SIEMENS

Data sheet 5SY4625-7



Miniature circuit breaker 400 V 10kA, 3+N-pole, C, 25A, D=70 mm

product brand name product designation Miniature circuit breaker Ceneral technical data number of poles 4 design of pole 3P+N tripping characteristic class C mechanical service life (operating cycles) typical 10 000 overvoltage category III degree of pollution 3 Voitage Type of voltage of the operating voltage Voitage Uppe of voltage of the operating voltage Vinsulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 440 V • with single-phase operation at AC rated value 440 V supply voltage with single-phase operation at AC rated value 230 V operational current • at 40 °C rated value 22.55 A at 55 °C rated value 22.55 A at 56 °C rated value 21.2 A at 56 °C rated value 25.A Supply voltage at 60 °C rated value 25.A Supply voltage at AC rated value 400 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 Breaking Capacity switching capacity current • at DC according to IEC 60947-2 rated value 15 kA according to IEC 60947-2 rated value 20 kA energy limitation class IO according to IEC 60947-2 rated value 20 kA energy limitation class IV of rated value of the current at AC in hot operating state per pole Dower loss [W] for rated value of the current at AC in hot operating state per pole	Model	
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tripping characteristic class mechanical service life (operating cycles) typical overvoltage category degree of pollution 3 Voltage type of voltage of the operating voltage with single-phase operation at AC rated value with multi-phase operation at AC rated value with single-phase operation at AC rated value with single-phase operation at AC rated value authorized with single-phase operation at AC rated value authorized with single-phase operation at AC rated value 230 V operational current at 40 °C rated value 23.8 A at 55 °C rated value 21.8 A at 60 °C rated value 21.2 A at 60 °C rated value 25.5 A Supply voltage at AC rated value 25. A Supply voltage at AC rated value 400 V at AC rated value 30 V operating voltage at DC rated value 60 V value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Breaking Capacity switching capacity current at DC according to EC 60947-2 rated value a coording t	·	
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type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value 230 V operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 65 °C rated value • at 60 °C rated value • at AC rated value • at Crated value		3
insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value • at 40 °C rated value • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at AC rated value • at C rated value • at D rated value •	Voltage	
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supply voltage with single-phase operation at AC rated value operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value • at 60 °C rated value • at AC rated value • at C rated value • at DC rated value • at DC rated value • at DC rated value maximum 72 V Protection class protection class IP Breaking Capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value	 with single-phase operation at AC rated value 	440 V
operational current • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at AC rated value • at AC rated value • at AC rated value • at AC rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at C rated value • at DC rated value maximum 72 V Protection class protection class IP Breaking Capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to IEC 60947-2 rated value	with multi-phase operation at AC rated value	440 V
at 40 °C rated value at 50 °C rated value 22.55 A at 55 °C rated value 21.88 A at 60 °C rated value 21.2 A at AC rated value 25 A Supply voltage supply voltage at AC rated value 400 V at AC rated value 60 V value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Breaking Capacity switching capacity current at AC according to IEC 60947-2 rated value 15 kA according to IEC 60947-2 rated value 20 kA energy limitation class power loss [W] for rated value of the current at AC in hot operating state per pole 22.2 W	supply voltage with single-phase operation at AC rated value	230 V
at 50 °C rated value at 55 °C rated value 21.88 A at 60 °C rated value 21.2 A at AC rated value 25 A Supply voltage supply voltage at AC rated value 400 V at DC rated value 60 V value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Breaking Capacity switching capacity current at DC according to IEC 60947-2 rated value according to EN 60898 rated value according to IEC 60947-2 rated value 20 kA energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole	operational current	
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at AC rated value at AC rated value 25 A Supply voltage supply voltage at AC rated value at AC val	 at 50 °C rated value 	22.55 A
* at AC rated value 25 A Supply voltage supply voltage * at AC rated value 400 V * at DC rated value 60 V value range of the supply voltage frequency 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 EN 60898 rated value 10 kA * according 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	 at 55 °C rated value 	21.88 A
supply voltage • at AC rated value	 at 60 °C rated value 	21.2 A
supply voltage • at AC rated value • at DC rated value 60 V value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Breaking Capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value 20 kA energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole	at AC rated value	25 A
 at AC rated value 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 according to EN 60898 rated value according to IEC 60947-2 rated value according to	Supply voltage	
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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 • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 9 according to IEC 60947-2 rated value 20 kA energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole	at DC rated value	60 V
Protection class protection class IP IP20, with connected conductors Breaking Capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according 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	value range of the supply voltage frequency	50/60 Hz
protection class IP Breaking Capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according 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	operating voltage at DC rated value maximum	72 V
switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according 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	Protection class	
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according to EN 60898 rated value according to IEC 60947-2 rated value energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 10 kA 20 kA 22 kA 22 W	at DC according to IEC 60947-2 rated value	15 kA
according to IEC 60947-2 rated value energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 20 kA 2 20 kA 2 20 kA 2 20 kA		10 kA
energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 2.2 W	according to IEC 60947-2 rated value	20 kA
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 2.2 W		3
power loss [W] for rated value of the current at AC in hot operating state per pole 2.2 W		
	power loss [W] for rated value of the current at AC in hot	2.2 W
Product details	Product details	

