



Miniature circuit breaker 230 V D=70 mm 25 kA according to EN 60947-2, 1P+N, C4

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	1P+N
tripping characteristic class	C
mechanical service life (switching cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (U _i)	250 V
<ul style="list-style-type: none"> with single-phase operation at AC rated value 	230 V
supply voltage with single-phase operation at AC rated value	230 V
Supply voltage	
supply voltage	230 V
<ul style="list-style-type: none"> at AC rated value 	230 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	15 kA
<ul style="list-style-type: none"> at DC according to IEC 60947-2 rated value according to IEC 60947-2 rated value 	50 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.3 W
Current	
operational current	4 A
<ul style="list-style-type: none"> at 45 °C rated value at 50 °C rated value at 55 °C rated value at AC rated value 	3.88 A 3.75 A 4 A
suitability for operation	Mechanical engineering / industry
Product details	
product component	Yes
<ul style="list-style-type: none"> combined terminal top 	Yes

<ul style="list-style-type: none"> combined terminal bottom neutral conductor switching 	Yes	
product feature		
<ul style="list-style-type: none"> properties for main switches in accordance with EN 60204-1 halogen-free sealable silicon-free 	Yes	
product extension installable supplementary devices	Yes	
Short circuit		
breaking capacity short-circuit current (I _{cn})		
<ul style="list-style-type: none"> at AC according to UL 1077 and CSA C22.2 No.235 	5 kA	
Connections		
connectable conductor cross-section solid		
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ²	35 mm ²
connectable conductor cross-section stranded		
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ²	35 mm ²
connectable conductor cross-section finely stranded with core end processing		
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ²	25 mm ²
AWG number as coded connectable conductor cross section		
<ul style="list-style-type: none"> minimum maximum 	18	4
tightening torque [lbf-in] with screw-type terminals		
<ul style="list-style-type: none"> minimum maximum 	22 lbf-in	31 lbf-in
tightening torque with screw-type terminals		
<ul style="list-style-type: none"> minimum maximum 	2.5 N·m	3.5 N·m
position of power supply cord		Any
Mechanical Design		
height		90 mm
width		36 mm
depth		76 mm
installation depth		70 mm
number of modular width units		2
fastening method		Quick assembly system
mounting position		any
net weight		314 g
Environmental conditions		
influence of the surrounding temperature		max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance according to IEC 60068-2-6		±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz
ambient temperature during operation		
<ul style="list-style-type: none"> minimum maximum 	-25 °C	55 °C
ambient temperature during storage		
<ul style="list-style-type: none"> minimum maximum 	-40 °C	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30		6
Certificates		
reference code		
<ul style="list-style-type: none"> according to EN 61346-2 according to IEC 81346-2 	F	F
General Product Approval		Declaration of Conformity



other

[Miscellaneous](#)

[Environmental Confirmations](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY8504-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8504-7>

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

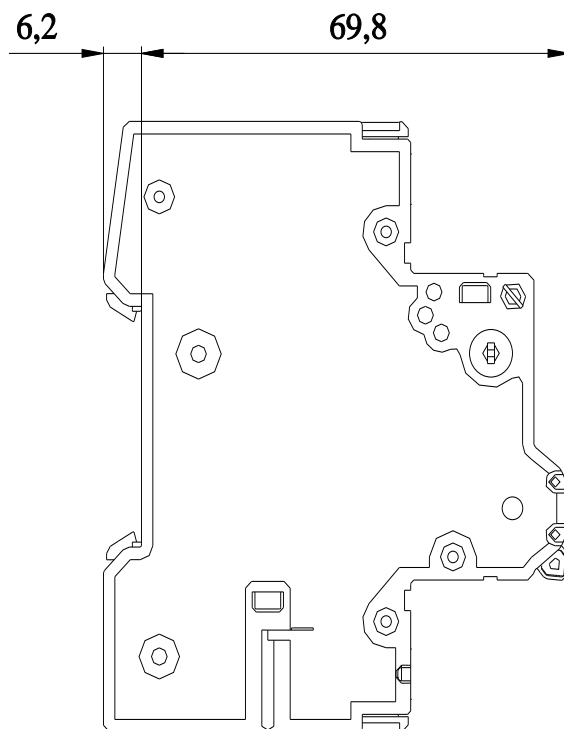
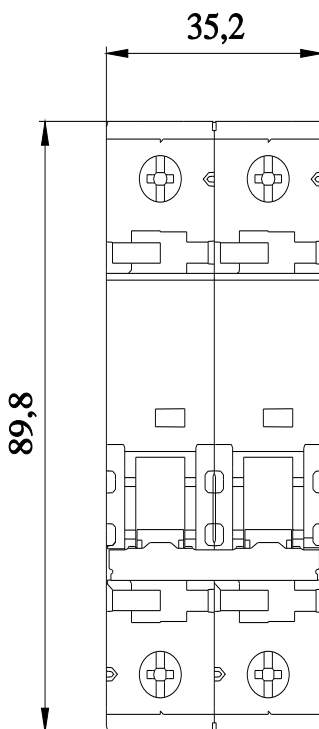
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8504-7

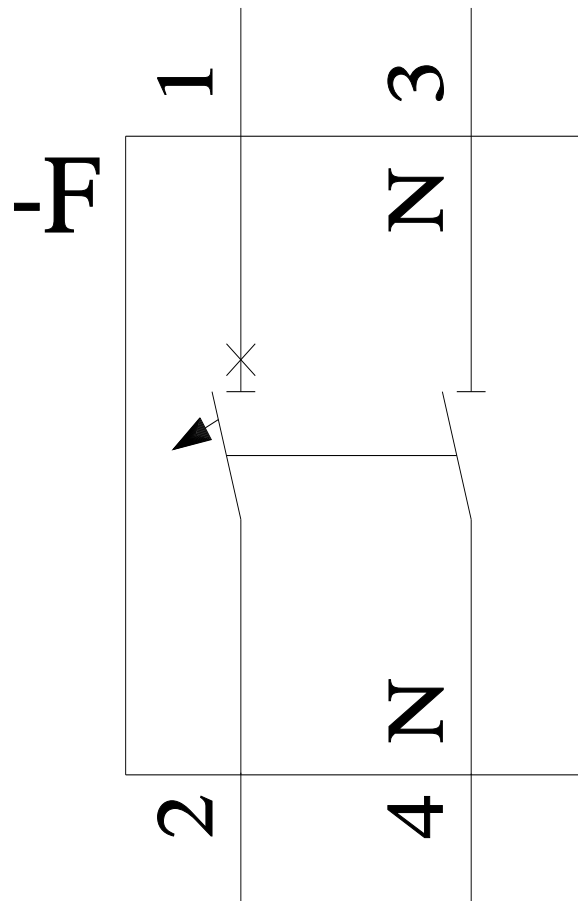
CAX-Online-Generator

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

Tender specifications

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





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