

CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, B, 50A



Model	
product brandname	SENTRON
Product designation	5SY miniature circuit breaker
Design of the product	5SY miniature circuit breakers
General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	B
circuit-breaker / Design	5SY5
Mechanical service life (switching cycles) / typical	10 000
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

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 EN 60898 / rated value 	10 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 	4.3 W
<ul style="list-style-type: none"> • maximum 	8.6 W
Electricity	
Current / at AC / rated value	50 A
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
Short circuit	
Breaking capacity short-circuit current (I_{cn})	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • minimum 	0.75 mm ²
<ul style="list-style-type: none"> • maximum 	35 mm ²

Connectable conductor cross-section	
<ul style="list-style-type: none"> • solid <ul style="list-style-type: none"> — minimum 0.75 mm² — maximum 35 mm² • finely stranded / with core end processing <ul style="list-style-type: none"> — minimum 0.75 mm² — maximum 25 mm² 	
AWG number / as coded connectable conductor cross section	
<ul style="list-style-type: none"> • minimum 14 • maximum 4 	
Tightening torque [lbf·in] / with screw-type terminals	
<ul style="list-style-type: none"> • minimum 22 lbf·in • maximum 26 lbf·in 	
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum 2.5 N·m • maximum 3 N·m 	

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	339 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27	150m/s ² at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6	50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Ambient temperature	
<ul style="list-style-type: none"> • 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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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)<http://www.siemens.com/lowvoltage/catalogs>**Industry Mall (Online ordering system)**<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY5250-6>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/5SY5250-6/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5250-6**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

