



CIRCUIT BREAKER CURR. SENS DC 220V AC
230/400V 10KA, 1-POLE, C, 0.5A

Model		
product brand name		SENTRON
Product designation		5SY miniature circuit breaker
Design of the product		5SY miniature circuit breakers

General technical data		
Number of poles		1
Number of poles / Note		1P
Tripping characteristic class		C
circuit-breaker / Design		5SY5
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

Voltage		
Insulation voltage		
<ul style="list-style-type: none"> • for DC / Rated value 	V	250
<ul style="list-style-type: none"> • with single-phase operation / with AC / Rated value 	V	250
<ul style="list-style-type: none"> • with multi-phase operation / with AC / Rated value 	V	440

Supply voltage		
Supply voltage frequency / Rated value	Hz	50

Protection class		
Protection class IP		IP20, with connected conductors
Energy limiting class		3

Switching capacity

Switching capacity current

- | | | |
|--|----|----|
| • for DC / acc. to IEC 60947-2 / Rated value | kA | 15 |
| • acc. to EN 60898 / Rated value | kA | 10 |

Dissipation

Active power loss

- | | | |
|--|---|-----|
| • for rated value of the current / with AC / in hot operating state / per pole | W | 0.8 |
|--|---|-----|

Electricity

- | | | |
|---------------------------------|---|-----|
| Current / with AC / Rated value | A | 0.5 |
|---------------------------------|---|-----|

Product details

- | | | |
|------------------------------------|--|-----|
| Product feature / Touch protection | | Yes |
|------------------------------------|--|-----|

Product component

- | | | |
|----------------------------|--|-----|
| • combined terminal top | | Yes |
| • combined terminal bottom | | Yes |

Product property

- | | | |
|--|--|-----|
| • Properties for main switches in accordance with EN 60204-1 | | Yes |
| • halogen-free | | Yes |
| • sealable | | Yes |
| • silicon-free | | Yes |

- | | | |
|--|--|-----|
| Product expansion / can be installed / supplementary devices | | Yes |
|--|--|-----|

Product function

- | | | |
|--|--|----|
| Product function / neutral conductor switching | | No |
|--|--|----|

Short circuit

Breaking capacity short-circuit current (I_{cn})

- | | | |
|-------------------------------|----|----|
| • for DC / acc. to EN 60898-2 | kA | 10 |
|-------------------------------|----|----|

Number

- | | | |
|--|--|---|
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | | 6 |
|--|--|---|

Connections

Connectable conductor cross-section / stranded

- | | | |
|-----------|-----------------|------|
| • minimum | mm ² | 0.75 |
| • maximum | mm ² | 35 |

Connectable conductor cross-section

- | | | |
|--|-----------------|------|
| • solid | | |
| — minimum | mm ² | 0.75 |
| — maximum | mm ² | 35 |
| • finely stranded / with core end processing | | |

— minimum	mm ²	0.75
— maximum	mm ²	25
AWG number / as coded connectable conductor cross section		
• minimum		14
• maximum		4
Tightening torque [lbf·in] / with screw-type terminals		
• minimum	lbf·in	22
• maximum	lbf·in	26
Tightening torque / with screw-type terminals		
• minimum	N·m	2.5
• maximum	N·m	3
Position / of power supply cord		Any

Mechanical Design		
Height	mm	90
Width	mm	18
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		1
Mounting type		Quick assembly system

Environmental conditions		
Influence of the surrounding temperature		Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27		150m/s ² at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6		50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Ambient temperature		
• minimum	°C	-25
• maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

Certificates		
Equipment marking / acc. to DIN EN 61346-2		F

General Product Approval	Declaration of Conformity	Test Certificates
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CCC



GOST



VDE



EG-Konf.

[other](#)

other

[other](#)

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/5SY51057>

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

<http://support.automation.siemens.com/WW/view/en/5SY51057/all>

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

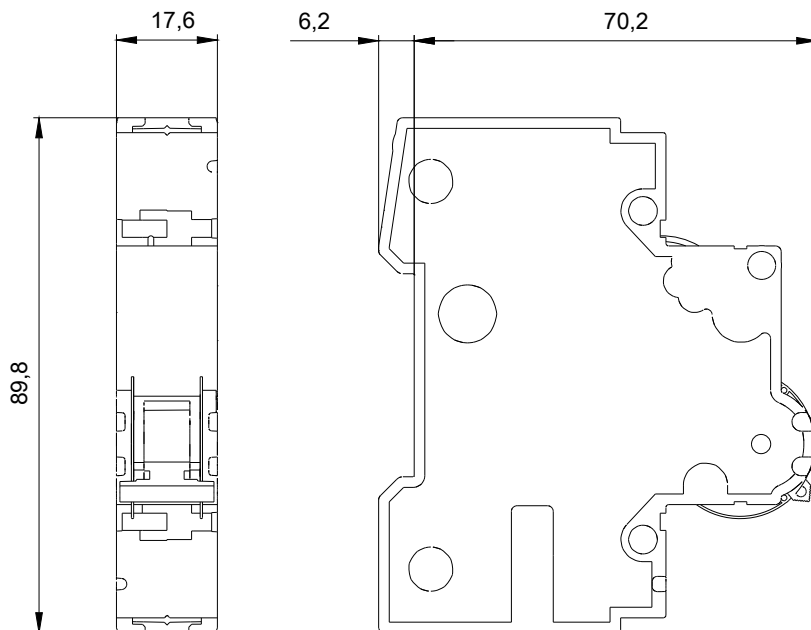
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY51057

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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