 690 Operating current A 40 • at 40 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 67 °C / Rated value A 40 • at 67 °C / Rated value A 10 Suitability circuit X 1.5 Number of NO contacts / for auxiliary contacts 0 Adjustable response value current A 12 • of 1-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / Initial value 1.5	Dissipation		
Electricity A 160 Continuous current / Rated value A 40 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating current • at 40 °C / Rated value A 40 • at 50 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value D 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability Suitability Adjustable parameters A 12 Adjustable response value current A 1.5 • of the short-time delayed short-circuit release / Full-s	Active power loss		
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 40 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage • • • with AC / at 50/60 Hz / Rated value V 690 Operating current A 40 • at 40 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 Auxiliary circuit Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 0 Suitability Suitability Suitability Suitability Suitability 1.5 of the short-time delayed short-circuit release / initial value A 10 • of the short-time delayed short-circuit r	● maximum	W	1.6
Continuous current / Rated value A 40 Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit V 690 Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current 40 40 • at 40 °C / Rated value A 40 • at 50 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 Suitability Suitability 0 Suitability Suitability for use system protection Adjustable response value current A 12 • of the short-time delayed short-circuit release / Initial value A 10 • of the short-time delayed short-circuit release / Initial value A	Electricity		
Adjustable response value current / of the instantaneous short-circuit release / initial value A 12 Main circuit Operating voltage 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current 4 40 • at 40 °C / Rated value A 40 • at 50 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 Number of NO contacts / for auxiliary contacts 0 0 Suitability Suitability 5 5 Suitability Suitability 12 5 Adjustable response value current A 12 15 • of the short-time delayed short-circuit release / A 10<	Continuous current / Rated value / maximum	А	160
Instantaneous short-circuit release / initial value Main circuit Operating voltage v • with AC / at 50/60 Hz / Rated value V • at 40 °C / Rated value A • at 40 °C / Rated value A • at 60 °C / Rated value A • at 60 °C / Rated value A • at 60 °C / Rated value A • at 65 °C / Rated value A • at 65 °C / Rated value A • at 70 °C / Rated value O Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability Suitability of I-trip / Full-scale value A • of I-trip / Full-scale value A • of the short-time del	Continuous current / Rated value	А	40
Main circuit Operating voltage V 690 Operating current	Adjustable response value current / of the	А	12
Operating voltage v 690 Operating current A 40 • at 40 °C / Rated value A 40 • at 50 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • At 70 °C / Rated value A 40 • At 70 °C / Rated value A 40 • Attributity Suitability circuit 0 Suitability for use system protection 1 Adjustable parameters A 12 Adjustable response value current A 12 • of the short-time delayed short-circuit release / initial value A 10 • of the short-time delayed short-circuit release / initial value 0.02	instantaneous short-circuit release / initial value		
• with AC / at 50/60 Hz / Rated value V 690 Operating current	Main circuit		
Operating current A 40 • at 40 °C / Rated value A 40 • at 50 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • Atjustable response value 0 0 Number of NO contacts / for auxiliary contacts 0 0 Suitability for use system protection System protection Adjustable response value current 4 12 • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value s 0.02 • o	Operating voltage		
• at 40 °C / Rated valueA40• at 50 °C / Rated valueA40• at 60 °C / Rated valueA40• at 65 °C / Rated valueA40• at 65 °C / Rated valueA40• at 70 °C / Rated value0• at 70 °C / Rated value0• of NC contacts / for auxiliary contacts0• of NC contacts / for auxiliary contacts0• of NO contacts / for auxiliary contacts0• of I-trip / Full-scale valueA• of I-trip / Full-scale valueA• of the short-time delayed short-circuit release / Initial valueA• of the short-time delayed short-circuit release / Full-scale valueA• of S-trip / with 12t characteristic / initial valueS• of S-trip / with 12t characteristic / initial valueS• of S-trip / with 12t characteristic / Full-scaleS• of S-trip / with 12t characteristic / Full-scaleS<	 with AC / at 50/60 Hz / Rated value 	V	690
at 50 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 60 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 Autiliary circuit A 40 Auxiliary circuit 0 0 Number of NC contacts / for auxiliary contacts 0 Suitability 0 0 Suitability for use system protection Adjustable parameters A 12 Adjustable response value current A 12 • of the short-time delayed short-circuit release / initial value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 Adjustable delay time s 0.02 0.4 • of S-trip / with 12t characteristic / initial value s 0.4	Operating current		
