



SOLID STATE RELAY 3-PHASE 3RF2 55 A 40 DEG. C 48-600 V / 4-30 V DC 2PH.-CONTROLLED SPRING-TYPE
TERMINAL 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		2
Number of NC contacts / for main contacts		0
Operating current <ul style="list-style-type: none"> • at AC-1 / at 400 V / rated value • at AC-51 / rated value 	A A	55 55
Derating temperature	°C	40
Operating current / minimum	mA	500
Resistance against the impulse current / rated value	A	600
I ² t-level / maximum	A ² ·s	1,800
Operating voltage <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • at 50 Hz / for AC • at 60 Hz / for AC 	V V	40 ... 660 40 ... 660
Operating frequency <ul style="list-style-type: none"> • 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	100
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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • for DC 	V	4 ... 30
Control supply voltage <ul style="list-style-type: none"> • for DC / final value for signal<0>-recognition 	V	1
Control current <ul style="list-style-type: none"> • 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		spring-loaded terminals
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
Type of the connectable conductor cross-section • for main contacts • solid • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors • for main contacts • for auxiliary and control contacts • for auxiliary and control contacts • solid • finely stranded • with conductor end processing • without conductor final cutting		2x (0.5 ... 2.5 mm²) 2x (0.5 ... 1.5 mm²) 2x (0.5 ... 2.5 mm²) 2x (18 ... 14) 1x (AWG 20 ... 12) 0.5 ... 1.5 mm² 0.5 ... 2.5 mm² 0.5 ... 2.5 mm²
Conductor cross section that can be connected • for main contacts • solid • stranded wire • with conductor end processing • without conductor final cutting • for auxiliary and control contacts • solid • stranded wire • with conductor end processing /	mm² mm² mm² mm² mm²	0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5

• without conductor final cutting	mm ²	0.5 ... 2.5
AWG number / as coded connectable conductor cross-section		
• for main contacts		10 ... 14
• for auxiliary and control contacts		20 ... 12
Design of the electrical connection / for auxiliary and control current circuit		spring-loaded terminals
Skinning length / of the cable		
• for main contacts	mm	10
• for auxiliary and control contacts	mm	10

Certificates/approvals:

General Product Approval			Test Certificates	other
			Type Test Certificates/Test Report	Declaration of Conformity
CSA	GOST	UR		
				UL

