



Device circuit breaker 1-pole with auxiliary switch NO contact Characteristic F1 0.5A 230 V AC 50/60 Hz 60 V DC Icn 3 kA AC according to IEC 60934

Model	
product brand name	SENTRON
product designation	Device protection switch
General technical data	
number of poles	1
design of pole	1P+AS
tripping characteristic class	F1
mechanical service life (operating cycles) typical	6 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (Ui)	
• at DC rated value	72 V
• with single-phase operation at AC rated value	250 V
Supply voltage	
supply voltage	
• at AC rated value	230 V
• at DC rated value	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
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2 W
Current	
operational current	
• at 35 °C rated value	0.48 A
• at 40 °C rated value	0.46 A
• at 45 °C rated value	0.45 A
• at 50 °C rated value	0.43 A
• at 55 °C rated value	0.42 A
• at 60 °C rated value	0.4 A
• at AC rated value	0.5 A
Product details	
product component	
• combined terminal top	No
• combined terminal bottom	No
• neutral conductor switching	No

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 installable supplementary devices	Yes

Connections

connectable conductor cross-section solid	
<ul style="list-style-type: none"> • minimum 	0.5 mm ²
<ul style="list-style-type: none"> • maximum 	16 mm ²
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> • minimum 	0.5 mm ²
<ul style="list-style-type: none"> • maximum 	16 mm ²
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> • minimum 	0.5 mm ²
<ul style="list-style-type: none"> • maximum 	10 mm ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • minimum 	20
<ul style="list-style-type: none"> • maximum 	6
tightening torque [lbf·in] with screw-type terminals	
<ul style="list-style-type: none"> • minimum 	17.7 lbf·in
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> • minimum 	2 N·m
<ul style="list-style-type: none"> • maximum 	2.5 N·m
position of power supply cord	Any

Mechanical Design

height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	DIN rail
mounting position	Horizontal/vertical
net weight	92.9 g

Environmental conditions

influence of the surrounding temperature standard	30 °C @ 85%rF; 60 °C @ 20%rF"
vibration resistance according to IEC 60068-2-6	IEC / DIN EN 60934, UL1077
ambient temperature during operation	Yes
<ul style="list-style-type: none"> • minimum 	-25 °C
<ul style="list-style-type: none"> • maximum 	60 °C
ambient temperature during storage	
<ul style="list-style-type: none"> • minimum 	-40 °C
<ul style="list-style-type: none"> • maximum 	70 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6

General Product Approval

Declaration of Conformity

[Confirmation](#)



Test Certificates

other

[Miscellaneous](#)

[Confirmation](#)

[Environmental Con-
firmations](#)

[Miscellaneous](#)

Further information

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?mfb=5SY1705-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY1705-2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY1705-2

CAX-Online-Generator

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

Tender specifications

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





