

Siemens  
EcoTech



RCBO compact 1 MW 1-pole+N 6 kA type F 30 mA B16 super-resistant K



Figure similar

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Super resistant K
General technical data	
number of poles	2
number of poles with protection	1
design of pole	1P+N
tripping characteristic class	B
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (U <sub>i</sub> ) rated value	253 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) μs	3 kA
tripping fault current rated value	30 mA
<ul style="list-style-type: none"> <li>● operational current</li> <li>— at 30 °C rated value</li> <li>— at 40 °C rated value</li> <li>— at 45 °C rated value</li> <li>— at 50 °C rated value</li> <li>— at 55 °C rated value</li> <li>— at 60 °C rated value</li> <li>— at 65 °C rated value</li> <li>— at 70 °C rated value</li> <li>● operational current at AC rated value</li> </ul>	16 A 15.2 A 14.88 A 14.4 A 14.08 A 13.6 A 13.28 A 12.8 A 16 A
residual current type	F
Supply voltage	
supply voltage	
<ul style="list-style-type: none"> <li>● at AC rated value</li> <li>● for testing equipment minimum</li> </ul>	230 V 195 V
operating frequency	50/60 Hz

supply voltage frequency rated value	50 Hz
<b>Protection class</b>	
<b>protection class IP</b>	IP20, if the distribution board is installed, with connected conductors
<b>Breaking Capacity</b>	
<b>switching capacity current</b>	
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 rated value	15 kA
<b>short-circuit current breaking capacity (I<sub>cn</sub>) according to EN 61009-1 rated value</b>	6 kA
<b>rated residual switching capacity (I<sub>Δm</sub>) according to IEC 61009-1</b>	4.5 kA
<b>energy limitation class</b>	3
<b>Dissipation</b>	
<b>power loss [W]</b>	
• maximum	3.7 W
<b>Product details</b>	
<b>product feature touch protection</b>	Yes
product component neutral conductor switching	Yes
<b>product feature halogen-free</b>	Yes
<b>product feature silicon-free</b>	Yes
<b>Connections</b>	
<b>connectable conductor cross-section solid</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	10 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	1.2 N·m
• maximum	2 N·m
<b>position of power supply cord</b>	Either top or bottom
<b>Mechanical Design</b>	
<b>height</b>	90 mm
<b>width</b>	18 mm
<b>depth</b>	77 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	1
<b>mounting position</b>	any
<b>Net Weight</b>	130 g
<b>Environmental conditions</b>	
<b>influence of the surrounding temperature</b>	Max. 95% humidity
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	45 °C
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
<b>number of test cycles for environmental testing according to IEC 60068-2-30</b>	28
<b>Approvals Certificates</b>	
<b>Environment</b>	<b>General Product Approval</b>

[Environmental Confirmations](#)



[Environmental Confirmations](#)



General Product Approval	Test Certificates
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[Confirmation](#)



[Special Test Certificate](#)

[Miscellaneous](#)

other	Dangerous goods
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[Miscellaneous](#)



[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

Further information
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**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=5SV1316-3KK16>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1316-3KK16>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV1316-3KK16](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1316-3KK16)

**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=)