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	8
reference value setting current (Ii) 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	
connectable conductor cross-section solid	
minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section stranded	00 11111
	0.75 mm ²
• minimum	
maximum connectable conductor cross section finely stranded with core	35 mm²
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 section	20 11111
minimum	18
• maximum	4
	7
tightening torque [lbf-in] with screw-type terminals • minimum	22 lbf·in
• maximum	31 lbf·in
	31 101 111
tightening torque with screw-type terminals	0.5 N
• 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	Quick assembly system
mounting position	any
net weight	622 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
standard	IEC / EN 60898-1, 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	
• minimum	-40 °C
• maximum	70 °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	





Confirmation







General Product Approval

EMV

Test Certificates



Miscellaneous



Miscellaneous



Special Test Certificate

Test Certificates

Marine / Shipping

Miscellaneous











other

Railway

Environment

Miscellaneous

Confirmation

Confirmation

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=5SY4625-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4625-7

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

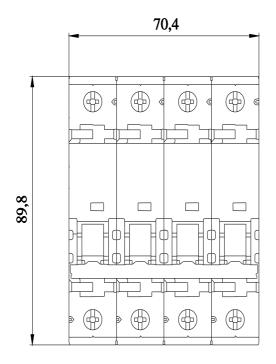
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4625-7

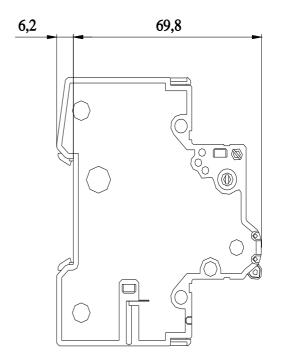
CAx-Online-Generator

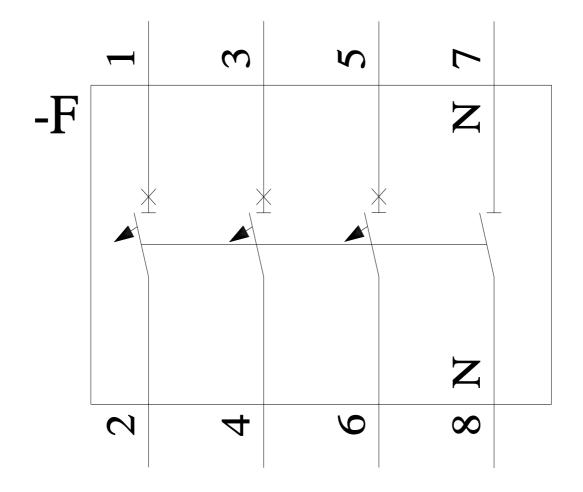
http://www.siemens.com/cax

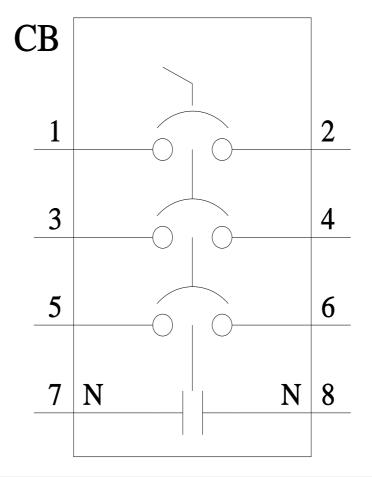
Tender specifications

http://www.siemens.com/specifications









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