

CIRCUIT BREAKER 400V 25KA, 2POLE, C, 20A, D=70MM



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		2
Number of poles / Note		2P
Tripping characteristic class		C
circuit-breaker / Design		5SY8
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

Voltage		
Insulation voltage		
• 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	25
• acc. to IEC 60947-2 / Rated value	kA	30
Dissipation		
Active power loss		
• for rated value of the current / with AC / in hot operating state / per pole	W	1.7
Electricity		
rated current I _n / IEC, DIN/VDE		
• at 40 Cel	A	19.2
Current / with AC		
• Rated value	A	20
Net weight	g	305
Appearance		
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})		
• with AC / acc. to UL 1077 and CSA C22.2 No.235	kA	5
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	36
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		2
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

Reference code

• acc. to DIN EN 61346-2

F

General Product Approval

Declaration of Conformity



[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/5SY82207>

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

<http://support.automation.siemens.com/WW/view/en/5SY82207/all>

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

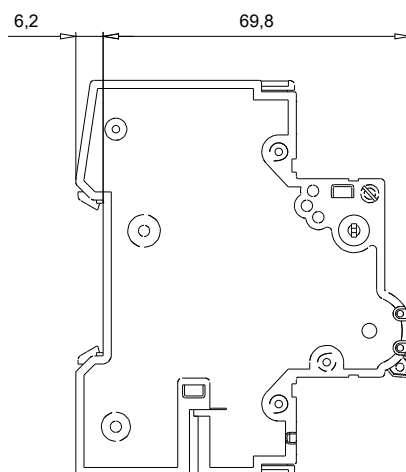
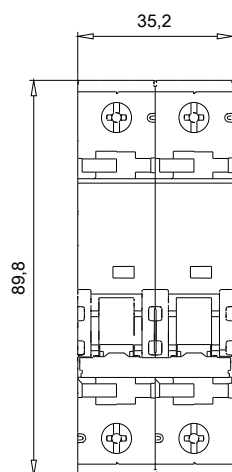
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY82207

CAX-Online-Generator

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

Tender specifications

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



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