SIEMENS

Data sheet

3RF2410-2AB45

	Solid-state contactor 3-phase 3RF2 AC 51 / 10 A / 40 °C 48-600 V / 4-30 V DC 2-phase controlled Spring-type terminal Blocking voltage 1200 V
product brand name	SIRIUS
•	
product designation	solid-state contactor
design of the product	two-phase controlled
product type designation	3RF24
manufacturer's article number	3052000 05418
• _2 of the accessories that can be ordered	<u>3RF2900-0EA18</u>
 product designation _2 of the accessories that can be ordered 	converter
General technical data	Converter
product function	zero-point switching
power loss [W] for rated value of the current	Zero-point switching
at AC in hot operating state	23 W
 at AC in hot operating state per pole 	7.67 W
without load current share typical	0.9 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	DC
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	29 Q
Substance Prohibitance (Date)	07/01/2006
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	2
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
relative symmetrical tolerance of the operating frequency	10 %
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 A
 according to UL 508 rated value 	7 A
operational current minimum	100 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	500 V/µs

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connectable conductor cross-section for main contacts	 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 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²)
contacts	 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 finely stranded without core end processing 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²)
 solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing finely stranded connectable conductor cross section for main contacts for main contacts for main contacts for auxiliary and control contacts for auxiliary and control contacts for auxiliar	 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 finely stranded without core end processing at AWG cables for main contacts 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²)
• finely stranded with core end processing0.5 1.5 mm²• finely stranded without core end processing0.5 2.5 mm²type of connectable conductor cross-sections• for auxiliary and control contacts solid0.5 1.5 mm²- finely stranded with core end processing0.5 2.5 mm²- finely stranded with core end processing0.5 2.5 mm²- finely stranded without core end processing10.5 2.5 mm²- finely stranded without core end processing10.5 2.5 mm²- finely stranded connectable conductor cross14 10Stripped length of the cable10 mm- for auxiliary and control contacts10 mmSafety related data10 mmStripped length of the cable10 mm- for auxiliary and control contacts1920Safety related dataIP20	 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 finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²)
 finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing finely stranded with core end processing finely stranded without cort cortacts finely stranded connectable conductor cross finely stranded connectable conductor cross for main contacts for main contacts for auxiliary and control contacts for auxiliary and control contacts for main contacts for auxiliary and control contacts for main contacts for auxiliary and control contacts for main contacts for auxiliary and control contacts for auxiliary and control contacts Safety related data protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front 	 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 finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14)
type of connectable conductor cross-sections • for auxiliary and control contacts - solid 0.5 1.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded without core end processing 0.5 2.5 mm² • at AWG cables for auxiliary and control contacts 1x (AWG 20 12) AWG number as coded connectable conductor cross section for main contacts 14 10 stripped length of the cable 10 mm • for auxiliary and control contacts 10 mm Safety related data 10 mm Safety related data IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 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 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ²
 for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing finger-safe, for vertical contact from the front 	 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 finely stranded with core end processing 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ²
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— finely stranded with core end processing $0.5 \dots 2.5 \text{ mm}^2$ — finely stranded without core end processing $0.5 \dots 2.5 \text{ mm}^2$ • at AWG cables for auxiliary and control contacts $1x (AWG 20 \dots 12)$ AWG number as coded connectable conductor cross $14 \dots 10$ section for main contacts 10 mm • for main contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for auxiliary and control contacts 10 mm • for class IP on the front according to IEC 60529IP20• for vertical contact from the front according to IEC 60529• finger-safe, for vertical contact from the front	 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 finely stranded with core end processing finely stranded with core end processing 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ²
 finely stranded without core end processing at AWG cables for auxiliary and control contacts tx (AWG 20 12) AWG number as coded connectable conductor cross section for main contacts stripped length of the cable for main contacts for auxiliary and control contacts 10 mm for auxiliary and control contacts 10 mm Safety related data protection class IP on the front according to IEC 60529 fouch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front 	 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 finely stranded with core end processing finely stranded with core end processing finely stranded without core section for main contacts finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary and control contacts	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm²
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AWG number as coded connectable conductor cross section for main contacts 14 10 stripped length of the cable 10 mm • for main contacts 10 mm • for auxiliary and control contacts 10 mm Safety related data 10 mm protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 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 finely stranded with core end processing for auxiliary and control contacts solid for auxiliary and control contacts solid finely stranded with core end processing 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ²
stripped length of the cable 10 mm • for main contacts 10 mm • for auxiliary and control contacts 10 mm Safety related data 10 mm protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 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 finely stranded with core end processing for auxiliary and control contacts solid finely stranded with core end processing for auxiliary and control contacts – solid finely stranded with core end processing 	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (18 14) 0.5 2.5 mm²
• for main contacts 10 mm • for auxiliary and control contacts 10 mm Safety related data 10 mm protection class IP on the front according to IEC IP20 60529 finger-safe, for vertical contact from the front	 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 finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing finely stranded with core end processing and control contacts 	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 1.5 mm² 0.5 2.5 mm² 1.5 mm²
 for auxiliary and control contacts Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front 	 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 finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing and control contacts solid finely stranded with core end processing at AWG cables for auxiliary and control contacts at AWG cables for auxiliary and control contacts 	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 1.5 mm² 0.5 2.5 mm² 1.5 mm²
Safety related data protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 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 finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing at auxiliary and control contacts solid finely stranded with core end processing at AWG cables for auxiliary and control contacts at AWG cables for auxiliary and control contacts 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1.5 2.5 mm ² 1x (AWG 20 12) 14 10
protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 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 connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid finely stranded with core end processing at AWG cables for auxiliary and control contacts asolid finely stranded without core end processing at AWG cables for auxiliary and control contacts asolid finely stranded without core end processing at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts stripped length of the cable for main contacts	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 14 10 10 mm
60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	 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 connectable conductor cross-section for main contacts asolid or stranded finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing for auxiliary and control contacts a solid finely stranded with core end processing a tawg cables for auxiliary and control contacts a solid finely stranded with core end processing at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts stripped length of the cable for main contacts for auxiliary and control contacts 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 14 10 10 mm
	 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 connectable conductor cross-section for main contacts asolid or stranded finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing for auxiliary and control contacts a solid finely stranded with core end processing a tawg cables for auxiliary and control contacts a solid finely stranded with core end processing at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts stripped length of the cable for main contacts for auxiliary and control contacts 	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 14 10 10 mm
Ambient conditions	 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 connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing for auxiliary and control contacts solid finely stranded with core end processing at AWG cables for auxiliary and control contacts a solid finely stranded with core end processing at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts stripped length of the cable for main contacts for auxiliary and control contacts Safety related data protection class IP on the front according to IEC	spring-loaded terminals 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²) 2x (0.5 2.5 mm ²) 2x (18 14) 0.5 2.5 mm ² 0.5 1.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 1x (AWG 20 12) 14 10 10 mm 10 mm
	 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 connectable conductor cross-section for main contacts a solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary and control contacts solid finely stranded with core end processing e for auxiliary and control contacts solid finely stranded with core end processing at AWG cables for auxiliary and control contacts wG number as coded connectable conductor cross section for main contacts stripped length of the cable for main contacts for auxiliary and control contacts Safety related data protection class IP on the front according to IEC 60529 	spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14) 0.5 2.5 mm² 1.5 mm²

