SIEMENS

Data sheet

3RF2070-1AA04



Semiconductor relay, 1-phase 3RF2 Overall width 45 mm, 70 A 48-460 V / 24 V DC screw terminal

product brand name SIRUS product designation solid state relay design of the product single-phase product type designation 3RF20 Central tachnical data zero-point switching product function zero-point switching power loss [W] for rated value of the current 4 • at AC in hot operating state 94 W • at AC in hot operating state per pole 94 W • without load current share typical 0.4 W insulation voltage rated value 600 V Stock resistance according to IEC 60088-2:7 15g /11 ms vibration resistance according to IEC 60088-2:6 2g reference code according to IEC 60088-2:6 2g reference code according to IEC 60088-2:6 2g reference code according to IEC 60188-2:6 2g reference code according to IEC 61946-2 Q Substance Prohibitance (Date) 0528/2009 Main circuit 1 number of NO contacts for main contacts 1 number of NC contacts for main contacts 1 number of NC contacts for main contacts 1		
design of the product single-phase product type designation 38F20 Ceneral technical data	product brand name	SIRIUS
product type designation 3RF20 Ceneral tochnical data zero-point switching product function zero-point switching o at AC in hot operating state 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W • at AC in hot operating state per pole 94 W inscinction 04 W inscinction 108 Per pole type of voltage of the control supply voltage DC skstance Prohibitance (Date) 05/28/2009 Main circuit 1 number of Pole for main contacts 1 number of NC contacts for main contacts 1 operating regreguency rated value 50 460 V	product designation	solid-state relay
Ceneral technical data product function zero-point switching power loss (W) for rated value of the current 94 W • at AC in hot operating state per pole 94 W • without bad current share typical 0.4 W Insulation voltage rated value 600 V type of voltage of the control supply voltage DC shock resistance according to IEC 60068-2-67 2g reference code according to IEC 60068-2-67 2g reference code according to IEC 81348-22 Q Substance Prohibitance (Date) 05/28/2009 Main circuit 1 number of NO contacts for main current circuit 1 number of NC contacts for main contacts 0 operating voltage at AC 48 460 V • at 50 Hz rated value 48 460 V • at 60 Hz rated value 48 460 V • at 60 Hz rated value 40 506 V • at 60 Hz rated value 50 60 Hz relative symmetrical tolerance of the operating frequency 10 % operating requency rated value 50 A • at 60 Hz 50 A • at 60 H	design of the product	single-phase
product function zero-point switching power loss [W] for rated value of the current 94 W • at AC in hot operating state per pole 94 W • without load current share typical 0.4 W Insulation voltage rated value 600 V type of voltage of the control supply voltage DC shock resistance according to IEC 60068-2-62 2g reference code according to IEC 60068-2-62 Q reference code according to IEC 81346-2 Q reference code according to IEC 81346-2 Q substance Prohibitance (Date) 05/28/2009 Main circuit 1 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 operating frequency rated value 48 460 V • at 50 Hz rated value 50 60 Hz reletive symmetrical tolerance of the operating frequency 10 % operat	product type designation	3RF20
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• at AC in hot operating state per pole 94 W • without load current share typical 0.4 W Insulation voltage rated value 600 V type of voltage of the control supply voltage DC 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 61346-2 Q Substance Prohibitance (Date) 05/28/2009 Main circuit 1 number of poles for main current circuit 1 number of NC contacts for main contacts 1 operating voltage at AC 48 460 V • at 60 Hz rated value 48 460 V • at 60 Hz rated value 70 A operating requency rated value 50 60 Hz • at 50 Hz 40 506 V • at 60 Hz 40 506 V • at 60 Hz 50 A • according to UL 508 rated value 50 A • at C-51 rated value 50 A • according to UL 508 rated value 50 A • according to UL 508 rated value 50 A • according to UL 508 rated value 50 A • according to UL 508 rated val	power loss [W] for rated value of the current	
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• according to UL 508 rated value50 Aampacity maximum70 Aoperational current minimum500 mArate of voltage rise at the thyristor for main contacts maximum permissible1 000 V/µsblocking voltage at the thyristor for main contacts maximum permissible1 200 Vreverse current of the thyristor10 mAderating temperature40 °C	operational current	
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maximum permissible I 200 V blocking voltage at the thyristor for main contacts maximum permissible 1 200 V reverse current of the thyristor 10 mA derating temperature 40 °C	operational current minimum	500 mA
maximum permissible 10 mA reverse current of the thyristor 10 mA derating temperature 40 °C		1 000 V/µs
derating temperature 40 °C		1 200 V
	reverse current of the thyristor	10 mA
surge current resistance rated value 1 200 A	derating temperature	40 °C
	surge current resistance rated value	1 200 A

