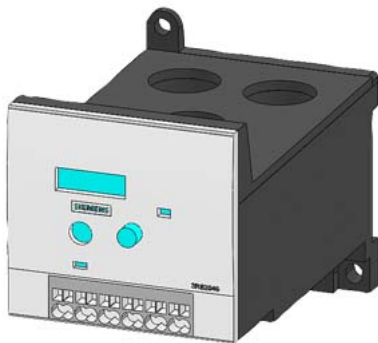




Overload relay 25...100 A For motor protection Size S3, Class 20 Stand-alone installation Main circuit: straight-through transformer Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset !!! Phased-out product !!! Successor is SIRIUS 3RB3 Preferred successor type is >>3RB3046-2XX1<<

product brand name

SIRIUS

product designation

solid-state overload relay

General technical data

size of contactor can be combined company-specific
power loss [W] for rated value of the current at AC in hot operating state

S3

0.05 W

- per pole

0.02 W

insulation voltage with degree of pollution 3 at AC rated value

1 000 V

surge voltage resistance rated value

8 kV

shock resistance

15g / 11 ms

type of protection

PTB 06 ATEX 3001 Ex II (2) GD

reference code according to IEC 81346-2

F

Substance Prohibition (Date)

07/01/2006

Ambient conditions

installation altitude at height above sea level maximum

2 000 m

ambient temperature

- during operation
- during storage
- during transport

-25 ... +60 °C

-40 ... +80 °C

-40 ... +80 °C

relative humidity during operation

100 %

Main circuit

number of poles for main current circuit

3

adjustable current response value current of the current-dependent overload release

25 ... 100 A

Auxiliary circuit

number of NC contacts for auxiliary contacts

1

number of NO contacts for auxiliary contacts

1

number of CO contacts for auxiliary contacts

0

operational current of auxiliary contacts at AC-15

- at 24 V
- at 110 V
- at 120 V
- at 125 V
- at 230 V

4 A

4 A

4 A

4 A

3 A

operational current of auxiliary contacts at DC-13

- at 24 V
- at 60 V
- at 110 V
- at 125 V
- at 220 V

2 A

0.55 A

0.3 A

0.3 A

0.11 A

Protective and monitoring functions	
trip class	CLASS 20E
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	106 mm
width	70 mm
depth	124 mm
required spacing - with side-by-side mounting - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 0 mm - for grounded parts - forwards 0 mm - backwards 0 mm - upwards 0 mm - at the side 6 mm - downwards 0 mm - for live parts - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 6 mm	
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection - for main current circuit - for auxiliary and control circuit	straight-through transformers spring-loaded terminals
type of connectable conductor cross-sections - for auxiliary contacts - solid 2x (0.25 ... 1.5 mm²) - finely stranded with core end processing 2x (0.25 ... 1.5 mm²) - at AWG cables for auxiliary contacts 2x (24 ... 16)	
Electromagnetic compatibility	
conducted interference - due to burst according to IEC 61000-4-4 - due to conductor-earth surge according to IEC 61000-4-5 - due to conductor-conductor surge according to IEC 61000-4-5	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 2 kV (line to earth) corresponds to degree of severity 3 1 kV (line to line) corresponds to degree of severity 3
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Certificates/ approvals	
General Product Approval	EMC



[Confirmation](#)



For use in hazard-
ous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping

other



[Confirmation](#)

[Miscellaneous](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB2046-2EX1>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2046-2EX1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2046-2EX1>

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

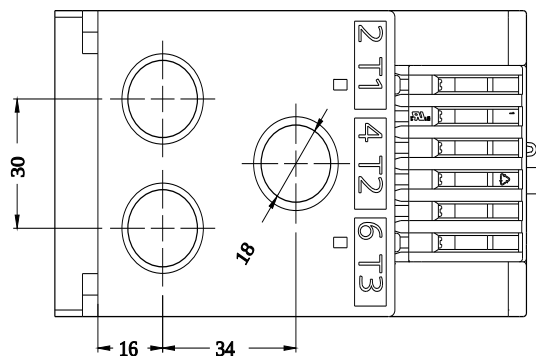
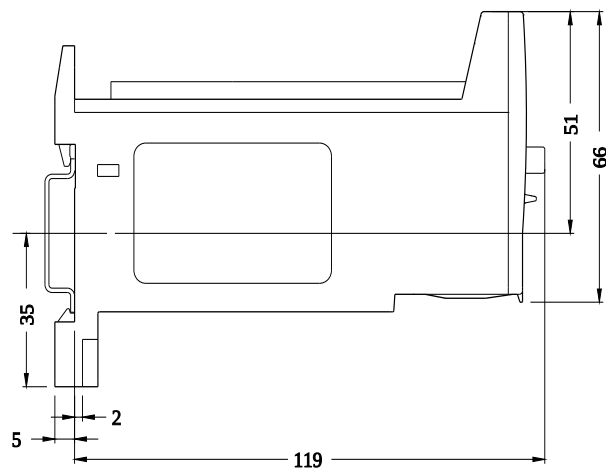
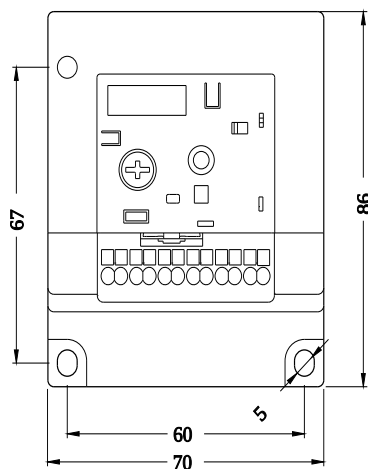
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2046-2EX1&lang=en

Characteristic: Tripping characteristics, I^2t , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2046-2EX1/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2046-2EX1&objecttype=14&gridview=view1>



last modified:

2/5/2021

