SIEMENS

Data sheet 3RF2230-2AC45



Semiconductor relay, 3-phase 3RF2 30 A / 40 $^{\circ}\text{C}$ 48-600 V / 4-30 V DC 3-phase controlled Spring-type terminal Blocking voltage 1200 V

product brand name SIRIUS product designation solid-state relay		OUD III O
design of the product product type designation 3RF22 analysecurity article number • _2 of the accessories that can be ordered product designation • _2 of the accessories that can be ordered converter Ceneral technical data product function power loss flw 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 • without load current share relysical Insulation voltage rated value 600 V type of voltage of the control supply voltage by control suggestions of main circuit rated value \$\frac{1}{2}\$\$ (\$\frac{1}{2}\$\$ (\$\frac{1}{2}\$\$ (\$\frac{1}{2}\$\$) (\$\frac{1}{2}\$\$ (\$\frac{1}{2}\$\$) (\$\frac{1}{2}\$\$ (\$\frac{1}{2}\$\$) (\$\frac{1}{2}\$\$ (\$\frac{1}{2}\$\$)	<u>'</u>	
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shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 2g reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2006 Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value volerating range relative to 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 500 mA	type of voltage of the control supply voltage	DC
vibration resistance according to IEC 60068-2-6 reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value volerating 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 500 mA	surge voltage resistance of main circuit rated value	6 kV
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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 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 • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum 500 mA	number of poles for main current circuit	3
operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating frequency rated value operating frequency rated value foliative 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 500 mA	number of NO contacts for main contacts	3
 at 50 Hz rated value at 60 Hz rated value 48 600 V operating frequency rated value 50 60 Hz relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC at 50 Hz at 60 Hz at 60 V et 60 V operational current at AC-51 rated value according to UL 508 rated value ampacity maximum operational current minimum 500 mA 	number of NC contacts for main contacts	0
 ◆ at 60 Hz rated value ✓ operating frequency rated value Felative 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 ✓ operational current minimum 	operating voltage at AC	
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 • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum 500 mA	• at 50 Hz rated value	48 600 V
relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum operational current minimum operational current minimum operational current minimum some and some a	at 60 Hz rated value	48 600 V
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■ at 50 Hz ■ at 60 Hz ■ at 60 Hz Operational current ■ at AC-51 rated value ■ according to UL 508 rated value ampacity maximum 30 A operational current minimum 500 mA	relative symmetrical tolerance of the operating frequency	10 %
● at 60 Hz operational current ● at AC-51 rated value ● according to UL 508 rated value ampacity maximum operational current minimum ampacity maximum 500 mA	operating range relative to the operating voltage at AC	
operational current	● at 50 Hz	40 660 V
 at AC-51 rated value according to UL 508 rated value ampacity maximum operational current minimum 20 A 30 A 500 mA 	• at 60 Hz	40 660 V
according to UL 508 rated value ampacity maximum 30 A operational current minimum 500 mA	operational current	
ampacity maximum 30 A operational current minimum 500 mA	• at AC-51 rated value	20 A
operational current minimum 500 mA	 according to UL 508 rated value 	20 A
	ampacity maximum	30 A
rate of voltage rise at the thyristor for main contacts 500 V/µs	operational current minimum	500 mA
	rate of voltage rise at the thyristor for main contacts	500 V/µs

