

Miniature Circuit Breaker 40A 1-pole K characteristic 15kA

Model	
product brand name	Betagard
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	K
mechanical service life (operating cycles)	
• typical	8 500
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
<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	43.6 A
• at 40 °C rated value	41.8 A
• at 50 °C rated value	40 A
• at 55 °C rated value	39.1 A
• at 60 °C rated value	38.1 A
• at AC rated value	40 A
Supply voltage	
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	72 V
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	
<b>product feature</b>	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	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

#### Environmental conditions

vibration resistance according to IEC 60068-2-6	50 m/s <sup>2</sup> at 25 to 150 Hz
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C

#### Approvals Certificates

General Product Approval	Test Certificates	other
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EG-Konf.

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[Miscellaneous](#)

other	Environment
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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=5SL7140-3RC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL7140-3RC>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL7140-3RC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL7140-3RC)

##### CAX-Online-Generator

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

##### Tender specifications

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

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