SIEMENS

Data sheet 5SY8620-8



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P+N, D20 $\,$

Figure similar

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	3P+N
tripping characteristic class	D
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
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 	19.5 A
 at 55 °C rated value 	18.98 A
 at AC rated value 	20 A
Supply 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
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
 at DC according to IEC 60947-2 rated value 	15 kA
according to IEC 60947-2 rated value	30 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.6 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes

product component	
 combined terminal top 	Yes
 combined terminal bottom 	Yes
 neutral conductor switching 	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
Product function	
set values setting current (li) for I-tripping	14
reference value setting current (li) for I-tripping	x In
Short circuit	
short-circuit current breaking capacity (Icn)	
at AC according to UL 1077 and CSA C22.2 No.235	5 kA
Connections	V 10 C
connectable conductor cross-section solid	
	0.75 mm²
• minimum	
maximum	35 mm ²
connectable conductor cross-section stranded	0.75 *****2
• minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with core end processing	
minimum	0.75 mm²
maximum	25 mm ²
AWG number as coded connectable conductor cross	23 11111
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	72 mm
depth	76 mm
installation depth	70 mm
number of modular width units	4
fastening method	DIN rail
mounting position	any
net weight	612 g
Environmental conditions	IFO / FN 00047 0 / I II 4077
standard	IEC / EN 60947-2 / UL1077
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature during operation	07.00
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
Approvals Certificates	
General Product Approval	other











Confirmation

Environment

Environmental Con-firmations



Environmental Con-firmations

Information on the packaging

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=5SY8620-8

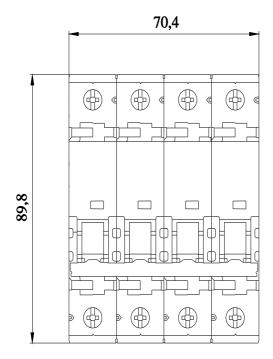
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

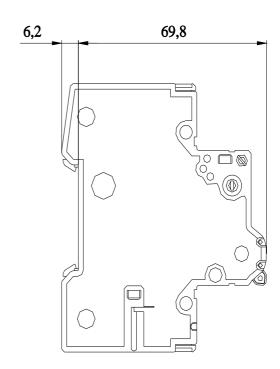
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8620-8

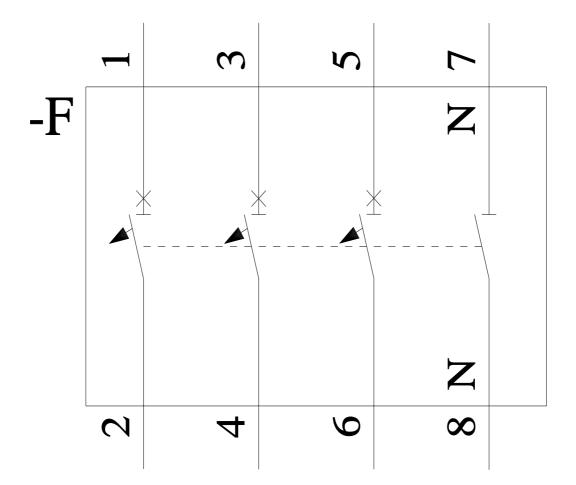
CAx-Online-Generator

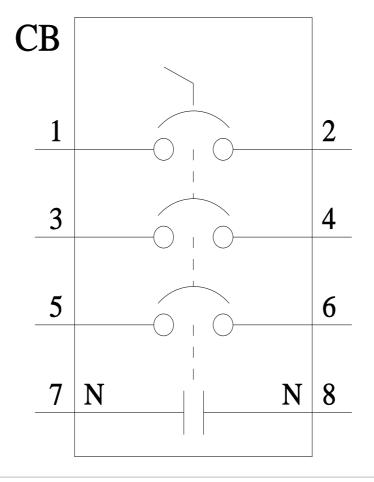
http://www.siemens.com/cax

Tender specifications









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