SIEMENS

Data sheet 5SY5216-7

CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 16A



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker

General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	C
circuit-breaker / Design	5SY5
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3

Voltage	
Type of voltage	AC/DC
Insulation voltage	
• at DC / rated value	250 V
• with multi-phase operation / at AC / rated value	440 V

Supply voltage	
Supply voltage / at AC / rated value	400 V
Supply voltage frequency	

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• rated value	50/60 Hz

Protection class

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

Switching capacity

Switching capacity current	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA

Dissipation

Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	1.6 W
• maximum	3.2 W

Electricity

Current / at AC / rated value	16 A
Suitability for operation	universal current

Product details

Product feature / Touch protection	Yes
Product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Product function

Product function / neutral conductor switching	No

Short circuit

Breaking capacity short-circuit current (Icn)	
• at DC / acc. to EN 60898-2	10 kA

Number

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

Connections

Connectable conductor cross-section / stranded	

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• minimum	0.75 mm²
• maximum	35 mm²
Connectable conductor cross-section	
• solid	
— minimum	0.75 mm²
— maximum	35 mm²
• finely stranded / with core end processing	
— minimum	0.75 mm²
— maximum	25 mm²
AWG number / as coded connectable conductor cross section	
• minimum	14
• maximum	4
Tightening torque [lbf·in] / with screw-type terminals	
• minimum	22 lbf·in
• maximum	26 lbf·in
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	AC as required, observe DC polarity

Mechanical Design

Height	90 mm
Width	36 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	2
Mounting type	Quick assembly system
Net weight	315 g

Environmental conditions

Degree of pollution	3
Influence of the surrounding temperature	Max. 95% humidity
Vibration resistance / acc. to IEC 60068-2-6	50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
Ambient temperature	
• minimum	-25 °C
• maximum	55 °C
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

Certificates

Equipment marking / acc. to DIN EN 61346-2	F

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General Product Approval			Declaration of Conformity	Test Certificates
 CCC	 VDE	Miscellaneous	 EG-Konf.	Miscellaneous

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=5SY5216-7

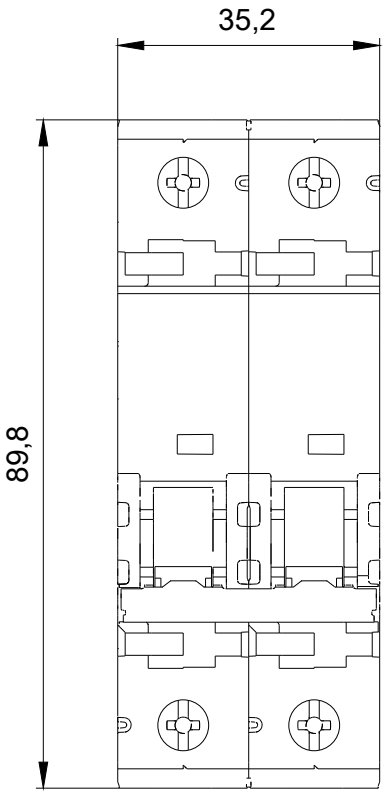
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SY5216-7

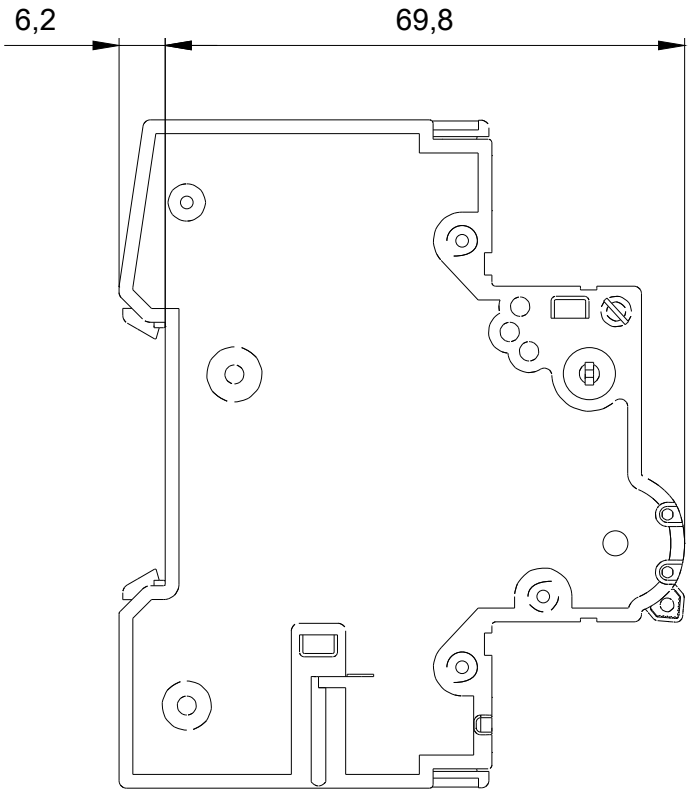
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5216-7

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications

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