SIEMENS

Data sheet

3RF2190-3AA44



Semiconductor relay, 1-phase 3RF2 Overall width 22.5 mm, 90 A 48-460 V / 4-30 V DC Ring cable connection

product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF21
manufacturer's article number	
 _1 of the accessories that can be ordered 	<u>3RF2900-3PA88</u>
 _3 of the accessories that can be ordered 	3RF2900-0EA18
 4 of the accessories that can be ordered 	3RF2990-0GA16
product designation	
 _1 of the accessories that can be ordered 	terminal cover
 _3 of the accessories that can be ordered 	converter
 _4 of the accessories that can be ordered 	load monitoring
General technical data	
product function	zero-point switching
power loss [V·A] maximum	118 VA
power loss [W] for rated value of the current	
 at AC in hot operating state 	118 W
 at AC in hot operating state per pole 	118 W
 without load current share typical 	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 IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
 at 50 Hz rated value 	48 460 V
 at 60 Hz rated value 	48 460 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	40 506 V
• at 60 Hz	40 506 V
operational current	
 at AC-51 rated value 	88 A
 according to UL 508 rated value 	80 A

ampacity maximum	90 A
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs
blocking voltage at the thyristor for main contacts	1 200 V
maximum permissible	1200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	1 150 A
I2t value maximum	6 600 A ² ·s
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1	
 at DC rated value 	30 V
● 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	
• 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	1 ms; additionally max. one half-wave
Auxiliary circuit	0
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
	85 mm
height width	
height	85 mm
height width	85 mm 22.5 mm
height width depth	85 mm 22.5 mm
height width depth Connections/ Terminals	85 mm 22.5 mm
height width depth Connections/ Terminals type of electrical connection	85 mm 22.5 mm 48 mm
height width depth Connections/ Terminals type of electrical connection • for main current circuit	85 mm 22.5 mm 48 mm Ring cable lug connection
height 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 for JIS cable lug	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
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height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts - solid	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
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height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12) 2 2.5 N·m
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height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 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) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf·in
height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf-in 4.5 5.3 lbf-in
height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw • for main contacts	85 mm 22.5 mm 48 mm Ring cable lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 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) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf-in 4.5 5.3 lbf-in M5
height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf-in 4.5 5.3 lbf-in
height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts - solid - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts stripped length of the cable	85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 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) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf in 4.5 5.3 lbf in M5 M3
height 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 for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts	85 mm 22.5 mm 48 mm Ring cable lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 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) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf-in 4.5 5.3 lbf-in M5

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61000-4-5 • due to conductor-o	ding to IEC 61000-4-4	1	2 kV / 5 kHz behavior criterion 2				
• due to conductor-o	earth surge according	to IEC	2 kV behavior criterion 2				
61000-4-5	conductor surge acco	rding to IEC	1 kV behavior criterion 2				
	ency radiation accordi	ng to IEC	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
field-based interference	e according to IEC 6	61000-4-3	80 MHz 1 GHz 10 V/	m, behavior criterion 1			
electrostatic discharge	e according to IEC 6	1000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2				
conducted HF interfere	ence emissions acco	ording to	Class A for industrial environment				
field-bound HF interfer CISPR11	rence emission acco	rding to	Class B for the domestic, business and commercial environments				
hort-circuit protection,	design of the fuse I	ink					
manufacturer's article nu							
	• of full range R fuse link for semiconductor protection at NH design usable		<u>3NE1021-2</u>				
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of back-up R fuse link for semiconductor protection		3NC2280; These fuses have a smaller rated current than the					
at cylindrical design 22 x 58 mm usable		semiconductor relays					
manufacturer's article nu	-						
 at NH design usable 		<u>3NA6812;</u> These fuses have a smaller rated current than the semiconductor relays					
 at cylindrical desic 	• at cylindrical design 22 x 58 mm usable		semiconductor relays				
	• at cylindrical design 22 x 58 mm usable		<u>3NW6212-1;</u> These fuses have a smaller rated current than the semiconductor relays				
manufacturer's article nu	umber		,				
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			semiconductor relays				
ertificates/ approvals							
General Product Appro	oval			EMC	Declaration of Conformity		
				_			
(T)	Confirmation		ГПГ	A	UK		
Q12		71	FAL	<u>(</u>)	20		
CSA		UR	LIIL	RCM	LH		
Declaration of Conformity	Test Certificates	other					
	Type Test Certific-	Confirmation	on 🔨				
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EG-Konf.			VDE				
			1.5%				

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Industry Mall (Online ordering system)

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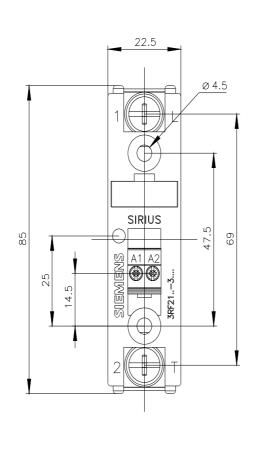
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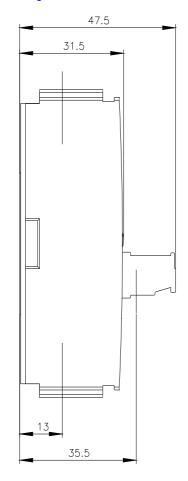
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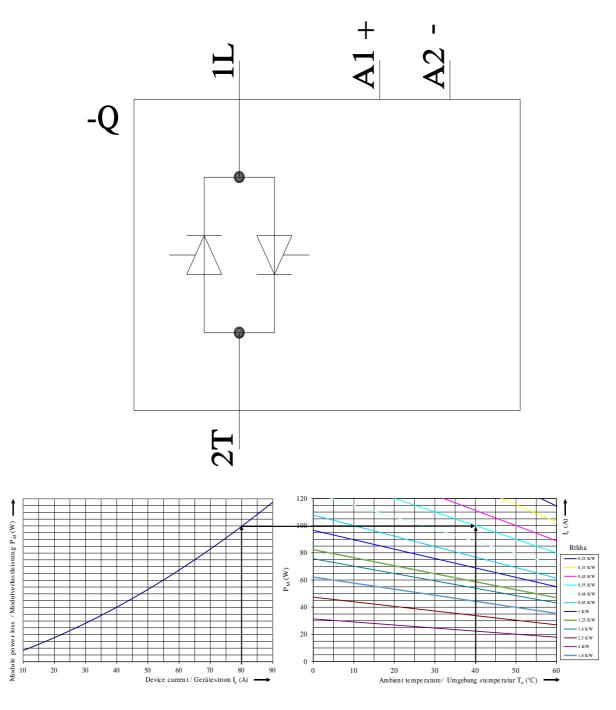
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https://support.industry.siemens.com/cs/ww/en/ps/3RF2190-3AA44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2190-3AA44&lang=en







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