

Miniature circuit breaker 400 V 10kA, 2-pole, C, 30 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	2P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
<b>insulation voltage (Ui)</b>	
<ul style="list-style-type: none"> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> </ul>	440 V
	440 V
<b>operational current</b>	
<ul style="list-style-type: none"> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 55 °C rated value</li> <li>at 60 °C rated value</li> <li>at AC rated value</li> </ul>	28.56 A
	27.06 A
	26.25 A
	25.44 A
	30 A
Supply voltage	
<b>supply voltage</b>	
<ul style="list-style-type: none"> <li>at AC</li> <li>at DC rated value</li> </ul>	400 V
	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
<b>switching capacity current</b>	
<ul style="list-style-type: none"> <li>at DC according to IEC 60947-2 rated value</li> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA
	10 kA
	20 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2.3 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
<b>product component</b>	
<ul style="list-style-type: none"> <li>combined terminal top</li> <li>combined terminal bottom</li> <li>neutral conductor switching</li> </ul>	Yes
	Yes
	No
<b>product feature</b>	
<ul style="list-style-type: none"> <li>properties for main switches in accordance with EN 60204-1</li> <li>halogen-free</li> <li>sealable</li> <li>silicon-free</li> </ul>	Yes
	Yes
	Yes
	Yes
product extension installable supplementary devices	Yes

Product function	
set values setting current (Ii) for I-tripping	6,5
reference value setting current (Ii) for I-tripping	x In
Short circuit	
short-circuit current breaking capacity (Icn)	5 kA
• at AC according to UL 1077 and CSA C22.2 No.235	
Connections	
connectable conductor cross-section solid	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
• minimum	
• maximum	
connectable conductor cross-section stranded	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
• minimum	
• maximum	
connectable conductor cross-section finely stranded with core end processing	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
• minimum	
• maximum	
AWG number as coded connectable conductor cross section	18 4
• minimum	
• maximum	
tightening torque [lbf-in] with screw-type terminals	22 lbf-in 31 lbf-in
• minimum	
• maximum	
tightening torque with screw-type terminals	2.5 N·m 3.5 N·m
• minimum	
• maximum	
position of power supply cord	Any
Mechanical Design	
height	90 mm
width	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
<b>fastening method</b>	Quick assembly system
mounting position	any
net weight	316 g
Environmental conditions	
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz
ambient temperature during operation	-40 °C 70 °C
• minimum	
• maximum	
ambient temperature during storage	-40 °C 75 °C
• minimum	
• maximum	
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	16.8 kg
Global Warming Potential [CO2 eq] during manufacturing	1.13 kg
Global Warming Potential [CO2 eq] during operation	15.7 kg
Global Warming Potential [CO2 eq] after end of life	-0.00046 kg
Approvals Certificates	
General Product Approval	



Confirmation



General Product Approval	EMV	Test Certificates
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[Miscellaneous](#)



[Miscellaneous](#)



[Special Test Certificate](#)

[Miscellaneous](#)

Marine / Shipping	other
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[Confirmation](#)

other	Railway	Environment
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[Miscellaneous](#)

[Special Test Certificate](#)

[Confirmation](#)



[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information
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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)  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4230-7>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SY4230-7>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4230-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4230-7)  
 CAx-Online-Generator  
<http://www.siemens.com/cax>  
 Tender specifications  
<http://www.siemens.com/specifications>

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