

MCB Retail line 1p 6kA 40A B Characteristic

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	B
mechanical service life (operating cycles) at AC typical	10 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
type of voltage	Use only in alternating current or direct current circuits. Mixed use is not permitted.
insulation voltage (Ui)	
<ul style="list-style-type: none"> with single-phase operation at AC rated value with multi-phase operation at AC rated value 	250 V 440 V
<ul style="list-style-type: none"> operational current <ul style="list-style-type: none"> — at 30 °C rated value operational current at AC rated value 	40 A 40 A
Supply voltage	
value range of the supply voltage frequency	50/60 Hz
operating voltage	
<ul style="list-style-type: none"> with multi-phase operation at AC maximum 	440 V
value range of the supply voltage at AC	240/415 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
suitability for operation	retail line
Product details	
product feature touch protection	No
product component neutral conductor switching	No
product feature halogen-free	Yes
product feature sealable	Yes
product feature silicon-free	Yes
product extension installable supplementary devices	Yes
Connections	
connectable conductor cross-section solid	
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ² 25 mm ²
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ² 25 mm ²
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ² 25 mm ²

tightening torque with screw-type terminals		
• minimum	2.5 N·m	
• maximum	3 N·m	
Mechanical Design		
height	90 mm	
width	18 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	1	
mounting position	any	
Net Weight	117 g	
Environmental conditions		
vibration resistance according to IEC 60068-2-6	no	
ambient temperature during operation		
• minimum	-25 °C	
• maximum	45 °C	
ambient temperature during storage		
• minimum	-40 °C	
• maximum	75 °C	
Approvals Certificates		
Environment	General Product Approval	other

[Environmental Confirmations](#)



[Confirmation](#)

[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=5SJ6140-6RC>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/5SJ6140-6RC>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ6140-6RC
- 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=)

last modified: 9/12/2025