att 60 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 Auxiliary circuit A 40 Auxiliary circuit 0 0 Auxiliary circuit 0 0 Suitability 0 0 Suitability for use system protection Adjustable parameters A 12 Adjustable response value current A 12 • of 1-trip / Full-scale value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale s 0.4	• at 40 °C / Rated value	А	40
• at 65 °C / Rated value A 40 • at 70 °C / Rated value A 40 • at 70 °C / Rated value A 40 Auxiliary circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters A Adjustable response value current A • of I-trip / Full-scale value A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of S-trip / with I2t characteristic / initial value s 0.02 • of S-trip / with I2t characteristic / Full-scale s 0.4	• at 50 °C / Rated value	А	40
• at 70 °C / Rated value A 40 Auxiliary circuit Auxiliary circuit Number of NC contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 12 of the short-time delayed short-circuit release / initial value of the short-time delayed short-circuit release / Full-scale value Adjustable delay time of S-trip / with I2t characteristic / initial value s 0.02 0.02 	• at 60 °C / Rated value	А	40
Auxiliary circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • of the short-time delayed short-circuit release / initial value A • of the short-time delayed short-circuit release / Full-scale value A • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale s 0.4	● at 65 °C / Rated value	А	40
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable parameters Adjustable response value current A • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 1.5 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value S 0.02 • of S-trip / with 12t characteristic / Full-scale S 0.4	● at 70 °C / Rated value	А	40
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable parameters Adjustable response value current A • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 1.5 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value S 0.02 • of S-trip / with 12t characteristic / Full-scale S 0.4	Auxiliary circuit		
Suitability system protection Adjustable parameters Adjustable response value current Adjustable response value current • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 1.5 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value \$ 0.02 • of S-trip / with 12t characteristic / Full-scale value \$ 0.4		_	0
Suitability for use system protection Adjustable parameters Adjustable response value current A • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 1.5 • of the short-time delayed short-circuit release / full-scale value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale value s 0.4	Number of NO contacts / for auxiliary contacts		0
Suitability for use system protection Adjustable parameters Adjustable response value current A • of I-trip / Full-scale value A 12 • of the short-time delayed short-circuit release / initial value A 1.5 • of the short-time delayed short-circuit release / full-scale value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 • of S-trip / with 12t characteristic / initial value s 0.02 • of S-trip / with 12t characteristic / Full-scale value s 0.4	Suitability	_	
Adjustable parameters Adjustable response value current A 12 • of I-trip / Full-scale value A 1.5 • of the short-time delayed short-circuit release / initial value A 1.5 • of the short-time delayed short-circuit release / Full-scale value A 10 Adjustable delay time 0.02 • of S-trip / with 12t characteristic / Full-scale s 0.4		_	system protection
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• of I-trip / Full-scale valueA12• of the short-time delayed short-circuit release / initial valueA1.5• of the short-time delayed short-circuit release / Full-scale valueA10• of the short-time delayed short-circuit release / Full-scale valueA0.02• of S-trip / with 12t characteristic / initial values0.02• of S-trip / with 12t characteristic / Full-scale values0.4		_	
 • of the short-time delayed short-circuit release / initial value • of the short-time delayed short-circuit release / Full-scale value • Adjustable delay time • of S-trip / with 12t characteristic / initial value • of S-trip / with 12t characteristic / Full-scale s • of S-trip / with 12t characteristic / Full-scale s • of S-trip / with 12t characteristic / Full-scale s 		٨	10
initial value A 10 • of the short-time delayed short-circuit release / Full-scale value A 10 Adjustable delay time S 0.02 • of S-trip / with 12t characteristic / initial value S 0.4	•		
Full-scale value s 0.02 Adjustable delay time s 0.4 • of S-trip / with 12t characteristic / initial value s 0.4		А	1.5
of S-trip / with l2t characteristic / initial value of S-trip / with l2t characteristic / Full-scale value s 0.02 0.4	-	A	10
• of S-trip / with I2t characteristic / Full-scale s 0.4	Adjustable delay time		
value	• of S-trip / with I2t characteristic / initial value	S	0.02
Adjustable response value current / of the current- A 0.4	-	S	0.4
dependent overload release / initial value		A	0.4

