



Miniature circuit breaker 400 V 10kA, 3-pole, C, 16A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	C
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage / of the operating voltage	AC
insulation voltage (U _i)	
• with single-phase operation / at AC / rated value	440 V
• with multi-phase operation / at AC / rated value	440 V
supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	
supply voltage	
• at AC / rated value	400 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
Switching capacity	
switching capacity current	
• at DC / according to IEC 60947-2 / rated value	15 kA
• according to EN 60898 / rated value	10 kA
• according to IEC 60947-2 / rated value	20 kA
energy limitation class	3
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.6 W
Current	
operational current	
• at 35 °C / rated value	16 A
• at 40 °C / rated value	15.23 A
• at 45 °C / rated value	14.83 A
• at 50 °C / rated value	14.43 A

<ul style="list-style-type: none"> • at 55 °C / rated value • at 60 °C / rated value • at AC / rated value 	<p>14 A</p> <p>13.57 A</p> <p>16 A</p>
suitability for operation	Mechanical engineering / industry
Product details	
product component / neutral conductor switching	No
product feature / touch protection	Yes
product component <ul style="list-style-type: none"> • combined terminal top • combined terminal bottom 	<p>Yes</p> <p>Yes</p>
product feature <ul style="list-style-type: none"> • properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product extension / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (I _{cn}) <ul style="list-style-type: none"> • at AC / according to UL 1077 and CSA C22.2 No.235 	5 kA
Connections	
connectable conductor cross-section / solid <ul style="list-style-type: none"> • minimum • maximum 	<p>0.75 mm²</p> <p>35 mm²</p>
connectable conductor cross-section / stranded <ul style="list-style-type: none"> • minimum • maximum 	<p>0.75 mm²</p> <p>35 mm²</p>
connectable conductor cross-section / finely stranded / with core end processing <ul style="list-style-type: none"> • minimum • maximum 	<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>18</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>31 lbf-in</p>
tightening torque / with screw-type terminals <ul style="list-style-type: none"> • minimum • maximum 	<p>2.5 N·m</p> <p>3.5 N·m</p>
position / of power supply cord	Any
Mechanical Design	
height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
fastening method	Quick assembly system
mounting position	any
net weight	418 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
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 ² at 25 to 150Hz
ambient temperature / during operation <ul style="list-style-type: none"> • minimum • maximum 	<p>-40 °C</p> <p>70 °C</p>
ambient temperature / during storage	

- minimum -40 °C
- maximum 75 °C

number of test cycles / for environmental testing / according to IEC 60068-2-30 6

Certificates

reference code
 • according to EN 61346-2 F
 • according to IEC 81346-2 F

General Product Approval

[Confirmation](#)



[Miscellaneous](#)

General Product Approval

EMC

Declaration of Conformity

[KC](#)



[Miscellaneous](#)



[UK Declaration of Conformity](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Miscellaneous](#)



Marine / Shipping

other

Railway



[Miscellaneous](#)

[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=5SY4316-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4316-7>

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

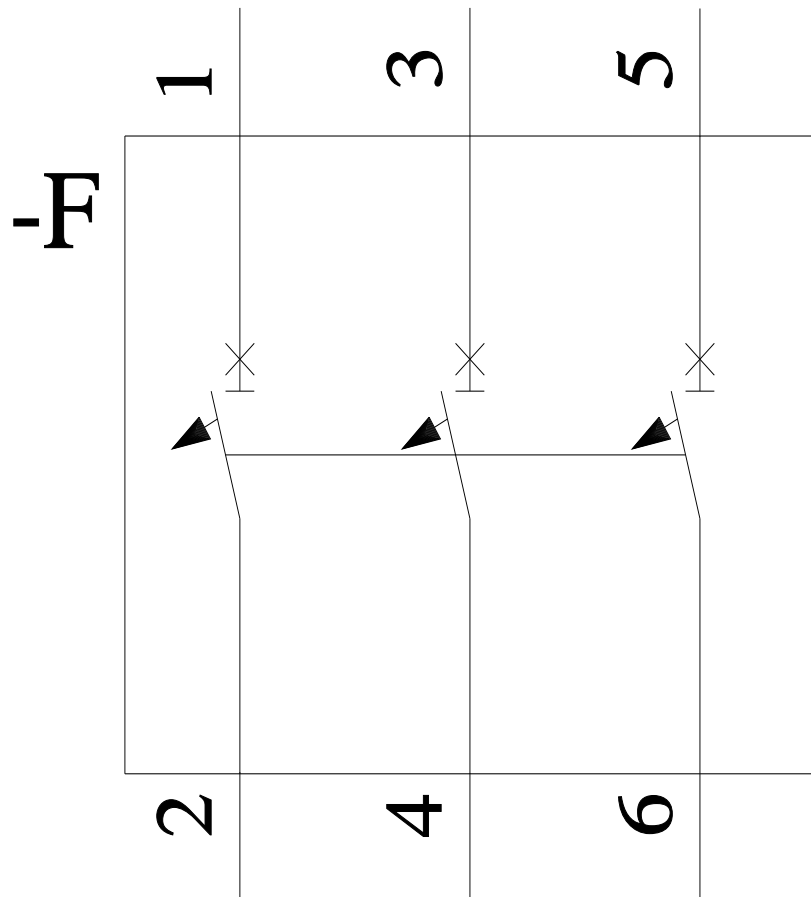
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4316-7

CAx-Online-Generator

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

Tender specifications

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



CB

