



Miniature Circuit Breaker 20A 4-pole Z characteristic 10kA

Model	
product brand name	Betagard
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	4P
tripping characteristic class	Z
mechanical service life (operating cycles)	
• typical	8 500
overvoltage category	III
degree of pollution	3
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.
<b>insulation voltage (Ui)</b>	
• with single-phase operation at AC rated value	440 V
• with multi-phase operation at AC rated value	440 V
operational current	
• at 30 °C rated value	22.4 A
• at 40 °C rated value	21.2 A
• at 50 °C rated value	20 A
• at 55 °C rated value	19.4 A
• at 60 °C rated value	18.7 A
• at AC rated value	20 A
Supply voltage	
supply voltage at AC	415 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• with multi-phase operation at AC maximum	440 V
• at DC rated value maximum	62.5 V
•	The operational voltage 62,5V DC/pole takes into account a battery charging voltage with peak value of 72V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	10 kA
energy limitation class	NA

Product details			
product feature touch protection	Yes		
product component neutral conductor switching	No		
product feature <ul style="list-style-type: none"><li>halogen-free</li><li>sealable</li><li>silicon-free</li></ul>	Yes Yes Yes		
product extension installable supplementary devices	Yes		
Connections			
connectable conductor cross-section solid <ul style="list-style-type: none"><li>minimum</li><li>maximum</li></ul>	0.75 mm² 25 mm²		
connectable conductor cross-section stranded <ul style="list-style-type: none"><li>minimum</li><li>maximum</li></ul>	0.75 mm² 25 mm²		
connectable conductor cross-section finely stranded with core end processing <ul style="list-style-type: none"><li>minimum</li><li>maximum</li></ul>	0.75 mm² 25 mm²		
tightening torque with screw-type terminals <ul style="list-style-type: none"><li>minimum</li><li>maximum</li></ul>	2.5 N·m 3 N·m		
Mechanical Design			
height	90 mm		
width	72 mm		
depth	76 mm		
installation depth	70 mm		
number of modular width units	4		
mounting position	any		
net weight	522 g		
Environmental conditions			
vibration resistance according to IEC 60068-2-6	50 m/s² at 25 to 150 Hz		
ambient temperature during storage <ul style="list-style-type: none"><li>minimum</li><li>maximum</li></ul>	-40 °C 75 °C		
Approvals Certificates			
General Product Approval	Test Certificates	other	Environment

[Confirmation](#)



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firmations](#)

## Environment

[Environmental Con-  
firmations](#)

## Further information

### 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=5SL4420-0RC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL4420-0RC>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL4420-0RC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4420-0RC)

### CAX-Online-Generator

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