Product component No • trip indicator No • display No • undervoltage release No Product properly • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof No • Froduct expansion / optional / motor drive Yes Product function Yes • Intrinsic device protection No • Intrinsic device protection No • other measurement function No • at 240 V / Rated value KA 150 • at 300 V / Rated value KA 10 • at 600 V / Rated value KA 150	Product details		
origipal origipaly origipaly origital conductors / upgradeable/retrofitable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct functionNo• Intrinsic device protectionYes• Intrinsic device protectionNo• other measurement functionNo• other measurement functionNo• other measurement functionStyle 2400-7HN46-0AA0Short circuitCommunication functionChort circuitStyle 2400-7HN46-0AA0Operational short-circuit current breaking capacity ((cs)I• at 240 V / Rated valueKA150• at 240 V / Rated valueKA25Stort circuit current breaking capacity (ton)I• at 240 V / Rated valueKA150• at 240 V / Rated valueKA25Stort circuit current breaking capacit			
• undervoltage release No Product property • No • for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof No Product expansion / optional / motor drive Yes Product function Yes Product function No • Intrinsic device protection No • Intrinsic device protection No • oremunication function No • other measurement function No • other measurement function No • ather detection and the supplied basic switch SVA2140-7HN46-0AA0 Short octrouit Operational short-circuit current breaking capacity (ics) • at 240 V / Rated value KA 150 • at 450 V / Rated value KA 110 • at 460 V / Rated value KA 150 • at 240 V / Rated value KA 150 • at 450 V / Rated value KA 150 • at 450 V / Rated value KA 150 • at 440 V / Rated value KA 150 • at 440 V / Rated value KA 150	Trip indicator		No
Product property Image: Construction of the supplied basic souther and the sup	● display		No
• for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proofNoProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionYes• Intrinsic device protectionNo• Other measurement functionNo• other measurement functionNo• other measurement functionStructure article number / of the supplied basic switchShort-circuitStructurent breaking capacity ((s)• at 240 V / Rated valueKA• at 240 V / Rated valueKA• at 500 V / Rated valueKA• at 240 V / Rated valueKA• at 500 V / Rated valueKA• at 240 V / Rated valueKA• at 240 V / Rated valueKA• at 500 V / Rated valueKA• at 240 V / Rated valueKA• at 350 V / Rated valueKA• at 450 V / Rated valueKA	 undervoltage release 		No
upgradeable/retrofittable / Short-circuit and overload proofYesProduct expansion / optional / motor driveYesProduct functionYes• Intrinsic device protectionNo• Intrinsic device protectionNo• Ormmunication functionNo• other measurement functionNo• other measurement functionSty2140-7HN46-0AA0• other measurement functionNo• other measurement functionSty2140-7HN46-0AA0• other measurement functionSty2140-7HN46-0AA0• other measurement functionSty2140-7HN46-0AA0• other measurement functionKA150• other measurement functionKA110• other measurement functionKA150• other measur	Product property		
overload proofImage: second secon	 for neutral conductors / 		No
Product expansion / optional / motor drive Yes Product function Intrinsic device protection No • Intrinsic device protection No • communication function No • Phase failure detection No • other measurement function No • other measurement function No Accessories SVA2140-7HN46-0AA0 Schort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value KA • at 415 V / Rated value KA • at 420 V / Rated value KA • at 400 V / Rated value KA • at 400 V / Rated value KA • at 400 V / Rated value KA • at 690 V / Rated value KA • at 690 V / Rated value KA • at 400 V / Rated value KA • at 415 V / Rated value KA • at 400 V / Rated value KA • at 400 V / Rated value KA • at 690 V / Rated value KA • at 400 V / Rated value KA • at 400 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 <td></td> <td></td> <td></td>			
Product function Product function • Intrinsic device protection • communication function • communication function • other measurement function • other measurement function No Accessories Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value KA • at 415 V / Rated value KA • at 400 V / Rated value KA • at 600 V / Rated value KA • at 600 V / Rated value KA • at 415 V / Rated value KA • at 600 V / Rated value KA • at 400 V / Rated value KA • at 600 V / Rated value KA			
