

CIRCUIT BREAKER 400V 25KA, 4POLE, D, 1.6A, D=70MM



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	4
Number of poles / Note	4P
Tripping characteristic class	D
characteristic / Let-through current characteristic	DS_5SY_D_1_6
circuit-breaker / Design	5SY8
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
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 / 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 IEC 60947-2 / rated value 	70 kA

Dissipation

Power loss [W]	
<ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole 	1 W
<ul style="list-style-type: none"> • maximum 	3 W

Electricity

rated current I_n / IEC, DIN/VDE / at 40 Cel	1.504 A
Current / at AC / rated value	1.6 A
Current limitation characteristic, no. / Let-through energy	DE_5SY_D_1_6
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	
• minimum	0.75 mm ²
• maximum	35 mm ²
Connectable conductor cross-section	
• solid	
— minimum	0.75 mm ²
— maximum	35 mm ²
• finely stranded / with core end processing	
— minimum	0.75 mm ²
— maximum	25 mm ²
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	Any

Mechanical Design

Height	90 mm
Width	72 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	4
Mounting type	Quick assembly system
Net weight	625 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	
• minimum	-25 °C
• maximum	55 °C
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

Certificates

General Product Approval

Declaration of Conformity

[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=5SY8415-8>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SY8415-8>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8415-8**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>



