SIEMENS

Data sheet

3RF2230-3AB45



Semiconductor relay, 3-phase 3RF2 30 A / 40 $^\circ$ C 48-600 V / 4-30 V DC 2-phase controlled Ring cable connection Blocking voltage 1200 V

product brand name	SIRIUS
product designation	solid-state relay
design of the product	two-phase controlled
product type designation	3RF22
manufacturer's article number	
 _2 of the accessories that can be ordered 	<u>3RF2900-0EA18</u>
product designation	
 _2 of the accessories that can be ordered 	converter
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	81 W
 at AC in hot operating state per pole 	81 W
 without load current share typical 	0.9 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 EN 61346-2	Q
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2006
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	2
number of NC contacts for main contacts	0
operating voltage at AC	
• at 50 Hz rated value	48 600 V
• at 60 Hz rated value	48 600 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	40 660 V
• at 60 Hz	40 660 V
operational current	
• at AC-51 rated value	30 A
according to UL 508 rated value	30 A
ampacity maximum	30 A
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts	500 V/µs

	-		
maximum permissible			
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	300 A		
l2t value maximum	300 A 450 A²-s		
Control circuit/ Control			
	DC		
type of voltage of the control supply voltage control supply voltage 1			
• at DC	4 30 V		
control supply voltage	4 50 V		
at DC initial value for signal <1> detection	4 V		
C C	4 V 1 V		
at DC full-scale value for signal<0> recognition control current at minimum control supply voltage			
• at DC	22 mA		
control current at DC rated value	30 mA		
ON-delay time	1 ms; additionally max. one half-wave		
OFF-delay time	1 ms; additionally max. one half-wave		
Auxiliary circuit	י הוס, מטמווטרומוץ דומא. טרט רומוד-שמעכ		
	0		
number of NC contacts for auxiliary contacts	0		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0		
Installation/ mounting/ dimensions	•		
	corow fixing		
fastening method	screw fixing		
• side-by-side mounting	Yes M4		
design of the thread of the screw for securing the equipment	1014		
tightening torque of fixing screw maximum	1.5 N·m		
tightening torque [lbf·in] of fixing screw maximum	13 lbf·in		
height	95 mm		
width	45 mm		
vidthdepth	45 mm 47 mm		
depth			
depth Connections/ Terminals			
depth Connections/ Terminals type of electrical connection	47 mm		
depth Connections/ Terminals type of electrical connection • for main current circuit	47 mm Ring cable lug connection		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	47 mm Ring cable lug connection		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	47 mm Ring cable lug connection		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts	47 mm Ring cable lug connection screw-type terminals		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts — solid	47 mm Ring cable lug connection screw-type terminals 1x (0.5 2.5 mm ²), 2x (0.5 1.0 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 auxiliary and control contacts — solid — finely stranded with core end processing	47 mm Ring cable lug connection screw-type terminals 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)		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing	47 mm Ring cable lug connection screw-type terminals 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)		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary and control contacts	47 mm Ring cable lug connection screw-type terminals 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)		
depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type	47 mm Ring cable lug connection screw-type terminals 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)		
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depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary and control contacts - solid - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing • for 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 • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts • for main contacts • for main contacts • of the auxiliary and control contacts <td>47 mm Ring cable lug connection screw-type terminals 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 18 22 lbf-in 4.5 5.3 lbf-in M4 M3 7 mm</td>	47 mm Ring cable lug connection screw-type terminals 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 18 22 lbf-in 4.5 5.3 lbf-in M4 M3 7 mm		
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 during operation 			-25 +60 °C				
during storage			-55 +80 °C				
Electromagnetic compa	tibility						
conducted interference	e						
• 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 behavior criterion 2					
 due to high-frequency radiation according to IEC 61000- 4-6 			140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
electrostatic discharge according to IEC 61000-4-2		4 kV contact discharging / 8 kV air discharging, behavior criterion 2					
conducted HF interference emissions according to CISPR11		Class A for industrial environment					
	rence emission accordi	ng to CISPR11	Class A for industrial e	nvironment			
hort-circuit protection	, design of the fuse link						
manufacturer's article n							
 of full range R fuse link for semiconductor protection at NH design usable 		<u>3NE1814-0; These fuses have a smaller rated current than the semiconductor relays</u>					
 of back-up R fuse link for semiconductor protection at NH design usable 			<u>3NE8003-1</u>				
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 		<u>3NC1025: These fuses have a smaller rated current than the semiconductor</u> relays					
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 		<u>3NC1430</u>					
	 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 		<u>3NC2232</u>	<u>3NC2232</u>			
manufacturer's article number of the gG fuse at NH design usable							
• up to 460 V		<u>3NA3803-6: These fuses have a smaller rated current than the semiconductor relays</u>					
• up to 600 V	• up to 600 V			<u>3NA3803-6; These fuses have a smaller rated current than the semiconductor</u> relays			
Certificates/ approvals			<u>rotaju</u>	_			
General Product Appr	roval			EMC	Declaration of Con- formity		
(SP) Car	<u>Confirmation</u>	SAN	EAI	RCM	O UK		
Declaration of Con- formity	Test Certificates	other					
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>		>			
	to exit the Russian mar						
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Cax online generator

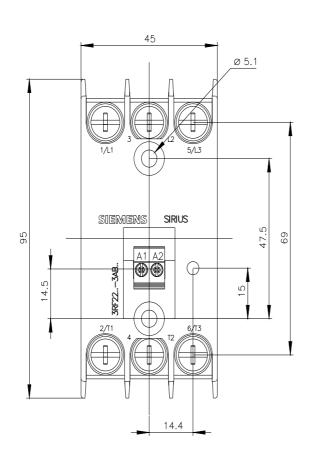
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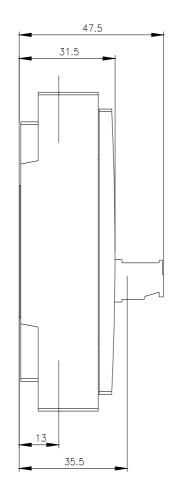
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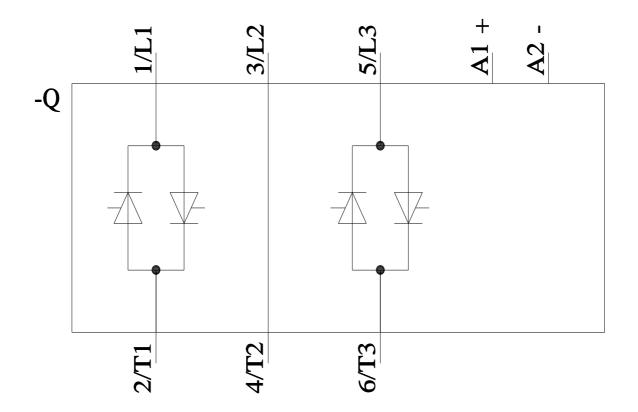
https://support.industry.siemens.com/cs/ww/en/ps/3RF2230-3AB45

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

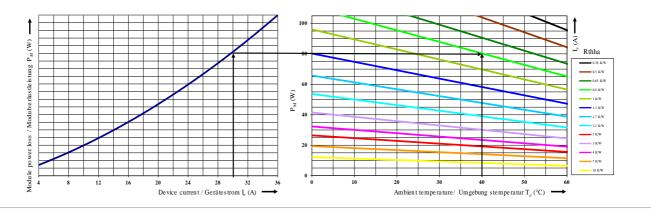
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2230-3AB45&lang=en







8/8/2023



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