



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY
CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION
TM210, FTFM, IN=50A OVERLOAD PROTECTION IR=50A FIXED
SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL
UNPROTECTED BUSBAR CONNECTION UNDERVOLTAGE
RELEASE (UVR) 24 V DC

Model	
product brandname	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Design of the overcurrent release	TM210
Protective function of the overcurrent release	LI
Number of poles	4
Design of the auxiliary release	Undervoltage release (UVR)
Design of the auxiliary switch	Without
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Max. rated operational voltage Ue with DC	600 V
Operating power / at AC-3 / at 400 V	0 W
Operating power / at AC-3 / at 230 V	0 W
Active power loss / for rated value of the current / at AC / in hot operating state / per device	17.1 W
Mechanical service life (switching cycles) / typical	15 000

Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Without
Product function	
• communication function	No
• Phase failure detection	No
• other measurement function	No
Net weight	1.2 kg

Electricity

Max. rated operational voltage of the size of the circuit-breaker	100 A
Courant permanent assigné Iu	50 A
Operating current	
• at 40 °C	50 A
• at 45 °C	50 A
• at 50 °C	50 A
• at 55 °C	48 A
• at 60 °C	47 A
• at 65 °C	46 A
• at 70 °C	45 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	S
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 690 V	7 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 690 V	5 kA
Short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 690 V	11.9 kA

Adjustable parameters

Adjustable response value current / I _g min.	0 A
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Adjustable response value current / Ig min.	0 A
Adjustable response value current / Ig min.	0 A
Adjustable response value current / Ig min.	0 A
Adjustable response value current / Ii min.	0 A
Adjustable response value current / Ii max.	0 A
Design of the N-conductor protection	Without

Mechanical Design

Height	130 mm
Width	101.6 mm
Depth	70 mm

Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	lug terminal
Type of connectable conductor cross-section, connection screw, width x thickness , min.	12 x 0
Type of connectable conductor cross-section, connection screw, width x thickness , max.	17 x 6.5

Auxiliary circuit

Product component	
• undervoltage release	Yes
• Voltage trigger	No
• undervoltage release with leading contact	No
• Trip indicator	No

Accessories

Product extension / optional / motor drive	No
Manufacturer's article number	
• of the supplied basic switch	3VA1050-4ED42-0AA0
• of the integrated auxiliary trip	3VA9608-0BB11

Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Certificates

Equipment marking / acc. to DIN EN 81346-2	Q
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General Product Approval			EMC	Declaration of Conformity	
 CCC	 VDE	 EAC	sonstig	 RCM	 EG-Konf.

Test Certificates	Shipping Approval
Typprüfbescheinigung/Werkszeugnis	sonstig
	 ABS  BUREAU VERITAS  GL  LRS

Shipping Approval	other
 RMRS	sonstig

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/3VA1050-4ED42-0BA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3VA1050-4ED42-0BA0/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

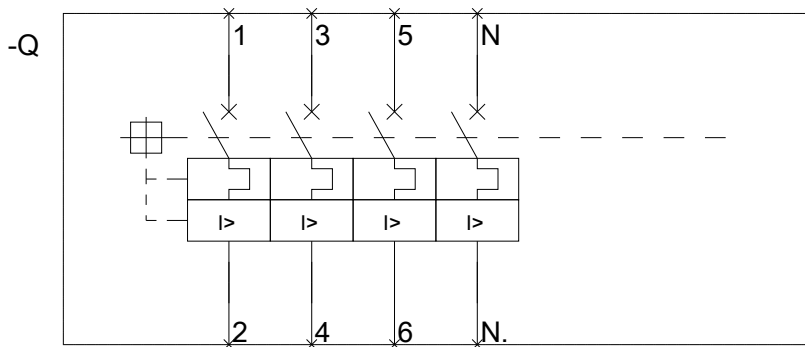
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1050-4ED42-0BA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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