12t valuo mavimum	7 200 42 6		
I2t value maximum	7 200 A ² ·s		
Control circuit/ Control	20		
type of voltage of the control supply voltage	DC		
control supply voltage 1			
 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	1 ms; additionally max. one half-wave		
Auxiliary circuit			
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	M4		
equipment			
tightening torque of fixing screw maximum	1.5 N·m		
tightening torque [lbf·in] of fixing screw maximum	13 lbf in		
height	58 mm		
width	45 mm		
depth	48 mm		
Connections/ Terminals			
type of electrical connection			
 for main current circuit 	screw-type terminals		
 for auxiliary and control circuit 	screw-type terminals		
type of connectable conductor cross-sections			
 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 cables for main contacts 	2x (14 10)		
connectable conductor cross-section for main contacts			
 solid or stranded 	1.5 6 mm²		
 finely stranded with core end processing 	1 10 mm²		
type of connectable conductor cross-sections			
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 mm ²), 2x (0.5 1.0 mm ²)		
 finely stranded with core end processing finely stranded without core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)		
 for AWG cables for auxiliary and control contacts 	1x (AWG 20 12)		
AWG number as coded connectable conductor cross section for	14 10		
main contacts			
tightening torque			
for main contacts with screw-type terminals	2 2.5 N·m		
 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m		
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 	7 10.3 lbf·in		
 for auxiliary and control contacts with screw-type terminals 	4.5 5.3 lbf·in		
design of the thread of the connection screw			
• for main contacts	M4		
 of the auxiliary and control contacts 	МЗ		
stripped length of the cable			
for main contacts	10 mm		
 for auxiliary and control contacts 	7 mm		

