SIEMENS

Data sheet 3RF2310-1BA26



Solid-state contactor 1-phase 3RF2 AC 15 / 6 A / 40 $^{\circ}\text{C}$ 48-600 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	3RF2900-3PA88
_2 of the accessories that can be ordered	3RF2920-0HA36
_4 of the accessories that can be ordered	3RF2920-0GA36
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	
 at AC in hot operating state 	11 W
 at AC in hot operating state per pole 	11 W
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	2g
reference code according to EN 61346-2	Q
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	48 600 V
at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
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	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	1 000 V/μs		
blocking voltage at the thyristor for main contacts maximum permissible	1 600 V		
reverse current of the thyristor	10 mA		
derating temperature	40 °C		
surge current resistance rated value	400 A		
I2t value maximum	800 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	0.774		
• 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	0		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts			
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	0		
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ertificates approvais		EMC	Declaration of Con-
at NH design usable certificates/ approvals	<u>3NA6803-6</u>		
manufacturer's article number of the gG fuse	3NA6803 6		
cylindrical design 22 x 58 mm usable			
 of back-up R fuse link for semiconductor protection at 	3NC2240		
of back-up R fuse link for semiconductor protection at	3NC1440		
of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable	3NC1032		
of back-up R fuse link for semiconductor protection at NH design usable	<u>3NE8015-1</u>		
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1316</u>		
 of gS fuse for semiconductor protection at NH design usable 	3NE1813-0		
manufacturer's article number			
Short-circuit protection, design of the fuse link			
field-bound HF interference emission according to CISPR11	Class B for the domestic, busin	ess and commercial envi	ronments
conducted HF interference emissions according to CISPR11	Class A for industrial environment		
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV		criterion 2
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, beha	avior criterion 1	
due to high-frequency radiation according to IEC 61000- 4-6	140 dBuV in the frequency rang	ge 0.15 80 MHz, behav	ior criterion 1
due to conductor-conductor surge according to IEC 61000-4-5	1 kV behavior criterion 2		
due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2		
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion	2	
conducted interference			
electromagnetic compatibility			
during storage	-55 +80 °C		
during operation	-25 +60 °C		
ambient temperature			
installation altitude at height above sea level maximum	1 000 m		
mbient conditions			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact	from the front	
protection class IP on the front according to IEC 60529	IP20		
afety related data			
 for auxiliary and control contacts 	7 mm		
• for main contacts	7 mm		
stripped length of the cable			
of the auxiliary and control contacts	M3		
• for main contacts	M4		
terminals design of the thread of the connection screw			
for auxiliary and control contacts with screw-type	4.5 5.3 lbf·in		
for main contacts with screw-type terminals	18 22 lbf·in		
terminals tightening torque [lbf-in]			
• for auxiliary and control contacts with screw-type	0.5 0.6 N·m		
for main contacts with screw-type terminals	2 2.5 N·m		
tightening torque			



Confirmation









Declaration of Conformity

Test Certificates other Railway





Further information

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.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=3RF2310-1BA26

Cax online generator

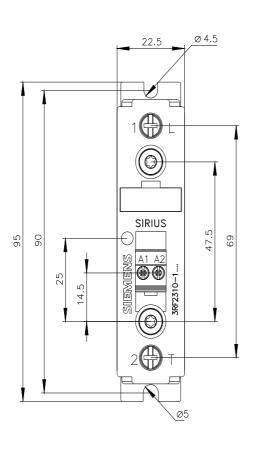
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2310-1BA26

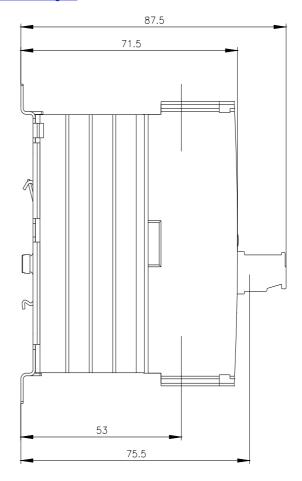
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

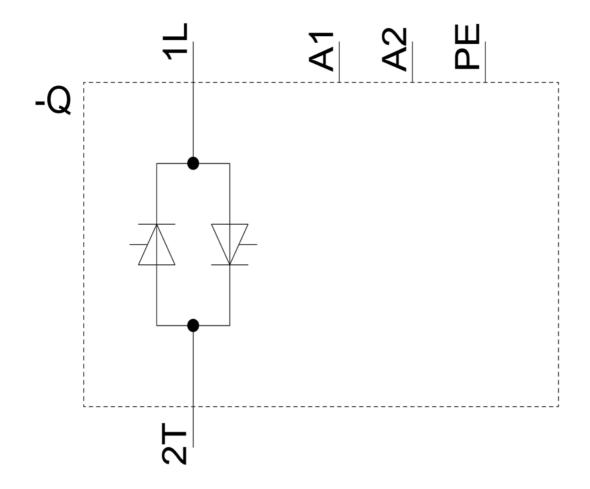
https://support.industry.siemens.com/cs/ww/en/ps/3RF2310-1BA26

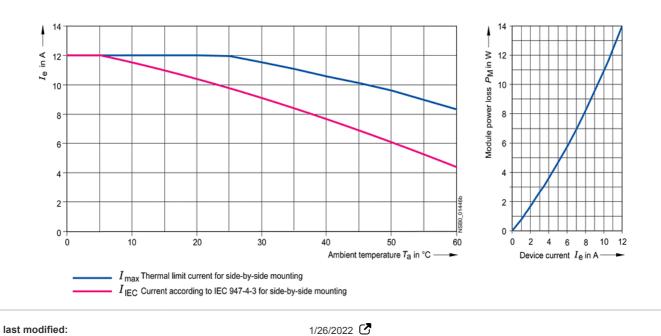
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

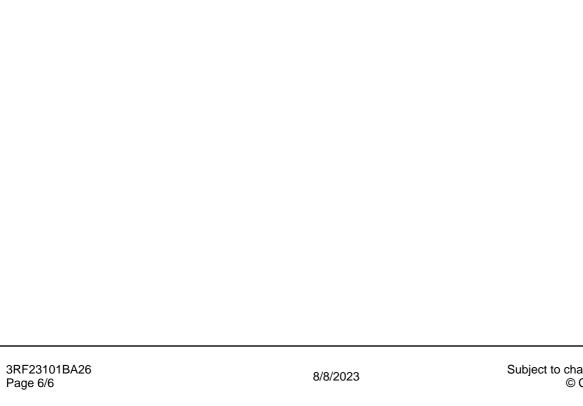
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2310-1BA26&lang=en











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