SIEMENS

Data sheet

3RF2390-3AA26

product brand name S	SIRIUS
product designation so	olid-state contactor
product type designation 3	RF23
manufacturer's article number	
• _1 of the accessories that can be ordered 3	RF2900-3PA88
• _4 of the accessories that can be ordered 3	RF2990-0GA36
product designation	
• _1 of the accessories that can be ordered te	erminal cover
• _4 of the accessories that can be ordered	pad monitoring
General technical data	
product function ze	ero-point switching
power loss [W] for rated value of the current	
• at AC in hot operating state	17 W
• at AC in hot operating state per pole 1	17 W
without load current share typical	5.5 W
insulation voltage rated value 60	300 V
degree of pollution 3	
type of voltage of the control supply voltage A	NC .
surge voltage resistance of main circuit rated value 6	5 kV
shock resistance according to IEC 60068-2-27	5g / 11 ms
vibration resistance according to IEC 60068-2-6 2	g
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date) 0	17/01/2006
Main circuit	
number of poles for main current circuit 1	
number of NO contacts for main contacts	
number of NC contacts for main contacts 0	
operating voltage at AC	
	8 600 V
• at 60 Hz rated value 44	8 600 V
operating frequency rated value 5	i0 60 Hz
operating range relative to the operating voltage at AC	
	0 660 V
• at 60 Hz 44	0 660 V
operational current	
at AC-51 rated value	8 A
• at AC-51 according to IEC 60947-4-3 88	8 A
according to UL 508 rated value	0 A
operational current minimum 50	00 mA
rate of voltage rise at the thyristor for main contacts 1 maximum permissible	000 V/µs
blocking voltage at the thyristor for main contacts 1 maximum permissible	600 V
· · · · · · · · · · · · · · · · · · ·	0 mA
	0° 0
	150 A
I2t value maximum 6	600 A ² ·s
Control circuit/ Control	
type of voltage of the control supply voltage	٨C
control supply voltage 1 at AC	
	10 230 V
• at 60 Hz 1	10 230 V

control cupply voltage frequency	
control supply voltage frequency 1 rated value 	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	00112
at 50 Hz full-scale value for signal<0> recognition	40 V
 at 60 Hz full-scale value for signal recognition 	40 V
control supply voltage	
 at AC initial value for signal <1> detection 	90 V
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
control current at AC rated value	15 mA
ON-delay time	40 ms; additionally max. one half-wave
OFF-delay time	40 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	200 mm
height	200 mm
width	180 mm 163 mm
depth	103 1111
Connections/ Terminals	
type of electrical connection • for main current circuit	Ring cable lug connection
for auxiliary and control circuit	ring terminal lug connection
type of connectable conductor cross-sections	
for main contacts for JIS cable lug	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
for DIN cable lug for main contacts	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
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 without core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 at AWG cables for auxiliary and control contacts 	1x (AWG 20 12)
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type 	0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	4.5 5.3 lbf in
 for auxiliary and control contacts with screw-type terminals 	
design of the thread of the connection screw	
for main contacts	M5
 of the auxiliary and control contacts 	M3
stripped length of the cable	
for main contacts	10 mm
 for auxiliary and control contacts 	10 mm
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
 during storage 	-55 +80 °C
Electromagnetic compatibility	
conducted interference	

 due to burst ac 	cording to IEC 61000-4-	4	2 kV / 5 kHz behavior cr	iterion 2		
	or-earth surge according		2 kV behavior criterion 2			
 due to conduct 61000-4-5 	or-conductor surge acco	ording to IEC	1 kV behavior criterion 2			
 due to high-free 61000-4-6 	due to high-frequency radiation according to IEC 61000-4-6			140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1		
field-based interfere	field-based interference according to IEC 61000-4-3			80 MHz 1 GHz 10 V/m, 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			
field-bound HF inter CISPR11	field-bound HF interference emission according to CISPR11			Class B for the domestic, business and commercial environments		
Short-circuit protecti	on, design of the fuse	link				
manufacturer's article	e number					
	 of full range R fuse link for semiconductor protection at NH design usable 		<u>3NE1020-2;</u> These fuses have a smaller rated current than the semiconductor relays			
 of back-up R fu at NH design usa 		or semiconductor protection <u>3NE8021-1</u>				
	 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 			<u>3NC2280;</u> These fuses have a smaller rated current than the semiconductor relays		
Certificates/ approva	ls					
General Product A	oproval			EMC	Declaration of Conformity	
SA SA	<u>Confirmation</u>	(ال س	EAC	RCM	CE EG-Konf.	
Declaration of	Test Certificates	other				
Conformity						

Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2390-3AA26

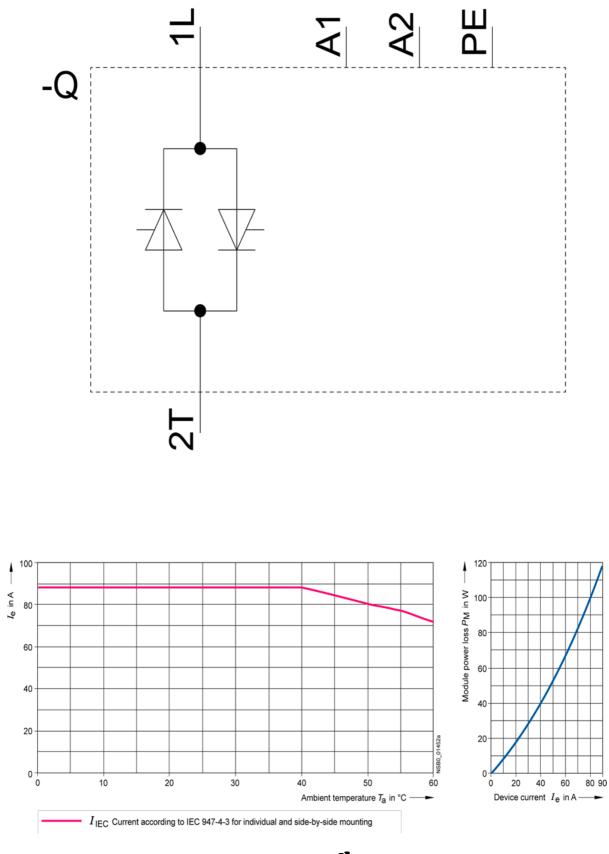
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2390-3AA26

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2390-3AA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2390-3AA26&lang=en



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