## SIEMENS

## Data sheet

## 3RF2340-1BA24

Solid-state contactor 1-phase 3RF2 AC 15 / 20 A / 40  $^\circ\text{C}$  48-460 V / 110-230 V AC Instantaneous switching

needuct brand name	SIRIUS
product brand name 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
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0HA36</u>
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	3RF2950-0GA36
product designation	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	power regulator
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
General technical data	
product function	instantaneous switching
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	44 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	44 W
<ul> <li>without load current share typical</li> </ul>	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 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	
<ul> <li>at 50 Hz rated value</li> </ul>	48 460 V
<ul> <li>at 60 Hz rated value</li> </ul>	48 460 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
• at 50 Hz	40 506 V
• at 60 Hz	40 506 V
operational current	
• at AC-51 rated value	40 A
• at AC-51 according to IEC 60947-4-3	33 A
<ul> <li>according to UL 508 rated value</li> </ul>	20 A

	500 m A
operational current minimum	500 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	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	1 200 A
l2t value maximum	7 200 A <sup>2</sup> ·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	10.11
• at 50 Hz full-scale value for signal<0> recognition	40 V 40 V
<ul> <li>at 60 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V
<ul> <li>control supply voltage</li> <li>at AC initial value for signal &lt;1&gt; detection</li> </ul>	90 V
• at AC initial value for signal < 1> detection symmetrical line frequency tolerance	90 V 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	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm
fastening method	according to IEC 60715
fastening method <ul> <li>side-by-side mounting</li> </ul>	according to IEC 60715 Yes
fastening method <ul> <li>side-by-side mounting</li> <li>design of the thread of the screw for securing the</li> </ul>	according to IEC 60715
fastening method <ul> <li>side-by-side mounting</li> <li>design of the thread of the screw for securing the equipment</li> </ul>	according to IEC 60715 Yes M4
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height	according to IEC 60715 Yes M4 100 mm
fastening method <ul> <li>side-by-side mounting</li> <li>design of the thread of the screw for securing the equipment</li> </ul>	according to IEC 60715 Yes M4
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width	according to IEC 60715 Yes M4 100 mm 67.5 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth	according to IEC 60715 Yes M4 100 mm 67.5 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals	according to IEC 60715 Yes M4 100 mm 67.5 mm
fastening method         • side-by-side mounting         design of the thread of the screw for securing the         equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm
fastening method         • side-by-side mounting         design of the thread of the screw for securing the         equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm
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fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup>
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts         — solid         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         e solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-section for main contacts         e solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         — solid         — finely stranded with core end processing         — solid         — finely stranded with core end processing         — finely stranded with core end processing         — finely stranded with core end processing         — finely st	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) 1.5 6 mm <sup>2</sup> $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts         — solid         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         ontacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         — finely stranded with core end processing         — finely stranded with core end processing         — finely st	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) 1.5 6 mm <sup>2</sup> $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts         — solid         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         ontacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         — finely stranded with core end processing         — finely stranded with core end processing         — finely st	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12)