Safety related data						
protection class IP on th	ne front according to I	EC 60529	IP20			
touch protection on the	front according to IEC	60529	finger-safe, for vertical contact from the front			
Municipal Conditions						
installation altitude at heig	ht above sea level max	imum	1 000 m			
ambient temperature						
 during operation 			-25 +60 °C			
 during storage 			-55 +80 °C			
electromagnetic compatit	pility					
conducted interference						
 due to burst accord 	ing to IEC 61000-4-4		2 kV / 5 kHz behavior criterion 2			
 due to conductor-ea 	arth surge according to	IEC 61000-4-5	2 kV behavior criterion 2			
• due to conductor-co 61000-4-5	onductor surge accordir	ng to IEC	1 kV behavior criterion 2			
 due to high-frequent 4-6 	ncy radiation according	to IEC 61000-	140 dBuV in the freque	ency range 0.15 80 MHz,	, behavior criterion 1	
field-based interference	according to IEC 6100	00-4-3	80 MHz 1 GHz 10 V	/m, behavior criterion 1		
electrostatic discharge a	according to IEC 6100	0-4-2	4 kV contact discharging	ng / 8 kV air discharging, be	ehavior criterion 2	
conducted HF interferen CISPR11	ce emissions accordi	ng to	Class A for industrial environment			
field-bound HF interfere	nce emission accordi	ng to CISPR11	Class B for the domest	tic, business and commerci	al environments	
hort-circuit protection, d	esign of the fuse link					
manufacturer's article nun	nber					
NH design usable	link for semiconductor		<u>3NE1020-2</u>			
cylindrical design usa			<u>5SE1363: These fuses</u> relays	SE1363: These fuses have a smaller rated current than the semiconductor elays		
design usable	e link for semiconductor protection at NH		<u>3NE8020-1</u>			
cylindrical design 22		rotection at	<u>3NC2280</u>			
manufacturer's article nun	0					
• at NH design usable		<u>3NA6812: These fuses have a smaller rated current than the semiconductor</u> relays				
 at cylindrical design 	n 22 x 58 mm usable		3NW6212-1: These fuses have a smaller rated current than the semiconductor relays			
manufacturer's article nun	nber					
• of DIAZED fuse usable		5SB4111: These fuses have a smaller rated current than the semiconductor relays				
 of NEOZED fuse us 	sable		5SE2335; These fuses have a smaller rated current than the semiconductor relays			
Certificates/ approvals						
General Product Approv	val			EMC	Declaration of Con formity	
(Ch	Confirmation		rnr	· A	"	
		UR	EHL	RCM	EG-Konf.	
Declaration of Con- formity	Test Certificates	other				
UK CA	Type Test Certific- ates/Test Report	<u>Confirmation</u>	1			
Further information Siemens has decided to	avit the Russian mark	(at (see here)				

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging https://support.industry.siemen com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

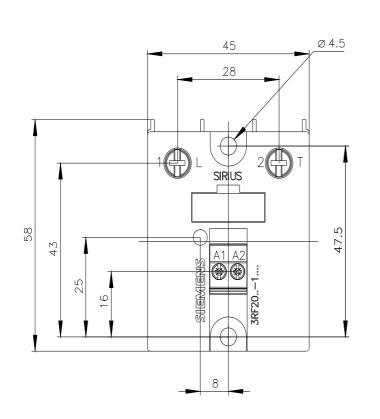
Industry Mall (Online ordering system)

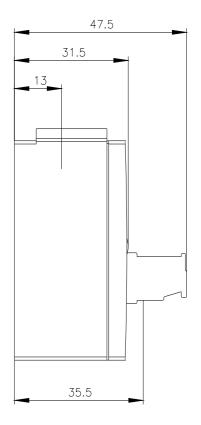
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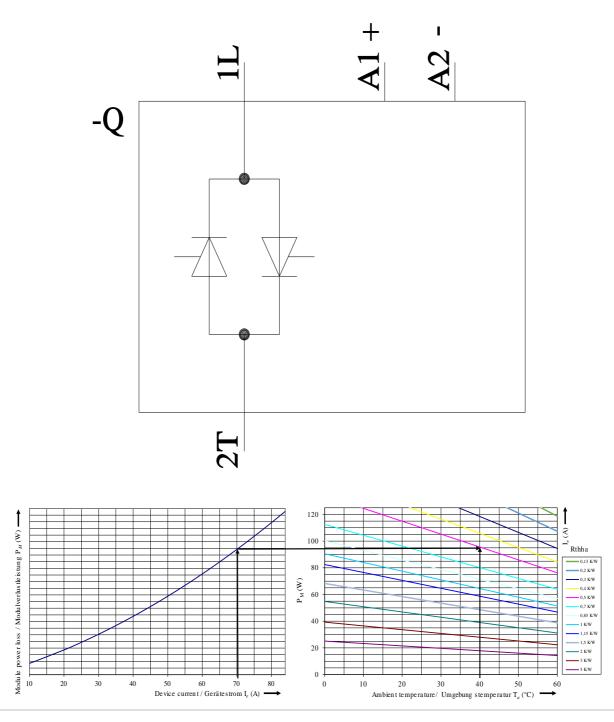
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2070-1AA04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2070-1AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2070-1AA04&lang=en







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