Product function Yes • Intrinsic device protection No • communication function No • Phase failure detection No • other measurement function No • other measurement function No Accessories 3VA2140-7HN46-0AA0 Manufacturer article number / of the supplied basic switch 3VA2140-7HN46-0AA0 Short circuit 2 Operational short-circuit current breaking capacity (lcs) 4 • at 240 V / Rated value KA • at 415 V / Rated value KA • at 400 V / Rated value KA • at 400 V / Rated value KA • at 690 V / Rated value KA • at 690 V / Rated value KA • at 415 V / Rated value KA • at 400 V / Rated value KA • at 690 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	Product expansion / optional / motor drive		Yes
• Intrinsic device protectionYes• communication functionNo• Phase failure detectionNo• other measurement functionNo• other measurement functionNoAccessories3VA2140-7/HN46-0AA0Manufacturer article number / of the supplied basic3VA2140-7/HN46-0AA0switch3VA2140-7/HN46-0AA0Short circuitSource +	Product function		
 communication function communication function Phase failure detection other measurement function No No Accessories Annufacturer article number / of the supplied basic switch Short circuit Coperational 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 150 at 440 V / Rated value kA 150 at 440 V / Rated value kA 150 at 440 V / Rated value kA 110 at 440 V / Rated value kA 150 at 440 V / Rated value kA 110 at 440 V / Rated value kA 150 at 440 V / Rated value kA 350 at 440 V / Rated value kA 350 at 440 V / Rated value kA 150 at 440 V / Rated value kA 350 at 440 V / Rated value kA 150 at 440 V / Rated value kA 150 at 440 V / Rated value kA 330 at 415 V / Rated value kA 330 at 415 V / Rated value kA 330 at 415 V / Rated value kA 242 at 440 V / Rated value kA 330 at 415 V / Rated value kA 340 at 440 V / Rated value kA 340 at 440 V / Rated value kA 340 at 440 V / Rated value kA 340 	Product function		
Phase failure detectionNo• other measurement functionNoAccessories3VA2140-7HN46-0AA0Accessories3VA2140-7HN46-0AA0Short circuit3VA2140-7HN46-0AA0Coperational short-circuit current breaking capacity (ics)3VA2140-7HN46-0AA0• at 240 V / Rated valueKA150• at 240 V / Rated valueKA110• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 440 V / Rated valueKA150• at 690 V / Rated valueKA2.5Maximum short-circuit current breaking capacity (icu)•• at 240 V / Rated valueKA150• at 440 V / Rated valueKA150• at 690 V / Rated valueKA2.5Maximum short-circuit current breaking capacity (icu)•• at 240 V / Rated valueKA110• at 440 V / Rated valueKA130• at 440 V / Rated valueKA330• at 450 V / Rated valueKA2.5Short-circuit current making capacity (icm)•• at 240 V / Rated valueKA2.5Short-circuit current making capacity (icm)•• at 240 V / Rated valueKA2.5Short-circuit current making capacity (icm)•• at 240 V / Rated valueKA2.5Short-circuit current making capacity (icm)•• at 240 V / Rated valueKA330• at 415 V / Rated valueKA242• at 440 V / Rated value <td< td=""><td> Intrinsic device protection </td><td></td><td>Yes</td></td<>	 Intrinsic device protection 		Yes
• other measurement functionNoAccessories3VA2140-7HN46-0AA0Manufacturer article number / of the supplied basic switch3VA2140-7HN46-0AA0Short circuitShort circuit current breaking capacity (ics)Image: Supplied basic supplied basic• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA150• at 690 V / Rated valuekA150• at 240 V / Rated valuekA85• at 690 V / Rated valuekA150• at 240 V / Rated valuekA2.5Short-circuit current making capacity (tem)•• at 240 V / Rated valuekA330• at 240 V / Rated valuekA2.5Short-circuit current making capacity (tem)•• at 240 V / Rated valuekA2.5Short-circuit current making capacity (tem)•• at 240 V / Rated valuekA2.5Short-circuit current making c	 communication function 		No
Accessories 3VA2140-7HN46-0AA0 Short circuit 3VA2140-7HN46-0AA0 Short circuit Short circuit current breaking capacity (ics) at 240 V / Rated value • 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 4500 V / Rated value kA 110 • at 690 V / Rated value kA 150 • at 240 V / Rated value kA 110 • at 400 V / Rated value kA 110 • at 690 V / Rated value kA 2.5 Maximum short-circuit current breaking capacity (lcu) Image: Source and the	 Phase failure detection 		No
Manufacturer article number / of the supplied basic switch 3VA2140-7HN46-0AA0 Short circuit Operational short-circuit current breaking capacity (ics) item (ics) • 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 690 V / Rated value kA 85 • at 690 V / Rated value kA 150 • at 240 V / Rated value kA 10 • at 440 V / Rated value kA 85 • at 690 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 440 V / Rated value kA 85 • at 440 V / Rated value kA 2.5 Short-circuit current making capacity (lom)	 other measurement function 		No
switchImage: constraint of the switch of the sw	Accessories		
