SIEMENS

Data sheet

3RF2310-1BA22



Solid-state contactor 1-phase 3RF2 AC 15 / 6 A / 40 $^\circ\text{C}$ 24-230 V / 110-230 V AC Instantaneous switching

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
 _1 of the accessories that can be ordered 	<u>3RF2900-3PA88</u>
 _2 of the accessories that can be ordered 	<u>3RF2920-0HA33</u>
 _4 of the accessories that can be ordered 	<u>3RF2920-0GA33</u>
product designation	
 _1 of the accessories that can be ordered 	terminal cover
 _2 of the accessories that can be ordered 	power regulator
 _4 of the accessories that can be ordered 	load monitoring
General technical data	
product function	instantaneous switching
power loss [W] for rated value of the current without load current share typical	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	AC
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	29
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	24 230 V
 at 60 Hz rated value 	24 230 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
• at 50 Hz	20 253 V
• at 60 Hz	20 253 V
operational current	
 at AC-51 rated value 	10.5 A
 at AC-51 according to IEC 60947-4-3 	7.5 A
 according to UL 508 rated value 	6 A
operational current minimum	100 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	500 V/µs

blocking voltage at the thyristor for main contacts	800 V
maximum permissible	
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	200 A
I2t value maximum	200 A ² ·s
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency 1 rated value 	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	
 at 50 Hz full-scale value for signal<0> recognition 	40 V
• at 60 Hz full-scale value for signal<0> 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
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 number of CO contacts for auxiliary contacts	0 0
Installation/ mounting/ dimensions	0
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm
	according to IEC 60715
 side-by-side mounting 	Yes
height	95 mm
width	22.5 mm
depth	88 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
at AWG cables for main contacts	2x (14 10)
connectable conductor cross-section for main	
contacts	45 0 mm2
 solid or stranded finally stranded with core and processing 	1.5 6 mm ²
 finely stranded with core end processing type of connectable conductor cross-sections 	1 10 mm²
for auxiliary and control contacts	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded with core end processing 	$1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.0 \text{ mm}^2)$
— finely stranded without core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
• at AWG cables for auxiliary and control contacts	1x (AWG 20 12)
AWG number as coded connectable conductor cross	10 14
section for main contacts	
tightening torque • for main contacts with screw-type terminals	2 2.5 N·m
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 	2 2.5 N·m 0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	18 22 lbf·in
 for auxiliary and control contacts with screw-type 	4.5 5.3 lbf·in

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Conformity



Special Test Certificate <u>Type Test Certific-</u> <u>ates/Test Report</u> Confirmation



Vibration and Shock

Further information

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=3RF2310-1BA22

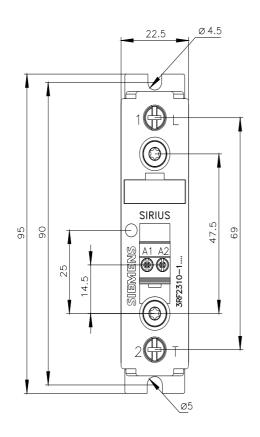
Cax online generator

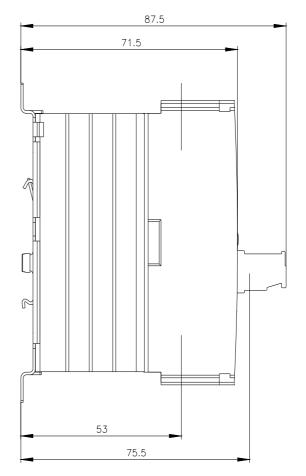
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2310-1BA22

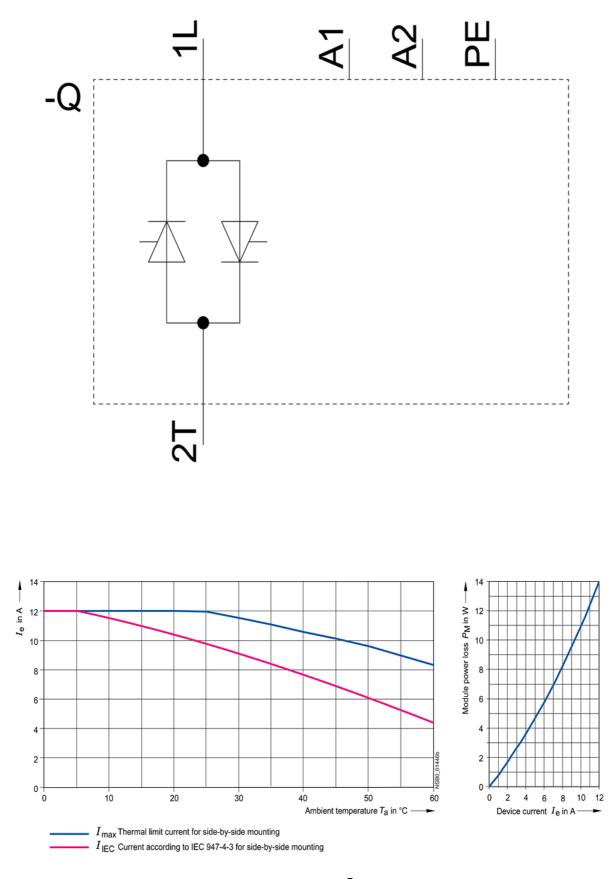
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2310-1BA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2310-1BA22&lang=en







last modified:

1/26/2022 🖸

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