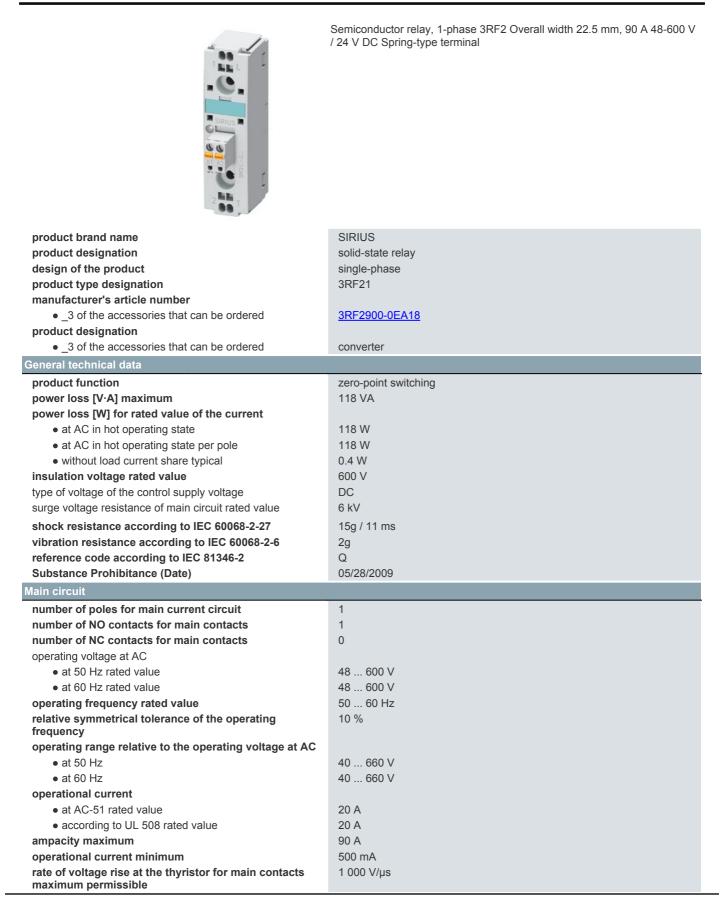
SIEMENS

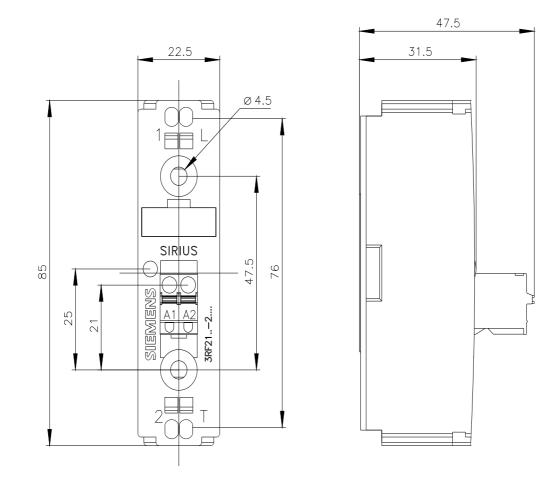
Data sheet

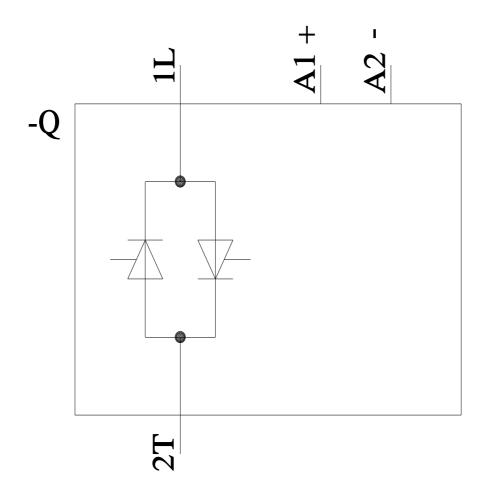
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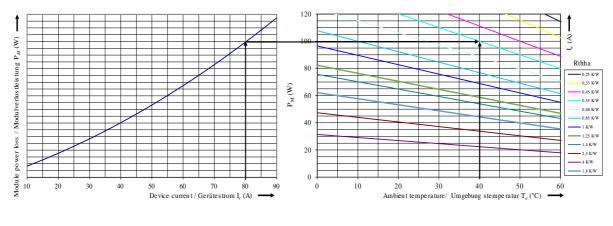