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

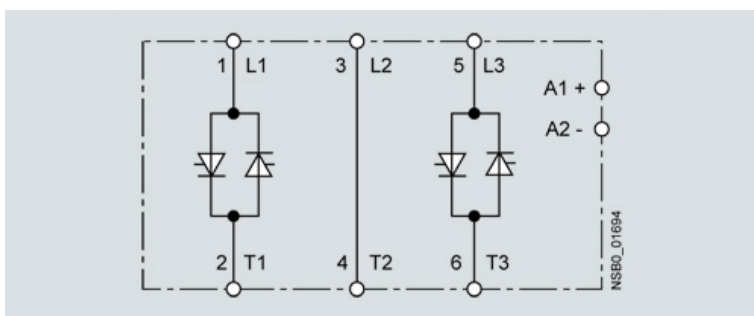
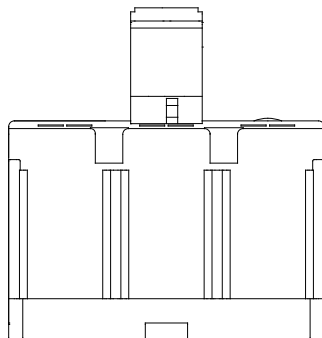
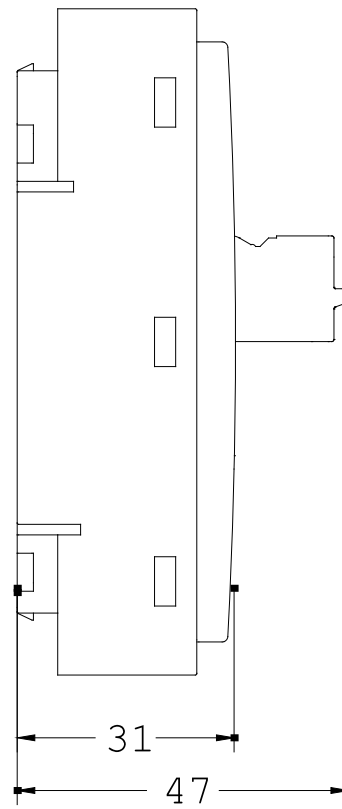
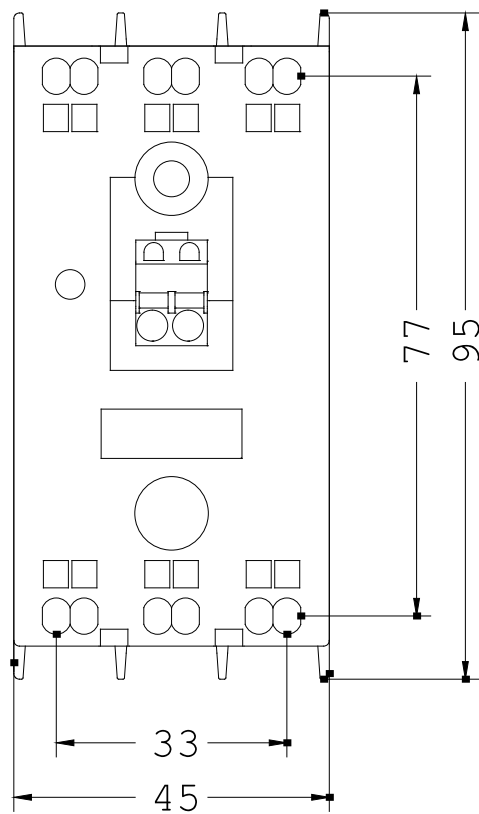
<http://www.siemens.com/cax>

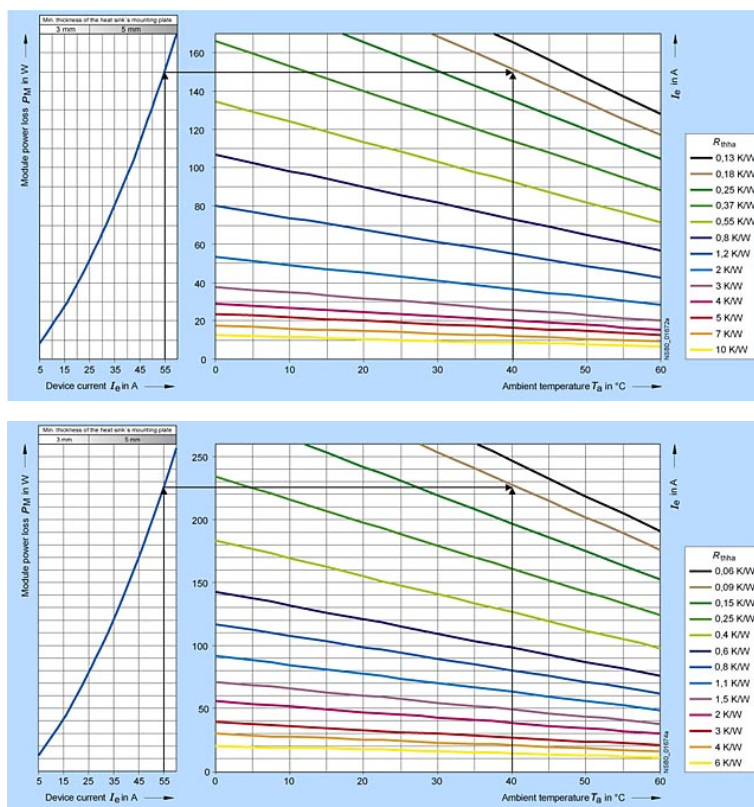
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RF2255-2AB45/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2255-2AB45





last change:

May 28, 2012