maximum permissible	
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
<u> </u>	10 mA
reverse current of the thyristor derating temperature	40 °C
	300 A
surge current resistance rated value	450 A²-s
	450 A \$
Control circuit/ Control	D0
type of voltage of the control supply voltage	DC
control supply voltage 1	4 001/
• at DC	4 30 V
control supply voltage	474
at DC initial value for signal <1> detection	4 V
at DC full-scale value for signal<0> recognition	1 V
control current at minimum control supply voltage	
• at DC	22 mA
control current at DC rated value	30 mA
ON-delay time	1 ms; additionally max. one half-wave
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	screw fixing
side-by-side mounting	Yes
design of the thread of the screw for securing the equipment	M4
tightening torque of fixing screw maximum	1.5 N·m
tightening torque [lbf·in] of fixing screw maximum	13 lbf·in
height	95 mm
width	45 mm
depth	47 mm
depth Connections/ Terminals	47 mm
	47 mm
Connections/ Terminals	47 mm spring-loaded terminals
Connections/ Terminals type of electrical connection	
Connections/ Terminals type of electrical connection • for main current circuit	spring-loaded terminals
type of electrical connection of or main current circuit for auxiliary and control circuit	spring-loaded terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals
type of electrical connection of or main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts	spring-loaded terminals spring-loaded terminals
type of electrical connection	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²)
type of electrical connection	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing — finely stranded without core end processing	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for main contacts	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²)
type of electrical connection	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)
type of electrical connection	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm²
type of electrical connection	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm²
type of electrical connection	spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 0.5 2.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 1x (AWG 20 12)
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 1x (AWG 20 12)
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 1.5 mm² 1.5 mm² 1.5 2.5 mm² 1.6 2.5 mm² 1.7 (AWG 20 12) 10 14
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 1.5 mm² 1.5 mm² 1.5 2.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 1.5 mm² 1.5 2.5 mm²
type of electrical connection	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm² 1.5 mm² 1.5 2.5 mm²

 for auxiliary and control contacts 	10 mm
Safety related data	
protection class IP on the front according to IEC 60529	IP20
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 	3NE1814-0: These fuses have a smaller rated current than the semiconductor relays
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE8003-1
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	3NC1025: These fuses have a smaller rated current than the semiconductor relays
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1430
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	<u>3NC2232</u>
manufacturer's article number of the gG fuse at NH design usable	
• up to 460 V	3NA3803-6: These fuses have a smaller rated current than the semiconductor relays
• up to 600 V	3NA3803-6: These fuses have a smaller rated current than the semiconductor relays
Certificates/ approvals	

General Product Approval

EMC

Declaration of Con-



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation



Further information

Siemens has decided to exit the Russian market (see here).

<u>down-russian-business</u>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

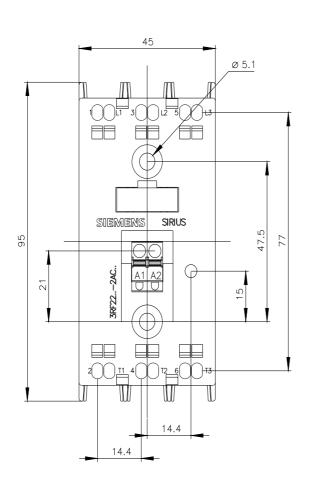
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2230-2AC45

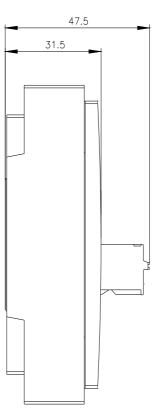
Cax online generator

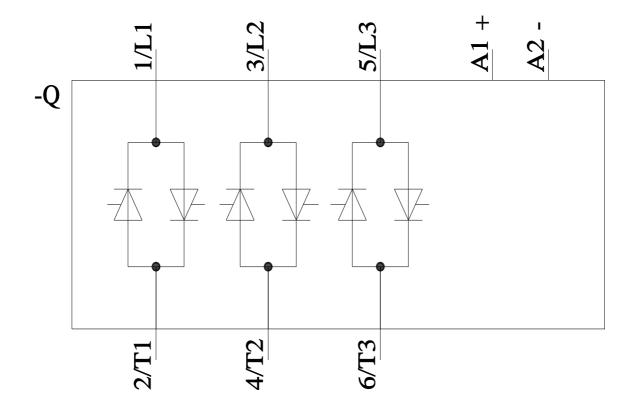
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2230-2AC45

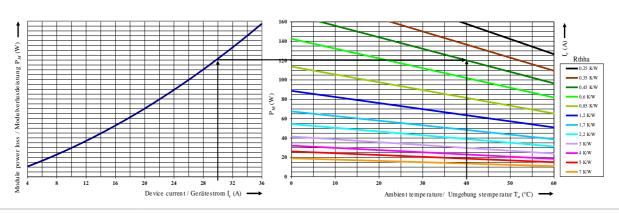
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2230-2AC45

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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