SIEMENS

Data sheet

3RF22 30-1AC35



SOLID-STATE RELAY 3-PHASE 3RF2 30 A 40 DEG. C 48-600 V / 110 V AC 3-PHASE CONTROLLED SCREW 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		
Ambient temperature				
 during operation 	°C	-25 +60		
 during storage 	°C	-55 +80		
Installation altitude at height above sea level	m	1 000		
maximum				
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		К		
according to IEC 204-2 acc. to IEC 750				
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		3		
Number of NC contacts for main contacts		0		
Operating current				
 Rated value maximum 	А	30		
• at AC-51 Rated value	А	30		

• minimum	mA	500	
Derating temperature	°C	40	
Surge current resistance Rated value	А	300	
I2t value maximum	A²·s	450	
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	500	
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			
• with AC	mA	2	
Short-circuit protection, design of the fuse link			

Control circuit/ Control:				
	AC			
V	88 121			
V	88 121			
_				
Hz	50			
Hz	60			
V	40			
V	40			
%	10			
mA	15			
	V Hz Hz V V			

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		screw-type 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		
Tightening torque [lbf·in] for main contacts with screw-type terminals	lbf∙in	7 10.3		
Type of connectable conductor cross-section				
 for main contacts 				
— solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		
— finely stranded				
— with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
 for AWG conductors 				
— for main contacts		2x (14 10)		
— for auxiliary and control contacts		1x (AWG 20 12)		
 for auxiliary and control contacts 				
— solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)		
— finely stranded				
— with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)		
- without core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)		
Connectable conductor cross-section				
 for main contacts 				
 — single or multi-stranded 	mm²	1.5 6		
— finely stranded				
— with core end processing	mm²	1 10		
 for auxiliary and control contacts 				
— solid	mm²	0.5 2.5		
— finely stranded				
- with core end processing	mm²	0.5 2.5		
- without core end processing	mm²	0.5 2.5		
AWG number as coded connectable conductor cross section				
 for main contacts 		10 14		

current circuit Design of the thread of the connection screw of the auxiliary and control contacts		M3
Wire stripping length of the cable		
• for main contacts	mm	7
 for auxiliary and control contacts 	mm	7
Tightening torque for auxiliary and control contacts with screw-type terminals	N∙m	0.5 0.6
Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	lbf∙in	4.5 5.3

	General Product Approval			EMC	Declaration of Conformity	Test Certificates
-			С	EG-Konf.	Type Test Certificates/Test Report	

other

Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

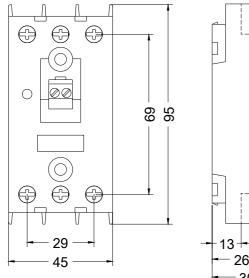
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

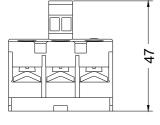
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF22301AC35

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF22301AC35/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF22301AC35&lang=en







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