

Miniature circuit breaker 400 V 10kA, 3-pole, C, 50 A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	3
Number of poles / Note	3P
Tripping characteristic class	C
circuit-breaker / Design	5SY4
Mechanical service life (switching cycles) / typical	20 000
Oversoltage category	III
Voltage	
Type of voltage	AC/DC
Insulation voltage	440 V
<ul style="list-style-type: none"> with multi-phase operation / at AC / rated value 	440 V
Supply voltage	
Supply voltage	400 V
<ul style="list-style-type: none"> at AC / rated value 	400 V
Supply voltage frequency	

- rated value

50/60 Hz

Protection class

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

Switching capacity

Switching capacity current	
<ul style="list-style-type: none"> • at DC / acc. to IEC 60947-2 / rated value 	15 kA
<ul style="list-style-type: none"> • acc. to EN 60898 / rated value 	10 kA
<ul style="list-style-type: none"> • acc. to IEC 60947-2 / rated value 	15 kA

Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.8 W
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Electricity

Tripping residual / rated value / derated current / at 40 Cel	48 A
Current / at AC / rated value	50 A
Suitability for operation	Mechanical engineering / industry

Product details

Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> • combined terminal top 	Yes
<ul style="list-style-type: none"> • combined terminal bottom 	Yes
Product feature	
<ul style="list-style-type: none"> • Properties for main switches in accordance with EN 60204-1 	Yes
<ul style="list-style-type: none"> • halogen-free 	Yes
<ul style="list-style-type: none"> • sealable 	Yes
<ul style="list-style-type: none"> • silicon-free 	Yes
Product extension / can be installed / supplementary devices	Yes

Product function

Product function / neutral conductor switching	No
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Short circuit

Breaking capacity short-circuit current (I _{cn})	
<ul style="list-style-type: none"> • at AC / acc. to UL 1077 and CSA C22.2 No.235 	5 kA

Number

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

Connectable conductor cross-section / stranded	
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<ul style="list-style-type: none"> • minimum • maximum 	<p>0.75 mm²</p> <p>35 mm²</p>
Connectable conductor cross-section	
<ul style="list-style-type: none"> • solid <ul style="list-style-type: none"> — minimum — maximum • finely stranded / with core end processing <ul style="list-style-type: none"> — minimum — maximum 	<p>0.75 mm²</p> <p>35 mm²</p> <p>0.75 mm²</p> <p>25 mm²</p>
AWG number / as coded connectable conductor cross section	
<ul style="list-style-type: none"> • minimum • maximum 	<p>14</p> <p>4</p>
Tightening torque [lbf·in] / with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	<p>22 lbf·in</p> <p>26 lbf·in</p>
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	<p>2.5 N·m</p> <p>3 N·m</p>
Position / of power supply cord	Any

Mechanical Design

Height	90 mm
Width	54 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	3
Mounting type	Quick assembly system
Net weight	488 g

Environmental conditions

Degree of pollution	3
Influence of the surrounding temperature	Max. 95% humidity
Vibration resistance / acc. to IEC 60068-2-6	50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Ambient temperature	
<ul style="list-style-type: none"> • minimum • maximum • during storage / minimum • during storage / maximum 	<p>-25 °C</p> <p>55 °C</p> <p>-40 °C</p> <p>75 °C</p>

Certificates

Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 	F

General Product Approval



CCC



IMQ



UR



VDE



RCM

[Miscellaneous](#)

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
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[KC](#)



EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)



ABS



BUREAU VERITAS

Shipping Approval

Railway



LRS



RINA

[Confirmation](#)

[Vibration and Shock](#)

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=5SY4350-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4350-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4350-7

CAX-Online-Generator

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

Tender specifications

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





