

Miniature circuit breaker 240/415 V 1-pole 15 kA D 20

Model	
product brand name	Betagard
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	D
overvoltage category	III
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.
<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
<b>operational current</b>	
• at 30 °C rated value	20 A
• at 40 °C rated value	19 A
• at 50 °C rated value	18 A
• at 55 °C rated value	17.6 A
• at 60 °C rated value	17.2 A
• at AC rated value	20 A
Supply voltage	
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• 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	
• according to EN 60898 rated value	15 kA
• according to IEC 60947-2 rated value	15 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.8 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
product component neutral conductor switching	No
<b>product feature</b>	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>

connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
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	149.5 g

#### Environmental conditions

vibration resistance according to IEC 60068-2-6	yes
ambient temperature during operation	
• minimum	-40 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C

#### Approvals Certificates

General Product Approval	Test Certificates	other
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[Miscellaneous](#)

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other	Environment
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[Miscellaneous](#)

[Environmental Con-  
firmations](#)

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#### 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=5SL7120-8RC>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SL7120-8RC>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL7120-8RC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL7120-8RC)  
 CAx-Online-Generator  
<http://www.siemens.com/cax>  
 Tender specifications  
<http://www.siemens.com/specifications>

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