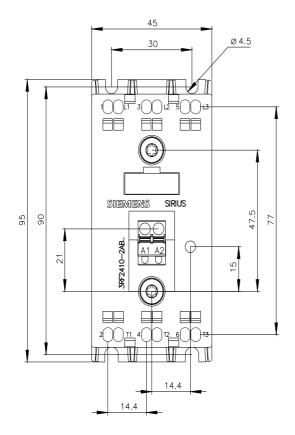
installation altitude at height above sea level maximum	1 000 m			
ambient temperature				
during operation	-25 +60 °C			
during storage	-55 +80 °C			
Electromagnetic compatibility				
conducted interference				
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2			
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2			
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2			
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 80 MHz, 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 interference emission according to CISPR11	Class A for industrial environment			
Short-circuit protection, design of the fuse link				
manufacturer's article number				
 of full range R fuse link for semiconductor protection at NH design usable 	<u>3NE1813-0</u>			
 of full range R fuse link for semiconductor protection at cylindrical design usable 	5SE1310; Maximum operating voltage 400 V!			
 of back-up R fuse link for semiconductor protection at NH design usable 	<u>3NE8015-1</u>			
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	<u>3NC1016</u>			
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	<u>3NC1420</u>			
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	<u>3NC2220</u>			
manufacturer's article number of the gG fuse at NH design usable				
• up to 460 V	<u>3NA3801;</u> These fuses have a smaller rated current than the semiconductor relays			
Certificates/ approvals				
General Product Approval		EMC	Declaration of Conformity	

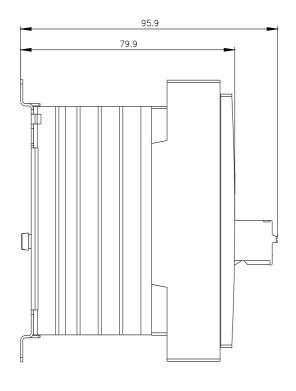


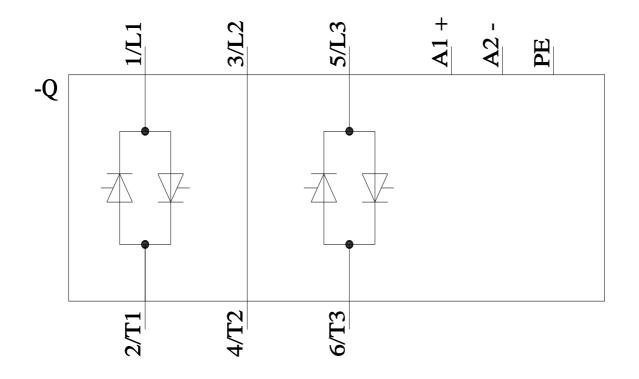


Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875	
Information- and Downloadcenter (Catalogs, Brochures,)	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2410-2AB45	
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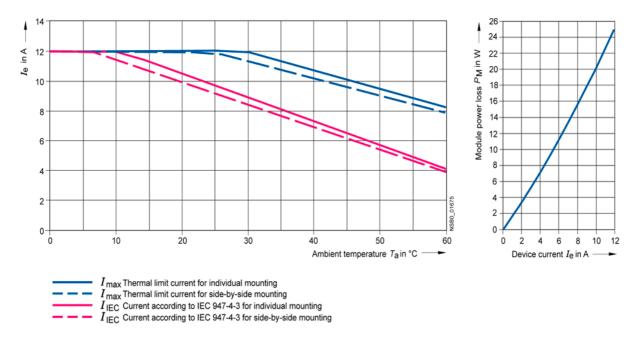
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2410-2AB45&lang=en







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