



Overload relay 18...25 A For motor protection Size S3, Class 10 Contactor mounting Main circuit: Screw terminal Auxiliary circuit: Screw terminal Manual-Automatic-Reset !!! Phased-out product !!! Successor is SIRIUS 3RU2 Preferred successor type is >>3RU2136-4DB0<<

product brand name

SIRIUS

product designation

thermal overload relay

General technical data

size of overload relay

S3

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

S3

12 W

- per pole

4 W

insulation voltage with degree of pollution 3 at AC rated value

1 000 V

surge voltage resistance rated value

8 kV

protection class IP on the front

IP20

shock resistance

8g / 10 ms

type of protection

DMT 98 ATEX G 001

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

-20 ... +70 °C

-55 ... +80 °C

-55 ... +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

18 ... 25 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
- at 400 V

3 A

3 A

3 A

3 A

2 A

1 A

operational current of auxiliary contacts at DC-13

- at 24 V
- at 110 V
- at 125 V

1 A

0.22 A

0.22 A

• at 220 V	0.11 A
Protective and monitoring functions	
trip class	CLASS 10
Short-circuit protection	
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	gG: 160 A gG: 63 A fuse gL/gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
fastening method	Contactormounting
height	120 mm
width	70 mm
depth	140 mm
required spacing	
• with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — at the side	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 6 mm 0 mm 0 mm 0 mm 0 mm 0 mm 6 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
• for main current circuit • for auxiliary and control circuit	screw-type terminals screw-type terminals
type of connectable conductor cross-sections	
• for main contacts — solid — stranded — finely stranded with core end processing • at AWG cables for main contacts	2x (2.5 ... 16 mm ²) 2x (10 ... 50 mm ²), 10 ... 70 mm ² 2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ² 2x (10 ... 1/0), 1x (10 ... 2/0)
type of connectable conductor cross-sections	
• for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14)
Safety related data	
touch protection against electrical shock	finger-safe
Certificates/ approvals	
General Product Approval	For use in hazardous locations



[Confirmation](#)



IECEX

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



ATEX



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



LRS

Marine / Shipping

other

Railway



[Confirmation](#)

[Miscellaneous](#)

[Special Test Certificate](#)

Further information

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=3RU1146-4DB0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1146-4DB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1146-4DB0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1146-4DB0&lang=en

Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1146-4DB0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU1146-4DB0&objecttype=14&gridview=view1>



