SIEMENS

Data sheet

5SY4640-6



Miniature circuit breaker 400 V 10kA, 3+N-pole, B, 40A, D=70 mm

Model	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	В				
mechanical service life (operating cycles) typical	10 000				
overvoltage category	Ш				
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				
Supply voltage					
supply voltage					
 at AC rated value 	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				
Switching 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 	15 kA				
energy limitation class	3				
Dissipation					
power loss [W] for rated value of the current at AC in hot operating state per pole	3.6 W				
suitability for operation	Mechanical engineering / industry				
Product details					
product component					
 combined terminal top 	Yes				
 combined terminal bottom 	Yes				
 neutral conductor switching 	Yes				
product feature					

e minimum e maximum number of test cycles for environmental testing according to IEC 60068-2-30 General Product Approval Confirmation General Product Approval EMC	-40 °C 75 °C 6 Miscellaneous UR VDE Test Certificates			
minimum maximum number of test cycles for environmental testing according to IEC 60068-2-30 General Product Approval	75 °C 6			
minimum maximum number of test cycles for environmental testing according to IEC 60068-2-30 General Product Approval	75 °C 6			
minimum maximum number of test cycles for environmental testing according to IEC 60068-2-30	75 °C			
minimum maximum number of test cycles for environmental testing according to IEC	75 °C			
• minimum • maximum	75 °C			
• minimum				
ambient temperature damig storage				
ambient temperature during storage				
• maximum	70 °C			
• minimum	-40 °C			
ambient temperature during operation				
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz			
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077			
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C			
Environmental conditions				
net weight	616 g			
mounting position	Quick assembly system any			
number of modular width units fastening method	4 Ouick assembly system			
installation depth number of modular width units	70 mm			
depth	76 mm			
width	72 mm			
height	90 mm			
Mechanical Design				
position of power supply cord	Any			
• maximum	3.5 N·m			
● minimum	2.5 N·m			
tightening torque with screw-type terminals				
• maximum	31 lbf·in			
• minimum	22 lbf·in			
tightening torque [lbf·in] with screw-type terminals				
• maximum	4			
• minimum	18			
AWG number as coded connectable conductor cross section				
• maximum	25 mm ²			
• minimum	0.75 mm²			
connectable conductor cross-section finely stranded with core end processing				
• maximum	35 mm²			
● minimum	0.75 mm²			
connectable conductor cross-section stranded				
• maximum	35 mm²			
• minimum	0.75 mm²			
connectable conductor cross-section solid				
Connections				
• at AC according to UL 1077 and CSA C22.2 No.235	5 kA			
short-circuit current breaking capacity (Icn)				
Short circuit				
product extension installable supplementary devices	Yes			
• sealable • silicon-free	Yes			
halogen-free	Yes			
60204-1				
 properties for main switches in accordance with EN 	Yes			

EHC	<u>Miscellaneous</u>	RCM	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>
Test Certificates	Marine / Shipping				
<u>Miscellaneous</u>	ABS	B U REAU VERITAS	Hoyd's Register uis	RINA	DINV-GL.
other		Railway		Environment	
<u>Miscellaneous</u>	<u>Confirmation</u>	Vibration and Shock	<u>Confirmation</u>	Environmental Con- firmations	
	t to exit the Russian mai	rket (see here). e/siemens-wind-down-russia	an-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=5SY4640-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4640-6

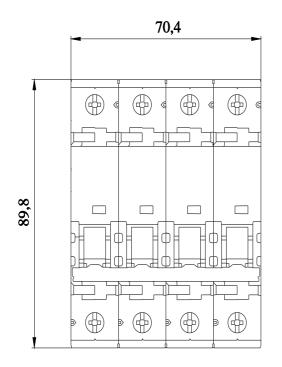
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4640-6

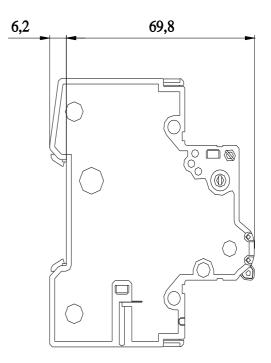
CAx-Online-Generator

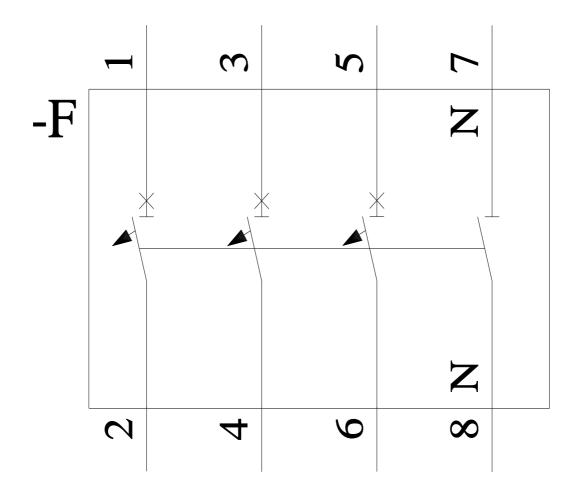
http://www.siemens.com/cax

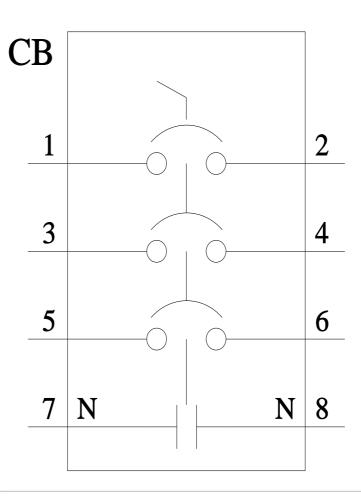
Tender specifications

http://www.siemens.com/specifications









last modified:

2/7/2023 🖸

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