blocking voltage at the thyristor for main contacts	1 600 V
maximum permissible	
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value l2t value maximum	1 150 A
	6 600 Å ^{2.} s
Control circuit/ Control	DC.
type of voltage of the control supply voltage control supply voltage 1	DC
at DC rated value	30 V
• at DC	15 24 V
control supply voltage	
 at DC initial value for signal <1> detection 	15 V
 at DC full-scale value for signal<0> recognition 	5 V
control current at minimum control supply voltage	
• at DC	13 mA
control current at DC rated value	15 mA
ON-delay time	1 ms; additionally max. one half-wave
OFF-delay time Auxiliary circuit	1 ms; additionally max. one half-wave
	0
number of NC contacts for auxiliary contacts 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	M4
equipment	4.5.1
tightening torque of fixing screw maximum	1.5 N·m
tightening torque [lbf·in] of fixing screw maximum height	13 lbf-in 85 mm
width	22.5 mm
depth	48 mm
depth	
depth Connections/ Terminals	48 mm spring-loaded terminals
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	48 mm
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	48 mm spring-loaded terminals
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	48 mm spring-loaded terminals spring-loaded terminals
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²)
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²)
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²)
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²)
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 • at AWG cables for main contacts connectable conductor cross-section for main contacts	48 mm spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14)
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ²
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ²
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ²
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ²
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 	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ²
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	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ²
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 	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ²
depth Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control 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 at AWG cables for main contacts connectable conductor cross-section for main contacts asolid or stranded finely stranded with core end processing for auxiliary and control contacts solid finely stranded with core end processing 	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1.5 2.5 mm ² 1x (AWG 20 12)
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 at AWG cables for main contacts solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing for auxiliary and control contacts a solid finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing a solid finely stranded with core end processing a solid finely stranded with core end processing a solid a finely stranded with core end processing a solid a solid a solid a solid b stranded with core end processing contacts	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ²
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 at AWG cables for main contacts solid or stranded finely stranded with core end processing finely stranded with core end processing at of the stranded with core end processing 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 finely stranded with core end processing a solid finely stranded with core end processing a solid a finely stranded with core end processing a taWG cables for auxiliary and control contacts at AWG cables for auxiliary and control contacts At WG cables for auxiliary and control contacts 	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 1.5 2.5 mm ² 1x (AWG 20 12)
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 at AWG cables for main contacts solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing for auxiliary and control contacts a solid finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing a solid finely stranded with core end processing a solid finely stranded with core end processing a solid a finely stranded with core end processing a solid a solid a solid a solid b stranded with core end processing contacts	48 mm spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1.5 2.5 mm ² 1x (AWG 20 12)
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 at AWG cables for main 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 a solid finely stranded with core end processing a solid finely stranded with core end processing a solid finely stranded without core end processing a solid finely stranded without core end processing at AWG cables for auxiliary and control contacts AWG cables for auxiliary and control contacts 	48 mm spring-loaded terminals pring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1.5 2.10 mm ² 1.5 2.5 mm ² 1.5 2.10 mm ² 1.5 2.5 mm ²
depth Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit for anin contacts solid finely stranded with core end processing at AWG cables for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts Connectable conductor cross-section for main contacts a at AWG cables for main contacts connectable conductor cross-section for main contacts a solid or stranded i finely stranded with core end processing b solid or stranded i finely stranded with core end processing b finely stranded without core end processing b finely stranded without core end processing b finely stranded without core end processing b for auxiliary and control contacts b for auxiliary and control contacts b solid b finely stranded with core end processing b for auxiliary and control contacts b solid b finely stranded with core end processing c at AWG cables for auxiliary and control contacts b solid b finely stranded without core end processing c at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque b for main contacts with screw-type terminals stripped length of the cable b for main contacts	48 mm spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 18 14 2 2.5 N·m 10 mm
depth Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit for main contacts solid finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts at AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded without core end processing for auxiliary and control contacts solid finely stranded without core end processing at AWG cables for auxiliary and control contacts asolid finely stranded without core end processing at AWG cables for auxiliary and control contacts At AWG cables for auxiliary and control contacts At AWG cables for auxiliary and control contacts At AWG number as coded connectable conductor cross section for main contacts tightening torque for main contacts with screw-type terminals stripped length of the cable for main contacts	48 mm spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1.5 2.5 mm ² 1.x (AWG 20 12) 18 14 2 2.5 N·m
depth stype of electrical connection e for main current circuit e for auxiliary and control circuit type of connectable conductor cross-sections e for main contacts - solid - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing other transformation e at AWG cables for main contacts connectable conductor cross-section for main contacts outcotts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts - solid - finely stranded with core end processing - finely stranded without core end processing - solid - finely stranded with core end processing <td< th=""><th>48 mm 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 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 1x (AWG 20 12) 18 14 2 2.5 N·m 10 mm</th></td<>	48 mm spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 18 14 2 2.5 N·m 10 mm
depth Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit for main contacts solid finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts at AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded without core end processing for auxiliary and control contacts solid finely stranded without core end processing at AWG cables for auxiliary and control contacts asolid finely stranded without core end processing at AWG cables for auxiliary and control contacts At AWG cables for auxiliary and control contacts At AWG cables for auxiliary and control contacts At AWG number as coded connectable conductor cross section for main contacts tightening torque for main contacts with screw-type terminals stripped length of the cable for main contacts	48 mm spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 18 14 2 2.5 N·m 10 mm

