



SOLID STATE RELAY 3-PHASE 3RF2 30 A 40 DEG. C 48-600 V / 4-30 V DC 3PH.-CONTROLLED RING TERMINAL LUG BLOCKING VOLTAGE 1200 V

General technical data:

product brand name		SIRIUS
product designation		solid-state relay
Product function		zero-point switching
Number of poles / for main current circuit		3
Protection class IP		IP20
Product designation / _2 / of the accessories that can be ordered		converter
Manufacturer article number / _2 / of the accessories that can be ordered		3RF2900-0EA18
Ambient temperature		
• during operating	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude / at a height over sea level / maximum	m	1,000
Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according to DIN EN 61346-2		Q
Number of NC contacts / for auxiliary contacts		0

Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0

Main circuit:

Number of NO contacts / for main contacts		3
Number of NC contacts / for main contacts		0
Operating current • at AC-1 / at 400 V / rated value • at AC-51 / rated value	A A	30 30
Derating temperature	°C	40
Operating current / minimum	mA	500
Resistance against the impulse current / rated value	A	300
I ² t-level / maximum	A ² ·s	450
Operating voltage • at 50 Hz / at AC / rated value • at 60 Hz / at AC / rated value	V V	48 ... 600 48 ... 600
Working area related to the operating voltage • at 50 Hz / for AC • at 60 Hz / for AC	V V	40 ... 660 40 ... 660
Operating frequency • rated value	Hz	50 ... 60
Relative symmetrical tolerance / of the operation frequency	%	10
Insulation voltage / rated value	V	600
Voltage slew rate / at the thyristor / for main contacts / maximum permissible	V/μs	500
Block voltage / at the thyristor / for main contacts / maximum permissible	V	1,200
Reverse current / of the thyristor	mA	10
Control current / at minimum control supply voltage • for DC	mA	2
Fuse assignments	https://www.automation.siemens.com/cd-static/material/info/3RF22_eng.pdf	

Control circuit:

Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1 • for DC	V	4 ... 30
Control supply voltage • for DC / final value for signal<0>-recognition	V	1
Control current • for DC / rated value	mA	15

Installation/mounting/dimensions:		
Type of mounting		screw fixing
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N·m	1.5
Width	mm	45
Height	mm	95
Depth	mm	47

Connections:		
Design of the electrical connection / for main current circuit		ring cable connection
Design of the thread / of the connection screw / for main contacts		M4
Tightening torque / for main contacts • with screw-type terminals	N·m	2 ... 2.5
Tightening torque (lbf·in) / for main contacts • with screw-type terminals	lbf·in	7 ... 10.3
Type of the connectable conductor cross-section • for AWG conductors • for auxiliary and control contacts • for auxiliary and control contacts • solid • finely stranded • with conductor end processing • without conductor final cutting		1x (AWG 20 ... 12) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)
Conductor cross section that can be connected • for auxiliary and control contacts • solid • stranded wire • with conductor end processing / • without conductor final cutting	mm² mm² mm²	0.5 ... 2.5 0.5 ... 2.5 0.5 ... 2.5
AWG number / as coded connectable conductor cross-section • for auxiliary and control contacts		20 ... 12
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3
Skinning length / of the cable • for main contacts • for auxiliary and control contacts	mm mm	7 7

Tightening torque / for auxiliary and control contacts • with screw-type terminals	N·m	0.5 ... 0.6
Tightening torque (lbf·in) / for auxiliary and control contacts • with screw-type terminals	lbf·in	4.5 ... 5.3

Certificates/approvals:

General Product Approval			EMC	Declaration of Conformity	Test Certificates
 CSA	 GOST	 UL	 C-TICK	 EG-Konf.	Type Test Certificates/Test Report

other

[Environmental Confirmations](#)

Further information:

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

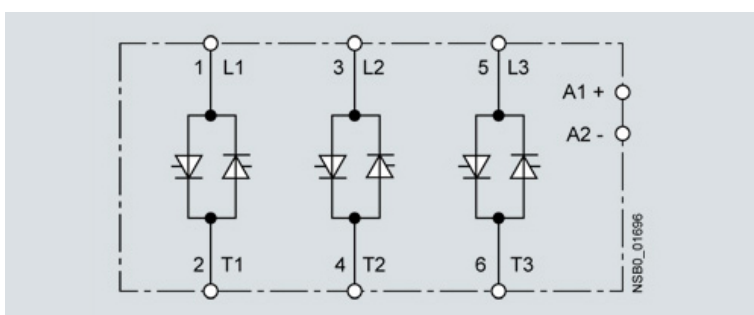
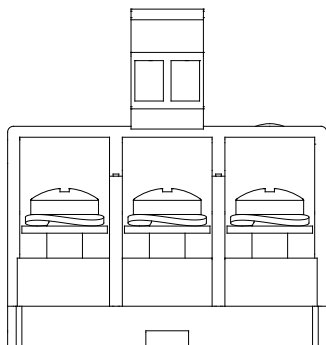
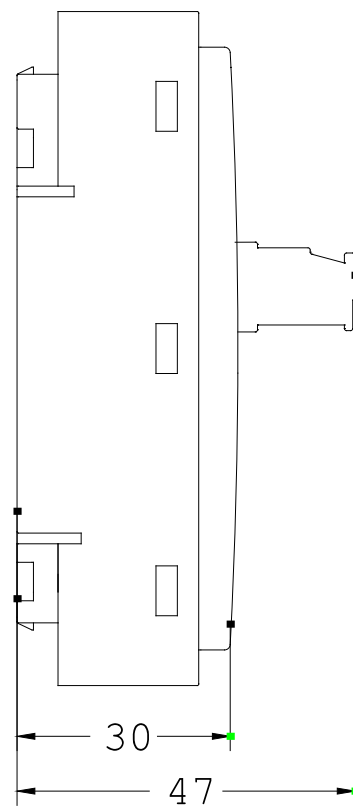
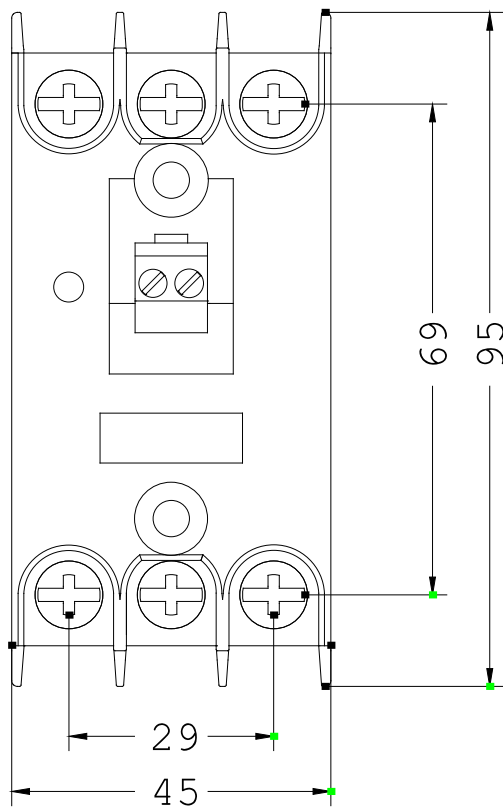
<http://www.siemens.com/cax>

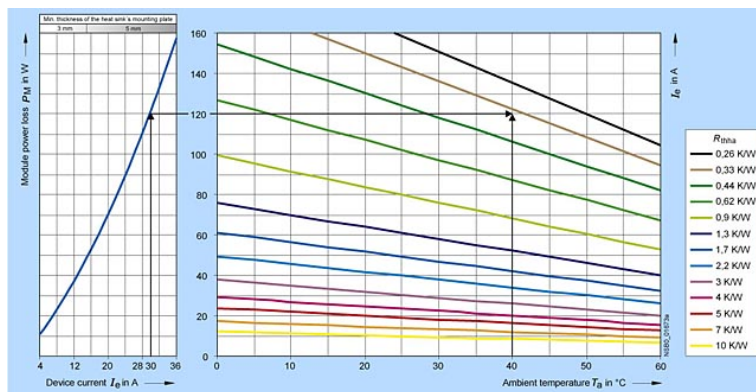
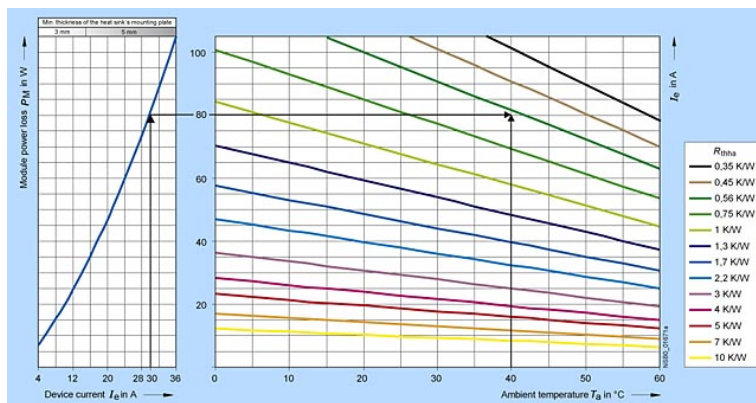
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RF2230-3AC45/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2230-3AC45





last change:

Feb 4, 2013