Short circuitOperational short-circuit current breaking capacity (ics)kA150• at 240 V / Rated valuekA150• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 400 V / Rated valuekA85• at 690 V / Rated valuekA2.5Maximum short-circuit current breaking capacity (icu)·• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 240 V / Rated valuekA110• at 240 V / Rated valuekA110• at 240 V / Rated valuekA120• at 440 V / Rated valuekA130• at 440 V / Rated valuekA2.5Short-circuit current making capacity (icm)·• at 240 V / Rated valuekA2.5Short-circuit current making capacity (icm)·• at 240 V / Rated valuekA2.5Short-circuit current making capacity (icm)·• at 240 V / Rated valuekA2.5Short-circuit current making capacity (icm)·• at 240 V / Rated valuekA242• at 440 V / Rated valuekA <td>Manufacturer article number / of the supplied basic</td> <td></td> <td>3VA2140-7HN46-0AA0</td>	Manufacturer article number / of the supplied basic		3VA2140-7HN46-0AA0
Operational short-circuit current breaking capacity (ics)kA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA85• at 690 V / Rated valuekA2.5Maximum short-circuit current breaking capacity (icu)v• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 240 V / Rated valuekA120• at 240 V / Rated valuekA130• at 415 V / Rated valuekA330• at 440 V / Rated valuekA242• at 450 V / Rated valuekA330• at 240 V / Rated valuekA242• at 240 V / Rated valuekA330• at 240 V / Rated valuekA330• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA187	switch		
(ics) Icities • 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 2.5 Maximum short-circuit current breaking capacity (icu) V V • 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 415 V / Rated value KA 110 • at 440 V / Rated value KA 85 • 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 330 • at 415 V / Rated value KA 340 • at 415 V / Rated value KA 242	Short circuit		
• 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 2.5 Maximum short-circuit current breaking capacity (lou) v v • at 240 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 440 V / Rated value kA 150 • at 440 V / Rated value kA 110 • at 440 V / Rated value kA 110 • at 450 V / Rated value kA 110 • at 450 V / Rated value kA 85 • at 690 V / Rated value kA 85 • at 690 V / Rated value kA 300 • at 420 V / Rated value kA 330 • at 440 V / Rated value kA 242 • at 440 V / Rated value kA 310 • at 440 V / Rated value kA 324 • at 440 V / Rated value kA 242 <			
at 415 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2.5Maximum short-circuit current breaking capacity (lcu)		1.0	150
at 440 V / Rated valuekA110• at 440 V / Rated valuekA85• at 690 V / Rated valuekA2.5Maximum short-circuit current breaking capacity (Icu)			
• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2.5Maximum 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 valuekA85• at 690 V / Rated valuekA330• at 240 V / Rated valuekA330• at 240 V / Rated valuekA130• at 500 V / Rated valuekA141• at 415 V / Rated valuekA141• at 440 V / Rated valuekA142• at			
• at 690 V / Rated valuekA2.5Maximum short-circuit current breaking capacity (Icu)• at 240 V / Rated valuekA150• at 240 V / Rated valuekA110• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 440 V / Rated valuekA2.5Short-circuit current making capacity (Icm)• at 240 V / Rated valuekA330• at 240 V / Rated valuekA330• at 240 V / Rated valuekA330• at 240 V / Rated valuekA130• at 415 V / Rated valuekA130• at 410 V / Rated valuekA141• at 400 V / Rated valuekA141• at 500 V / Rated valuekA141 <td></td> <td></td> <td></td>			
Maximum short-circuit current breaking capacity (lcu) Image: constraint of the state of the sta			
• at 240 V / Rated valuekA150• at 415 V / Rated valuekA110• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2.5Short-circuit current making capacity (Icm)• at 240 V / Rated valuekA330• at 240 V / Rated valuekA242• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187		кА	2.5
• at 415 V / Rated valueKA110• at 440 V / Rated valueKA110• at 500 V / Rated valueKA85• at 690 V / Rated valueKA2.5Short-circuit current making capacity (Icm)		1-0	450
• at 440 V / Rated valuekA110• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2.5Short-circuit current making capacity (Icm)			
• at 500 V / Rated valuekA85• at 690 V / Rated valuekA2.5Short-circuit current making capacity (Icm)			
• at 690 V / Rated valuekA2.5Short-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			
Short-circuit current making capacity (Icm)KA330• at 240 V / Rated valuekA242• at 415 V / Rated valuekA242• at 440 V / Rated valuekA242• at 500 V / Rated valuekA187			
• 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		kA	2.5
 at 415 V / Rated value at 440 V / Rated value kA 242 kA 242 kA 242 kA 187 			
 at 440 V / Rated value kA 242 ka 500 V / Rated value kA 187 			
• at 500 V / Rated value kA 187			
	• at 440 V / Rated value		
at 690 V / Rated value kA 3.75	• at 500 V / Rated value		
	• at 690 V / Rated value	kA	3.75
Connections	Connections		

