# SIEMENS

#### Data sheet

### 3RF2255-2AB45



Semiconductor relay, 3-phase 3RF2 55 A / 40  $^\circ\rm C$  48-600 V / 4-30 V DC 2-phase controlled Spring-type terminal Blocking voltage 1200 V

product brand name	SIRIUS
product designation	solid-state relay
design of the product	two-phase controlled
product type designation	3RF22
manufacturer's article number	
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
product designation	
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	converter
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	151 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	151 W
<ul> <li>without load current share typical</li> </ul>	0.5 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	DC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
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	2
number of NC contacts for main contacts	0
operating voltage at AC	
• at 50 Hz rated value	48 600 V
• at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	
• at 50 Hz	40 660 V
• at 60 Hz	40 660 V
operational current	
• at AC-51 rated value	20 A
according to UL 508 rated value	20 A
ampacity maximum	55 A
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts	100 V/µs

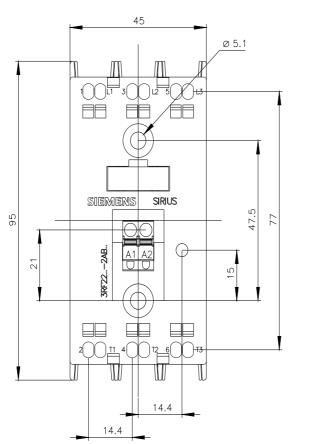
maximum permissible	
blocking voltage at the thyristor for main contacts	1 200 V
maximum permissible	
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	600 A
I2t value maximum	1 800 A <sup>2</sup> ·s
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1	
• at DC	4 30 V
control supply voltage	
• 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	00 A
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	<u>.</u>
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
height width	45 mm
width depth	
width	45 mm
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width depth Connections/ Terminals type of electrical connection • for main current circuit	45 mm 47 mm spring-loaded terminals
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width         depth         Connections/ Terminals         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         • for auxiliary and control contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary and control contacts         - solid         - finely stranded with core end processing         • for auxiliary and control contacts         - solid         - finely stranded with core end processing         • for AWG cables for auxiliary and control contacts         - finely stranded with core end processing         • for AWG cables for auxiliary and control contacts         AWG number as coded connectable conductor cross section for main contacts         tightening torque       for main conta	45 mm 47 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (18 14) 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.15 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.15 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.15 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.10 m <sup>2</sup> 1.5 2.5 mm <sup>2</sup> 1.5 2.5 m <sup>2</sup> 1.5
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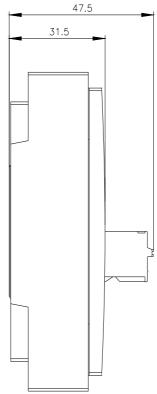
<ul> <li>for auxiliary and control contacts</li> </ul>	10 mm
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
• during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterion 2
• due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	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	
<ul> <li>of full range R fuse link for semiconductor protection at NH design usable</li> </ul>	3NE1803-0; These fuses have a smaller rated current than the semiconductor
<ul> <li>of back-up R fuse link for semiconductor protection at NH</li> </ul>	relays 3NE8018-1
<ul> <li>of back-up R fuse link for semiconductor protection at RT and the semiconductor protect</li></ul>	3NC1450: These fuses have a smaller rated current than the semiconductor
cylindrical design 14 x 51 mm usable	relays
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>	<u>3NC2250: These fuses have a smaller rated current than the semiconductor relays</u>
manufacturer's article number of the gG fuse at NH design usable	
• up to 460 V	3NA3807-6: These fuses have a smaller rated current than the semiconductor
• up to 600 V	relays 3NA3805-6: These fuses have a smaller rated current than the semiconductor
	<u>relays</u>
Certificates/ approvals	
General Product Approval	EMC Declaration of Con- formity
Confirmation CSA	ERIC RCM CE
Declaration of Con- formity Test Certificates other	
UK <u>Type Test Certific-</u> ates/Test Report	ion VDE
Further information	
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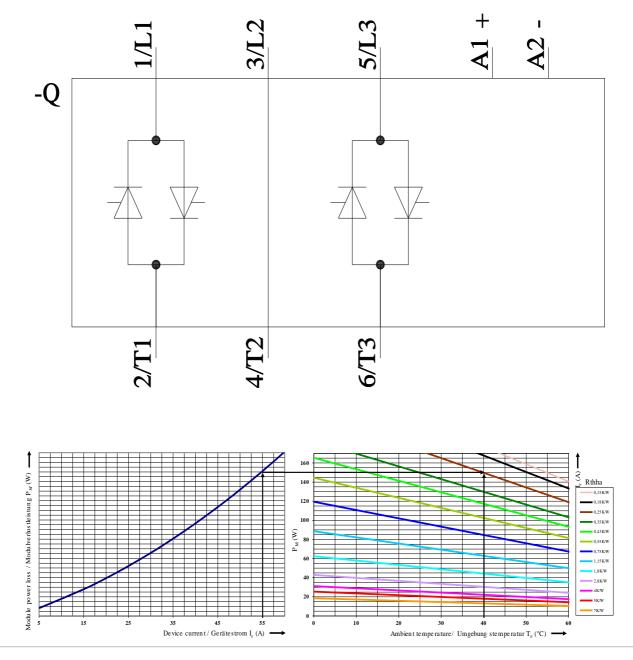
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