

CIRCUIT BREAKER 400V 10KA, 3-POLE, B, 80A, 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		3
Number of poles / Note		3P
Tripping characteristic class		B
circuit-breaker / Design		5SY4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

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

Supply voltage		
Supply voltage frequency		
<ul style="list-style-type: none"> 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
• acc. to IEC 60947-2 / Rated value	kA	10
Dissipation		
Active power loss		
• for rated value of the current / with AC / in hot operating state / per pole	W	6.7
Electricity		
Current / with AC		
• Rated value	A	80
Net weight	g	508
Appearance		
Product details		
Product feature		Yes
• Touch protection		Yes
Product component		Yes
• combined terminal top		Yes
• combined terminal bottom		Yes
Product property		Yes
• Properties for main switches in accordance with EN 60204-1		Yes
• halogen-free		Yes
• sealable		Yes
• silicon-free		Yes
Product expansion / can be installed		Yes
• supplementary devices		Yes
Product function		
Product function		No
• neutral conductor switching		No
Short circuit		
Breaking capacity short-circuit current (Icn)		
• with AC / acc. to UL 1077 and CSA C22.2 No.235	kA	5
• for DC / acc. to EN 60898-2	kA	10
Number		

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

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Connections

Connectable conductor cross-section / stranded

- minimum mm² 0.75
- maximum mm² 35

Connectable conductor cross-section

- solid
 - minimum mm² 0.75
 - maximum mm² 35
- finely stranded / with core end processing
 - minimum mm² 0.75
 - maximum mm² 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	54
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		3
Mounting type		Quick assembly system

Environmental conditions

Influence of the surrounding temperature		Max. 95% humidity
Shock resistance		150m/s ² at 11ms half-sine
• acc. to IEC 60068-2-27		
Vibration resistance		50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
• acc. to IEC 60068-2-6		
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

Test Certificates

Shipping Approval



GOST



[other](#)



DNV

[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/5SY43806>

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

<http://support.automation.siemens.com/WW/view/en/5SY43806/all>

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

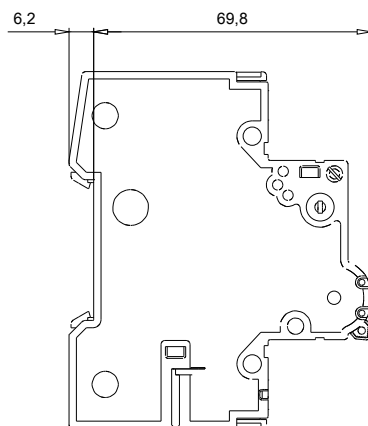
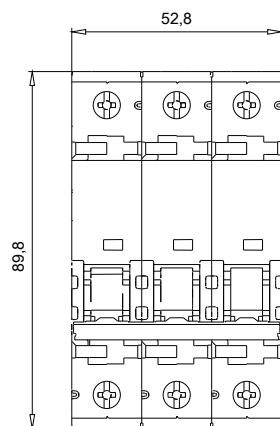
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY43806

CAX-Online-Generator

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

Tender specifications

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





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