Arrangement of electrical connectors / for main current circuit		Front termin	al	
Type of connectable conductor cross-section				
 of the round conductor terminal / stranded 		1 x (6-120 m	nm²)	
Type of electrical connection / for main current circuit		Box termina	I	
Mechanical Design				
Height	mm	181		
Width	mm	140		
Depth	mm	107		
Mounting type		fixed mounti	ng	
Environmental conditions				
Ambient temperature				
 during operation / minimum 	°C	-25		
 during operation / maximum 	°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	E	MC	Declaration of Conformity	Shipping Approval
		<u>other</u>	EG-Konf.	ĴÅ DNV DNV
Shipping other Approval				

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urther information

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

other

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21407HN460AA0

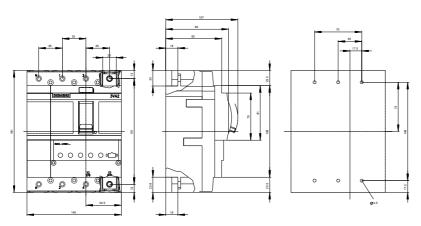
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21407HN460AA0/all

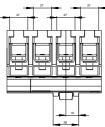
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21407HN460AA0

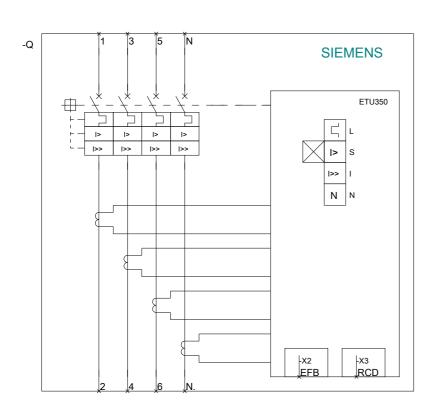
CAx-Online-Generator

http://www.siemens.com/cax

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







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