

CIRCUIT-BREAKER, SIZE S3,  
FOR THE PLANT PROTECTION,  
WITH APPROBATION CIRC.-BREAKER UL 489,  
CSA C22.2 NO.5-02, A-TRIGGER 60 A,  
N-TRIGGER 780 A, SCREW CONNECTION,  
STANDARD SWITCHING CAPACITY

## General technical data:

<b>product brand name</b>		SIRIUS
<b>product designation</b>		circuit breaker
<b>Size of the circuit-breaker</b>		S3
<b>Number of poles / for main current circuit</b>		3
<b>Product function</b>		
• removable terminal for auxiliary and control circuit		No
• overload protection		Yes
• phase disturbance recognition		No
• short-circuit to earth recognition		No
<b>Product component</b>		
• auxiliary switch		No
• undervoltage release mechanism		No
• trip indicator		No
<b>Product extension</b>		
• auxiliary switch		Yes
• optional / motor drive		No
<b>Impulse voltage resistance / rated value</b>	V	6,000
<b>Protection class IP / on the front</b>		IP20
<b>Protection against electrical shock</b>		finger-safe
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Resistance against shock</b>		25g / 11 ms
<b>Ambient temperature</b>		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +70
<b>Active power loss / total / typical</b>	W	21

## Main circuit:

<b>Operating voltage / rated value</b>	V	690
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<b>type of voltage</b>		AC/DC
<b>Operational current / at AC-3 / at 400 V / rated value</b>	A	60
<b>Mechanical operating cycles as operating time / of the main contacts / typical</b>		50,000
<b>Frequency of operation / at AC-3 / according to IEC 60947-6-2</b>	1/h	15

#### Auxiliary circuit:

**Number of change-over switches / for auxiliary contacts**

0

#### Protection function:

**Adjustable response current / of the current-dependent overload release**

A 60 ... 60

**Breaking capacity limit short-circuit current (I<sub>cu</sub>)**

- at 400 V / rated value

kA 100

- at 480 AC Y/277 V / according to UL 489 / rated value

kA 65

#### Installation/mounting/dimensions:

**Type of mounting**

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

**mounting position**

any

**Depth**

mm 174

**Height**

mm 168

**Width**

mm 70

#### Connections:

**Arrangement of electrical connectors / for main current circuit**

front side

**Design of the electrical connection**

- for main current circuit

screw-type terminals with box terminals

- for auxiliary and control current circuit

screw-type terminals

**Type of the connectable conductor cross-section**

- for main contacts

- solid

2x (2.5 ... 16 mm<sup>2</sup>)

- finely stranded

- with conductor end processing

2x (2.5 ... 35 mm<sup>2</sup>), 2.5 ... 50 mm<sup>2</sup>

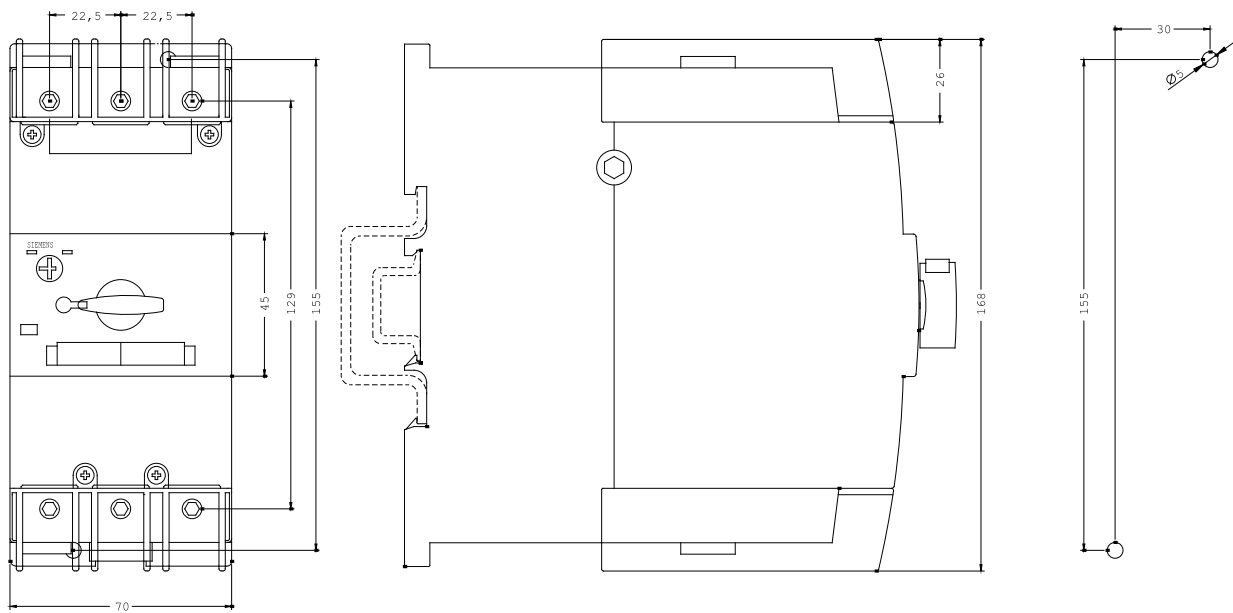
- stranded

2x (10 ... 50 mm<sup>2</sup>), 10 ... 70 mm<sup>2</sup>

- for AWG conductors / for main contacts

2x (10 ... 1), 1x (10 ... 2)

#### Certificates/approvals:

**General Product Approval****Test Certificates**[Special Test Certificate](#)**Shipping Approval****other**[Confirmation](#)[Declaration of Conformity](#)[other](#)[Environmental Confirmations](#)**Further information:****Information- and Downloadcenter (Catalogs, Brochures,...)**<http://www.siemens.com/industrial-controls/catalogs>**Industry Mall (Online ordering system)**<http://www.siemens.com/industrial-controls/mall>**Cax online generator:**<http://www.siemens.com/cax>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3RV1742-5LD10/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV1742-5LD10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1742-5LD10)**last change:**

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