touch protection on	the front according t	o IEC 60529	finger	-safe, for vertical con	tact from the front		
Ambient conditions							
	t height above sea leve	l maximum	1 000 m				
ambient temperatur	0						
 during operation 	on		-25	+60 °C			
 during storage 			-55	+80 °C			
Electromagnetic com	patibility						
conducted interfere	ence						
• 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 l	1 kV behavior criterion 2			
• due to high-frequency radiation according to IEC 140 dBuV in the frequency range 0.15 80 MHz, beha 61000-4-6					Hz, behavior criterion 1		
field-based interfere	ence according to IEC	61000-4-3	80 Mł	Hz 1 GHz 10 V/m,	behavior criterion 1		
electrostatic discha	rge according to IEC	61000-4-2	4 kV (contact discharging /	8 kV air discharging	, behavior criterion 2	
conducted HF inter CISPR11	ference emissions ac	cording to	Class	A for industrial enviro	onment		
	rference emission acc	cording to	Class	B for the domestic, b	ousiness and comm	ercial environments	
Short-circuit protecti	on, design of the fuse	link					
manufacturer's article							
	semiconductor protectio	on at NH	<u>3NE1</u>	<u>817-0</u>			
•	use link for semiconduc	tor protection	<u>3NE8</u>	<u>021-1</u>			
 of back-up R full 	use link for semiconduc ign 22 x 58 mm usable			2 <u>80;</u> These fuses ha	ve a smaller rated c	urrent than the	
•	e number of the gG fuse			,			
 at NH design u 			3NA6	812-6; These fuses h	ave a smaller rated	current than the	
0			semic	conductor relays			
Certificates/ approva	ls			-			
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	pproval	SN UR		ERC	Ô	Conformity	
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General Product An General Product An Conformity UCA Further information Information on the phttps://support.indust Information- and Do https://www.siemenss Industry Mall (Onlin https://mall.industry.sc Cax online generato http://support.automa Service&Support (M	pproval Confirmation Test Certificates Type Test Certific- ates/Test Report packaging try.siemens.com/cs/ww/ pwnloadcenter (Catalo	Special Test Ca ate /en/view/1098138 ogs, Brochures,. n/Catalog/product /CAXorder/defaul Characteristics,	ertific- <u>375</u>) t?mlfb=3 <u>t?mlfb=3</u> t 2 FAQS ,	Confirmation <u>Confirmation</u> <u>SRF2190-2AA06</u> <u>lang=en&mlfb=3RF2</u>		Conformity CEG-Konf. Railway	







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