SIEMENS

3RF2230-2AC45 **Data sheet**



Semiconductor relay, 3-phase 3RF2 30 A / 40 °C 48-600 V / 4-30 V DC 3phase controlled Spring-type terminal Blocking voltage 1200 V

product brand name product designation design of the product product type designation manufacturer's article number

- _2 of the accessories that can be ordered product designation
 - _2 of the accessories that can be ordered

SIRIUS

solid-state relay

three-phase controlled

3RF22

3RF2900-0EA18

converter

General technical data

product function power loss [W] for rated value of the current

- at AC in hot operating state
- at AC in hot operating state per pole
- without load current share typical

insulation voltage rated value

type of voltage of the control supply voltage surge voltage resistance of main circuit rated value

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 reference code according to IEC 81346-2

Substance Prohibitance (Date)

zero-point switching

122 W

0.9 W

600 V

DC

6 kV

15g / 11 ms

2g

Q

07/01/2006

Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts

operating voltage at AC

- at 50 Hz rated value
- at 60 Hz rated value

operating frequency rated value

relative symmetrical tolerance of the operating frequency

operating range relative to the operating voltage at AC

- at 50 Hz
- at 60 Hz

operational current

- at AC-51 rated value
- according to UL 508 rated value

ampacity maximum

operational current minimum

rate of voltage rise at the thyristor for main contacts maximum permissible

blocking voltage at the thyristor for main contacts

122 W

3 3

0

48 ... 600 V

48 ... 600 V

50 ... 60 Hz

10 %

40 ... 660 V

40 ... 660 V

20 A

20 A

30 A

500 mA 500 V/µs

1 200 V

maximum permissible reverse current of the thyristor derating temperature surge current resistance rated value 12 value maximum 450 A*9 DC Control Circuit Control Type of voltage of the control supply voltage at DC Supply voltage at DC Control s				
derating tamperature surge current resistance rated value 12t value maximum 450 A*s Control directif Control Type of voltage of the control supply voltage control supply voltage ** all CC control current at DC rated value ON delay time ON-delay time 1 ms. additionally max. one half-wave ON-delay time Installation mounting dimensions **all chy-side mounting **steeping dimensions **steeping forcupe of fixing screw maximum tightening torque of fixing screw maximum tightening torque (pti-in) of fixing screw maximum	maximum permissible			
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• for auxiliary and control contacts 10 mm Safety related data	stripped length of the cable			
Safety related data				
-	for auxiliary and control contacts	10 mm		
protection class IP on the front according to IEC IP20	Safety related data			
	Carcty Telated data			

60529		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Ambient conditions		
installation altitude at height above sea level maximum	1 000 m	
ambient temperature		
during operation	-25 +60 °C	
 during storage 	-55 +80 °C	
Electromagnetic compatibility		
conducted interference		
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2	
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2	
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2	
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1	
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2	
conducted HF interference emissions according to CISPR11	Class A for industrial environment	
field-bound HF interference emission according to CISPR11	Class A for industrial environment	

Short-circuit protection, design of the fuse link

manufacturer's article number

- of full range R fuse link for semiconductor protection at NH design usable
- of back-up R fuse link for semiconductor protection at NH design usable
- of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable
- of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable
- of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable

manufacturer's article number of the gG fuse at NH design usable

- up to 460 V
- up to 600 V

3NE1814-0; These fuses have a smaller rated current than the semiconductor relays

3NE8003-1

3NC1025; These fuses have a smaller rated current than the semiconductor relays

3NC1430

3NC2232

3NA3803-6; These fuses have a smaller rated current than the semiconductor relays

3NA3803-6; These fuses have a smaller rated current than the semiconductor relays

Certificates/ approvals

General Product Approval EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation



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)

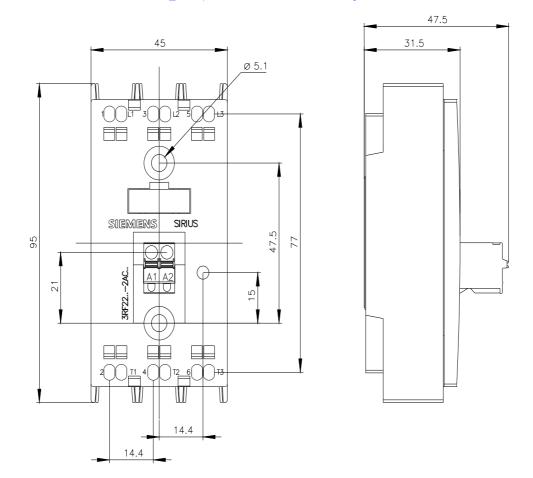
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2230-2AC45

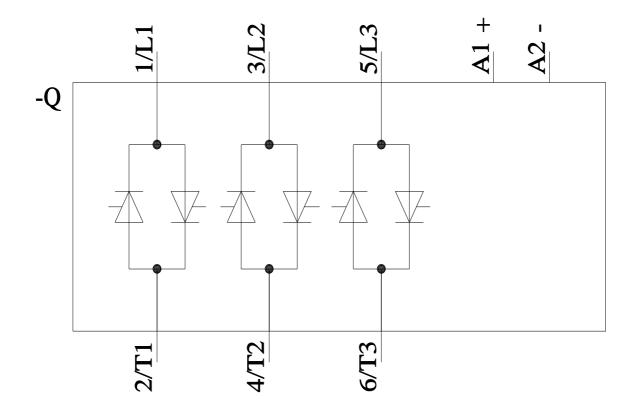
Cax online generator

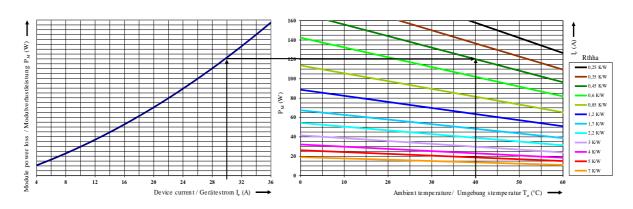
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2230-2AC45}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2230-2AC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2230-2AC45&lang=en







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