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Data sheet 5SV1316-6LK16



RCBO compact 1P+N 6 kA type A(G) 30 mA B16

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Short-time delayed G, super resistant K
General technical data	
number of poles	2
number of poles / with protection	1
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage / of the operating voltage	AC
insulation voltage (Ui) / rated value	253 V
surge voltage resistance / rated value	4 000 V
surge current resistance / at (8/20) µs	3 kA
Supply voltage	
supply voltage	
● at AC / rated value	230 V
● for testing equipment / minimum	195 V
operating frequency	50/60 Hz
supply voltage frequency / rated value	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Switching capacity	
breaking capacity short-circuit current (Icn) / according to EN 61009-1 / rated value	6 kA
switching capacity current	
● according to EN 60898 / rated value	6 kA
● according to IEC 60947-2 / rated value	15 kA
rated residual switching capacity (IΔm) / according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
● for rated value of the current / at AC / in hot operating state / per pole	1.85 W
● maximum	3.7 W
Current	

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tripping fault current / rated value	30 mA
operational current	
● at 30 °C / rated value	16 A
● at 40 °C / rated value	15.2 A
● at 45 °C / rated value	14.88 A
● at 50 °C / rated value	14.4 A
● at 55 °C / rated value	14.08 A
● at 60 °C / rated value	13.6 A
● at 65 °C / rated value	13.28 A
● at 70 °C / rated value	12.8 A
● at AC / rated value	16 A
residual current type	A
Product details	
product component / neutral conductor switching	Yes
product feature / touch protection	Yes
product feature	
● halogen-free	Yes
● silicon-free	Yes
Connections	
connectable conductor cross-section / solid	
● minimum	0.75 mm²
● maximum	16 mm²
connectable conductor cross-section / stranded	
● minimum	0.75 mm²
● maximum	16 mm²
connectable conductor cross-section / finely stranded / with core end processing	
● minimum	0.75 mm²
● maximum	10 mm²
tightening torque / with screw-type terminals	
● minimum	1.2 N·m
● maximum	2 N·m
position / of power supply cord	Either top or bottom
Mechanical Design	
height	90 mm
width	18 mm
depth	77 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
net weight	117 g
weight / with packaging	133 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% humidity
ambient temperature / during operation	
● minimum	-25 °C
● maximum	45 °C
ambient temperature / during storage	
● minimum	-40 °C
● maximum	75 °C
number of test cycles / for environmental testing / according to IEC 60068-2-30	28
Certificates	
reference code	
● according to EN 61346-2	F
● according to IEC 81346-2	F

General Product Approval	Declaration of Conformity	Test Certificates

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Confirmation				Miscellaneous	Special Test Certific-ate

other			Dangerous Good
Confirmation	Miscellaneous	Miscellaneous	Transport Informa-tion

Further information

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=5SV1316-6LK16
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV1316-6LK16
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1316-6LK16
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications

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