

Siemens
EcoTech



miniature circuit breaker 230 V, 6 kA, 1+N-pole/1 MW, B40



Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	Miniature circuit breaker compact
General technical data	
design of pole	1P+N
tripping characteristic class	B
mechanical service life (operating cycles) typical	4 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) at AC rated value	250 V
<ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value ● operational current at AC rated value 	40 A 38.08 A 36.05 A 34.99 A 33.9 A 40 A
Supply voltage	
supply voltage <ul style="list-style-type: none"> ● at AC ● at DC rated value 	230 V 60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage <ul style="list-style-type: none"> ● minimum ● with single-phase operation at AC maximum 	24 V 250 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current <ul style="list-style-type: none"> ● according to EN 60898 rated value 	6 kA
energy limitation class	3
Dissipation	

power loss [W] for rated value of the current • at AC in hot operating state per pole	4 W
Suitability	
suitability for operation	Residential buildings/infrastructure
Product details	
product feature touch protection	Yes
product component • combined terminal top • combined terminal bottom • neutral conductor switching	No No Yes
product feature properties for main switches in accordance with EN 60204-1	No
product feature halogen-free	Yes
product feature sealable	Yes
product feature silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	
product function • communication function • other measurement function	No No
Connections	
connectable conductor cross-section solid • minimum • maximum	0.75 mm ² 16 mm ²
connectable conductor cross-section stranded • minimum • maximum	0.75 mm ² 16 mm ²
connectable conductor cross-section finely stranded with core end processing • minimum • maximum	0.75 mm ² 10 mm ²
tightening torque [lbf-in] with screw-type terminals • minimum • maximum	10.6 lbf-in 22.1 lbf-in
tightening torque with screw-type terminals • minimum • maximum	1.2 N·m 2.5 N·m
position of power supply cord	Any
Mechanical Design	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	DIN rail
mounting position	any
Net Weight	149 g
Environmental conditions	
standard	IEC/EN60898-1, GB/T10963.1
vibration resistance according to IEC 60068-2-6	Yes
ambient temperature during operation • minimum • maximum	-25 °C 60 °C
ambient temperature during operation	-25...45°C: max. 85%rF. 45...60°C: max. 43%rF
ambient temperature during storage • minimum • maximum	-40 °C 75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6

Approvals Certificates

Environment	General Product Approval
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[Environmental Confirmations](#)

[Environmental Confirmations](#)



CCC

General Product Approval

[Confirmation](#)



EG-Konf.



IMQ



VDE



General Product Approval

Maritime application

other



KEMA



DNV



[Miscellaneous](#)

[Confirmation](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6040-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6040-6>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6040-6

CAX-Online-Generator

<https://www.siemens.com/cax>

Tender specifications

<https://www.siemens.com/specifications>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



