SIEMENS

Data sheet 5SY4310-6



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

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
number of poles / note	3P
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
insulation voltage	
• 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	
type of voltage	AC
operational current / at AC / rated value	10 A
supply voltage	
• at AC / rated value	400 V
operating voltage / at DC / rated value / maximum	72 V
supply voltage frequency / rated value	50/60 Hz
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
• acc. 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	1.3 W
suitability for operation	Mechanical engineering / industry
Product details	
product function / neutral conductor switching	No

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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 / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn)	
● at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section / solid	
● minimum	0.75 mm²
● maximum	35 mm²
connectable conductor cross-section / stranded	
● minimum	0.75 mm²
● maximum	35 mm²
connectable conductor cross-section / finely stranded / with core end processing	
● minimum	0.75 mm²
● maximum	25 mm²
AWG number / as coded connectable conductor cross section	
● minimum	18
● maximum	4
tightening torque [lbf·in] / with screw-type terminals	
● minimum	22 lbf·in
● maximum	31 lbf·in
tightening torque / with screw-type terminals	
● minimum	2.5 N·m
● maximum	3.5 N·m
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	439 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance / acc. to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature / during operation	
● minimum	-40 °C
● maximum	70 °C
ambient temperature / during storage	
● minimum	-40 °C
● maximum	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
Certificates	
reference code	
● acc. to DIN EN 61346-2	F

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● acc. to IEC 81346-2	F

General Product Approval

CCC IMQ UR VDE CB

Miscellaneous

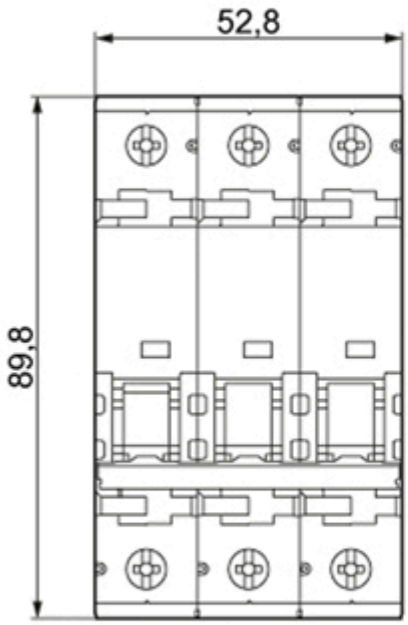
General Product Approval	Declaration of Conformity	Test Certificates		Marine / Shipping
RCM EAC	CE EG-Konf.	Special Test Certificate	Miscellaneous	ABS

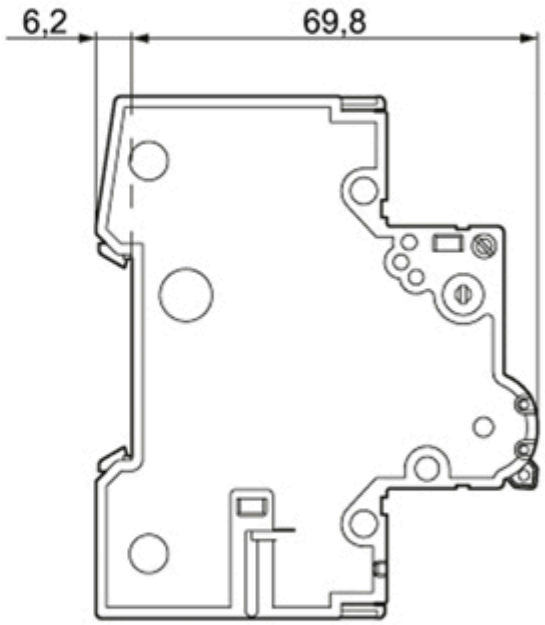
Marine / Shipping				Railway	
BUREAU VERITAS	Lloyd's Register LRS	RINA	DNV·GL	Vibration and Shock	Confirmation

Further information

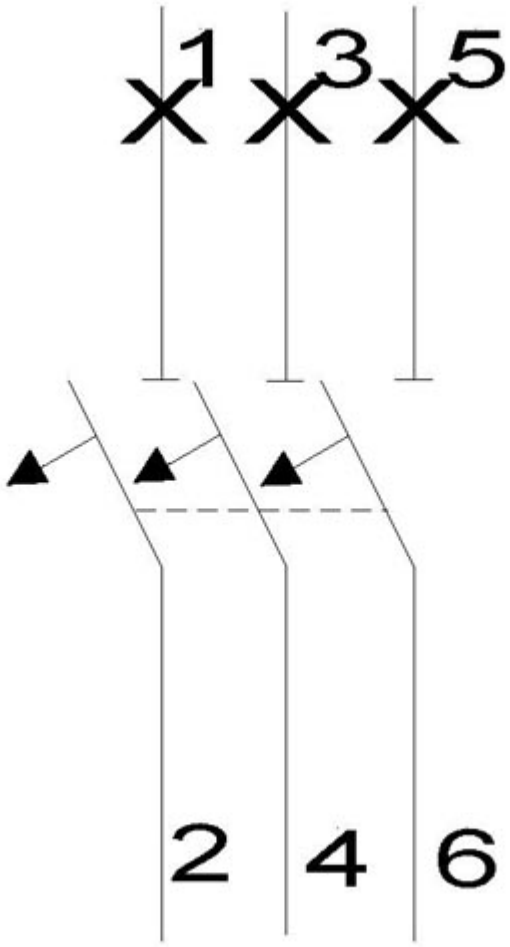
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4310-6
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SY4310-6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4310-6
Tender specifications
http://www.siemens.com/specifications

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