SIEMENS

Data sheet 5SY8315-7



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P, C1.6

product brand name	SENTRON
product designation	Miniature circuit breaker
eneral technical data	
number of poles	3
design of pole	3P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
oltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui)	
 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
operational current	
at 50 °C rated value	1.57 A
• at 55 °C rated value	1.53 A
at AC rated value	1.6 A
upply voltage	
supply voltage	
• at AC	400 V
at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	72 V
rotection class	
protection class IP	IP20, with connected conductors
reaking Capacity	
switching capacity current	
 at DC according to IEC 60947-2 rated value 	15 kA
 according to IEC 60947-2 rated value 	70 kA
ssipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.2 W
suitability for operation	Infrastructure / Industry
oduct details	
product feature touch protection	Yes

minimum maximum ambient temperature during storage minimum maximum number of test cycles for environmental testing according to IEC 60068-2-30 Approvals Certificates	-25 °C 55 °C -40 °C 75 °C 6
minimum maximum ambient temperature during storage minimum maximum number of test cycles for environmental testing according to IEC 60068-2-30	55 °C -40 °C 75 °C
minimum maximum ambient temperature during storage minimum maximum number of test cycles for environmental testing according	55 °C -40 °C 75 °C
minimum maximum ambient temperature during storage minimum	55 °C -40 °C
minimum maximum ambient temperature during storage	55 °C
minimum maximum	
• minimum	
	-25 °C
	05.00
ambient temperature during operation	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
standard	IEC / EN 60947-2 / UL1077
Environmental conditions	
net weight	467 g
mounting position	any
fastening method	S DIN rail
installation depth number of modular width units	70 mm 3
depth	76 mm
width	54 mm
height	90 mm
Mechanical Design	00 mm
position of power supply cord	Any
maximum position of power supply cord	3.5 N·m
• minimum	2.5 N·m
tightening torque with screw-type terminals	25 N m
• maximum	31 lbf·in
• minimum	22 lbf·in
tightening torque [lbf-in] with screw-type terminals	22 lbf in
maximum tightening torque [liftin] with corow type formingle	4
• minimum	18
section	40
AWG number as coded connectable conductor cross	
maximum	25 mm²
• minimum	0.75 mm ²
core end processing	
connectable conductor cross-section finely stranded with	
maximum	35 mm ²
minimum	0.75 mm²
connectable conductor cross-section stranded	OO HIIII
maximum	35 mm ²
minimum	0.75 mm²
connectable conductor cross-section solid	
Connections	V 10 (
at AC according to UL 1077 and CSA C22.2 No.235	5 kA
short-circuit current breaking capacity (Icn)	
Short circuit	AIII
reference value setting current (li) for I-tripping	x In
set values setting current (li) for I-tripping	7
Product function	165
product extension installable supplementary devices	Yes
sealable silicon-free	Yes Yes
halogen-free	Yes
60204-1	V
 properties for main switches in accordance with EN 	Yes
product feature	
neutral conductor switching	No
 combined terminal bottom 	Yes
 combined terminal top 	Yes











Confirmation

Environment



Environmental Con-firmations

Environmental Confirmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=5SY8315-7

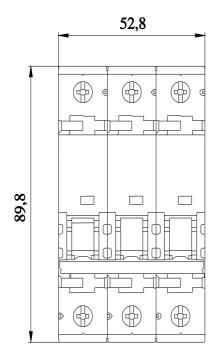
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

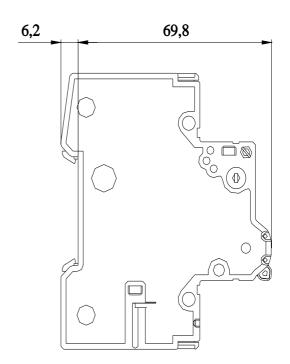
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8315-7

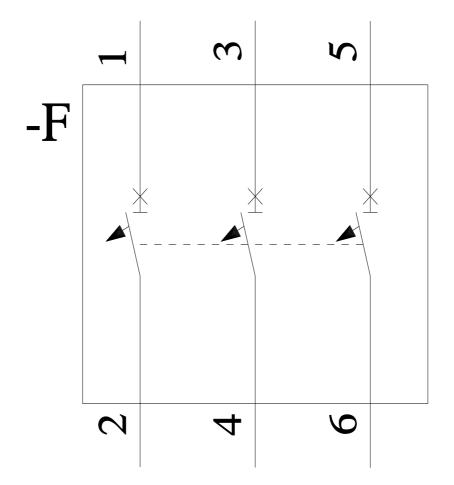
CAx-Online-Generator

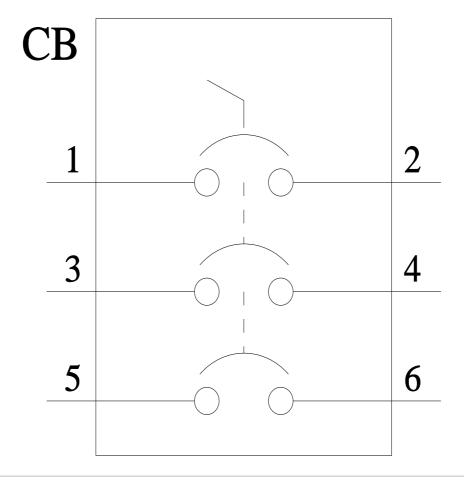
http://www.siemens.com/cax

Tender specifications









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