SIEMENS

Data sheet 5SY5163-7



Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, C, 63A

product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	C
mechanical service life (operating cycles) typical	5 000
overvoltage category	III
degree of pollution	3
/oltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (Ui)	
at DC rated value	250 V
 with single-phase operation at AC rated value 	440 V
 with multi-phase operation at AC rated value 	440 V
supply voltage with single-phase operation at AC rated value	230 V
operational current	
• at 40 °C rated value	59.16 A
• at 50 °C rated value	55.06 A
• at 55 °C rated value	52.92 A
 at 60 °C rated value 	50.65 A
 at AC rated value 	63 A
Supply voltage	
supply voltage	
• at AC	400 V
at DC rated value	220 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	250 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
 at DC according to IEC 60947-2 rated value 	15 kA
 according to EN 60898 rated value 	10 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	6 W

suitability for operation	Infrastructure / Industry / Mobility	
Product details	, , , , , , , , , , , , , , , , , , , ,	
product feature touch protection	Yes	
product component		
combined terminal top	Yes	
combined terminal bottom	Yes	
neutral conductor switching	No	
product feature		
 properties for main switches in accordance with EN 60204-1 	Yes	
• halogen-free	Yes	
• sealable	Yes	
• silicon-free	Yes	
product extension installable supplementary devices	Yes	
Short circuit		
short-circuit current breaking capacity (lcn)		
 at DC according to EN 60898-2 	10 kA	
Connections		
connectable conductor cross-section solid		
• minimum	0.75 mm²	
maximum	35 mm²	
connectable conductor cross-section stranded		
• minimum	0.75 mm²	
maximum	35 mm²	
connectable conductor cross-section finely stranded with core end processing		
• minimum	0.75 mm²	
• maximum	25 mm²	
AWG number as coded connectable conductor cross section		
• minimum	18	
• maximum	4	
tightening torque [lbf·in] with screw-type terminals		
• minimum	22 lbf·in	
• maximum	31 lbf-in	
tightening torque with screw-type terminals	0.5.11	
• minimum	2.5 N·m	
• maximum	3.5 N·m	
position of power supply cord	AC as required, observe DC polarity	
Mechanical Design		
height	90 mm	
width	18 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	1 DIN soil	
fastening method	DIN rail	
mounting position	any	
net weight Environmental conditions	178 g	
	IEC / EN 60909 2 111 1077	
standard	IEC / EN 60898-2, UL1077	
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz	
ambient temperature during operation	-40 °C	
• minimum	-40 °C 70 °C	
maximum ambient temperature during storage	70 0	
ambient temperature during storage	40 °C	
• minimum	-40 °C	
maximum number of test evalue for anylicomental testing according	75 °C	
number of test cycles for environmental testing according to IEC 60068-2-30	6	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	13.3 kg	

global warming potential [CO2 eq] during manufacturing	0.73 kg
global warming potential [CO2 eq] during operation	12.7 kg
global warming potential [CO2 eq] after end of life	-0.069 kg

Approvals Certificates

General Product Approval











Miscellaneous

General Product Approval

Test Certificates

Marine / Shipping

other

EHC

Miscellaneous

Special Test Certificate



Miscellaneous

Confirmation

Railway

Dangerous goods

Environment

Confirmation

Special Test Certificate

Transport Information





Environmental Confirmations

Environment

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

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

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY5163-7}$

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY5163-7

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

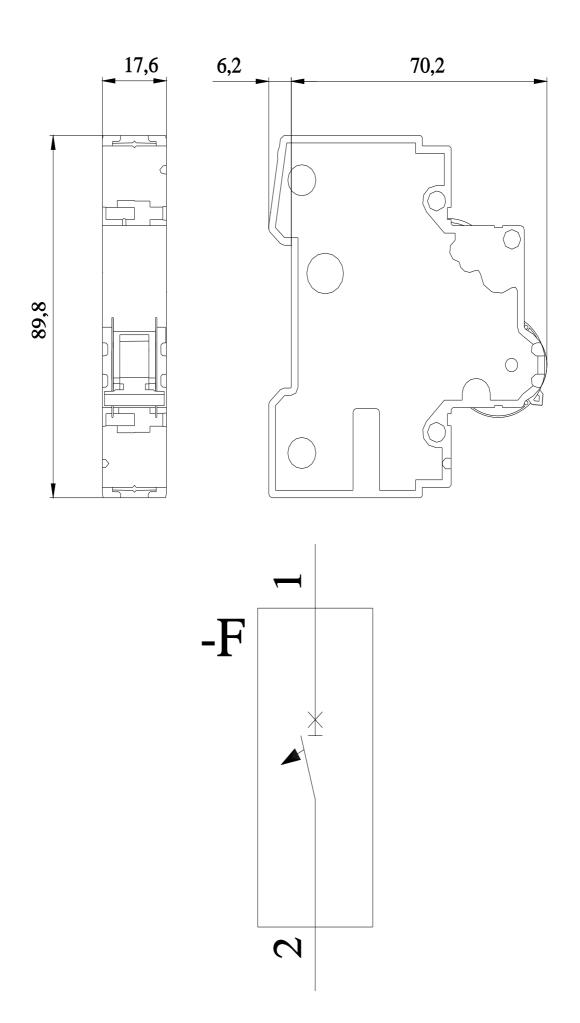
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5163-7

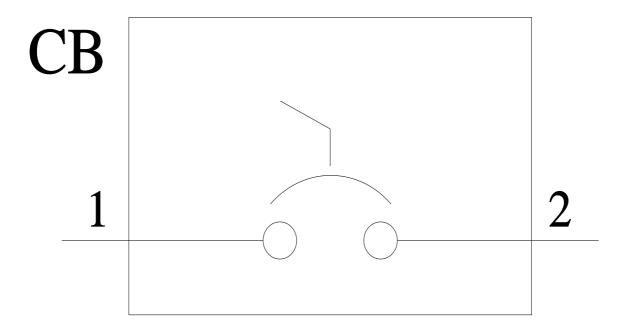
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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