



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 operation	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude at height above sea level maximum	m	1 000
Vibration resistance acc. to IEC 60068-2-6		2g
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking acc. to DIN EN 61346-2		Q
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0
Main circuit:		
Number of NO contacts for main contacts		2
Number of NC contacts for main contacts		0

Operating current		
• Rated value maximum	A	55
• at AC-51 Rated value	A	20
• minimum	mA	500
Derating temperature	°C	40
Surge current resistance Rated value	A	600
I²t value maximum	A ² ·s	1 800
Operating voltage with AC		
• at 50 Hz Rated value	V	48 ... 600
• at 60 Hz Rated value	V	48 ... 600
Operating range relative to the operating voltage with AC		
• at 50 Hz	V	40 ... 660
• at 60 Hz	V	40 ... 660
Operating frequency Rated value	Hz	50 ... 60
Relative symmetrical tolerance of the operating frequency	%	10
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/μs	100
Blocking 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
Short-circuit protection, design of the fuse link		

Control circuit/ Control:






Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC	V	4 ... 30
Control supply voltage		
• for DC Full-scale value for signal<0> recognition	V	1
Control current		
• for DC Rated value	mA	15

Installation/ mounting/ dimensions:

Mounting type		screw fixing
Mounting type Side-by-side mounting		Yes
Design of the thread of the screw for securing the equipment		M4
Tightening torque of the screw for securing the equipment	N·m	1.5
Width	mm	45

Height	mm	95
Depth	mm	47
Connections/ Terminals:		
Type of 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 connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing • for AWG conductors <ul style="list-style-type: none"> — for main contacts — for auxiliary and control contacts • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing 		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (18 ... 14) 1x (AWG 20 ... 12) 0.5 ... 1.5 mm ² 0.5 ... 2.5 mm ² 0.5 ... 2.5 mm ²
Connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing 	mm ² mm ² mm ² mm ² mm ² mm ²	0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 2.5
AWG number as coded connectable conductor cross section		
<ul style="list-style-type: none"> • for main contacts • for auxiliary and control contacts 		10 ... 14 20 ... 12
Type of electrical connection for auxiliary and control current circuit		spring-loaded terminals
Wire stripping length of the cable		
<ul style="list-style-type: none"> • for main contacts • for auxiliary and control contacts 	mm mm	10 10

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity	Test Certificates		
 CSA	 UR		 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/industrymall>

Cax online generator

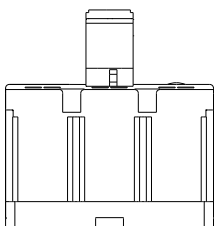
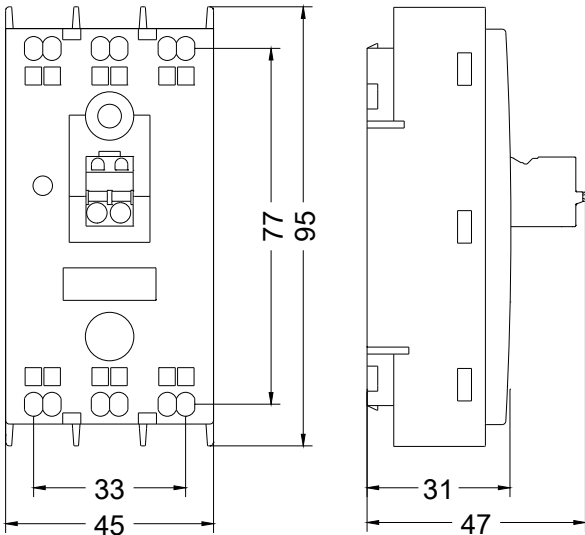
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22552AB45>

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

<http://support.automation.siemens.com/WW/view/en/3RF22552AB45/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF22552AB45&lang=en>



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09.03.2015