<ul> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>nanufacturer's article number</li> <li>of DIAZED fuse usable</li> <li>of NEOZED fuse usable</li> </ul>	3NA6812; These fuses have semiconductor relays 3NW6112-1; These fuses have semiconductor relays 3NW6212-1; These fuses have semiconductor relays 5SB4111; These fuses have semiconductor relays 5SE2335; These fuses have semiconductor relays	ave a smaller rated curr ave a smaller rated curr a smaller rated current	ent than the ent than the t than the		
<ul> <li>at cylindrical design 22 x 58 mm usable</li> <li>nanufacturer's article number</li> <li>of DIAZED fuse usable</li> </ul>	3NA6812; These fuses have semiconductor relays 3NW6112-1; These fuses have semiconductor relays 3NW6212-1; These fuses have semiconductor relays 5SB4111; These fuses have semiconductor relays 5SE2335; These fuses have	ave a smaller rated curr ave a smaller rated curr a smaller rated current	ent than the ent than the t than the		
• at cylindrical design 22 x 58 mm usable nanufacturer's article number	3NA6812; These fuses have semiconductor relays 3NW6112-1; These fuses have semiconductor relays 3NW6212-1; These fuses have semiconductor relays 5SB4111; These fuses have	ave a smaller rated curr ave a smaller rated curr	ent than the ent than the		
• at cylindrical design 22 x 58 mm usable	3NA6812; These fuses have semiconductor relays 3NW6112-1; These fuses have semiconductor relays 3NW6212-1; These fuses ha	ave a smaller rated curr	ent than the		
	3NA6812; These fuses have semiconductor relays 3NW6112-1; These fuses have semiconductor relays 3NW6212-1; These fuses ha	ave a smaller rated curr	ent than the		
• at cylindrical design 14 x 51 mm usable	<u>3NA6812;</u> These fuses have semiconductor relays				
5		e a smaller rated curren	t than the		
at NH design usable	51402200				
at cylindrical design 22 x 58 mm usable nanufacturer's article number of the gG fuse	<u>51402200</u>				
• of back-up R fuse link for semiconductor protection	<u>3NC2280</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NC1450</u>	<u>3NC1450</u>			
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE8017-1</u>				
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>5SE1350</u>				
<ul> <li>nanufacturer's article number</li> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>	<u>3NE1802-0</u>				
ort-circuit protection, design of the fuse link					
ield-bound HF interference emission according to CISPR11	Class B for the domestic, bu	Class B for the domestic, business and commercial environments			
conducted HF interference emissions according to CISPR11	Class A for industrial enviror	nment			
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2				
ield-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, be				
<ul> <li>due to high-frequency radiation according to IEC 61000-4-6</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV behavior criterion 2	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 criterio	on 2			
conducted interference					
ectromagnetic compatibility					
<ul> <li>during operation</li> <li>during storage</li> </ul>	-25 +60 °C -55 +80 °C				
mbient temperature	25 ±60 °C				
nstallation altitude at height above sea level maximum	1 000 m				
nbient conditions					
ouch protection on the front according to IEC 60529	finger-safe, for vertical conta	act from the front			
protection class IP on the front according to IEC 0529	IP20				
fety related data					
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm				
• for main contacts	7 mm				
stripped length of the cable	IVIJ				
<ul> <li>for main contacts</li> <li>of the auxiliary and control contacts</li> </ul>	M4 M3				
lesign of the thread of the connection screw	N/4				
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	4.5 5.3 lbf·in				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf·in				
ightening torque [lbf·in]					
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.5 0.6 N·m				

	<u>Confirmation</u>		EHC	RCM	CE EG-Konf.
Declaration of Conformity	Test Certificates		other		Railway
UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>		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=3RF2340-1BA24

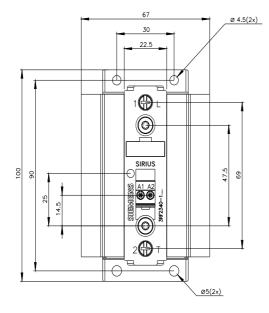
Cax online generator

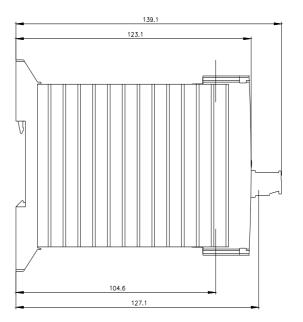
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2340-1BA24

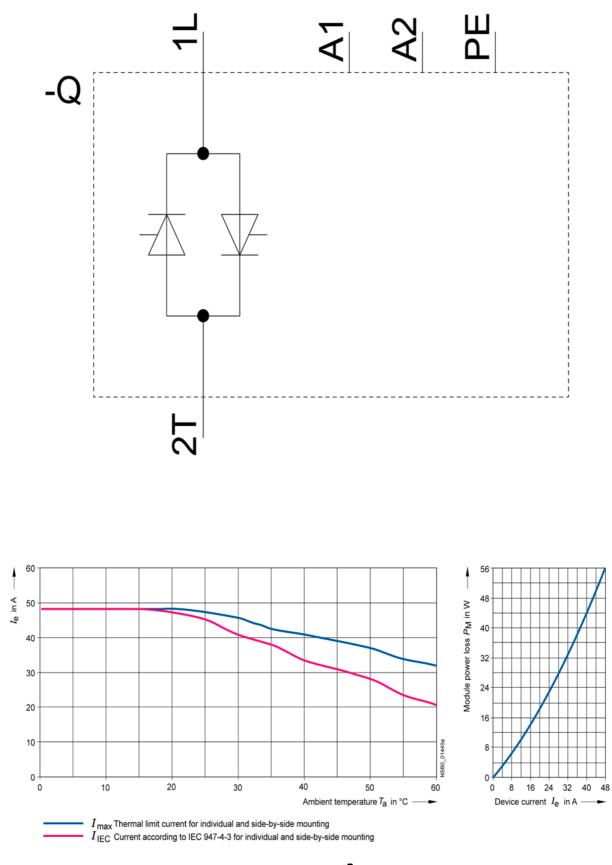
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-1BA24

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2340-1BA24&lang=en







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