SIEMENS

Data sheet

3RF2440-1AC35

Solid-state contactor 3-phase 3RF2 AC 51 / 40 A / 40 $^\circ$ C 48-600 V / 110 V AC 3-phase controlled screw terminal Blocking voltage 1200 V

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	three-phase controlled
product type designation	3RF24
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
at AC in hot operating state	121 W
 at AC in hot operating state per pole 	40.33 W
without load current share typical	1.9 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)	07/01/2006
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
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 	40 A
 at AC-51 according to IEC 60947-4-3 	30 A
 according to UL 508 rated value 	30 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	1 150 A	
l2t value maximum	6 600 A ² ·s	
Control circuit/ Control		
type of voltage of the control supply voltage	AC	
control supply voltage 1 at AC		
• at 50 Hz	90 125 V	
• at 60 Hz	90 125 V	
control supply voltage frequency		
• 1 rated value	45 Hz	
• 2 rated value	66 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 	90 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	
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		
height	95 mm	
width	119.5 mm	
depth	130 mm	
-	130 1111	
Connections/ Terminals		
-		
Connections/ Terminals	screw-type terminals	
Connections/ Terminals type of electrical connection		
Connections/ Terminals type of electrical connection • for main current circuit	screw-type terminals	
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals screw-type terminals	
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	screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)	
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	screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
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	screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)	
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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	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)	
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	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 ²	
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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 connectable conductor cross-section for main contacts • 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 • for auxiliary and control contacts — solid — 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 connectable conductor cross section for main contacts AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque • for auxiliary and control contacts with 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12) 14 10 $2 2.5 N \cdot m$ $0.5 0.6 N \cdot m$	
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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 connectable conductor cross-section for main contacts • 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 • 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 without core end processing • for main contacts tightening torque • for	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 ² 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) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12) 14 10 2 2.5 N·m 0.5 0.6 N·m 18 22 lbf-in	

stripped length of the cable	
for main contacts	7 mm
 for auxiliary and control contacts 	7 mm
Safety related data	
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
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 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 conducted HF interference emissions according to CISPR11	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 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>3NE1802-0</u>
of full range R fuse link for semiconductor protection	5SE1350; Maximum operating voltage 400 V!
at cylindrical design usable • of back-up R fuse link for semiconductor protection	3NE8017-1
 at NH design usable of back-up R fuse link for semiconductor protection 	3NC1450
at cylindrical design 14 x 51 mm usable	
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	<u>3NC2280</u>
manufacturer's article number of the gG fuse at NH design	
usable	
• up to 460 V	<u>3NA3812</u> ; These fuses have a smaller rated current than the semiconductor relays
Certificates/ approvals	
General Product Approval	EMC Declaration of Conformity
Confirmation	COT 🔊 UK
U	EAL 💿 HR
CSM UL	
Declaration of	
Conformity Test Certificates other	
CF <u>Type Test Certific-</u> <u>Confirmation</u> ates/Test Report	
EG-Konf.	VDE
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=3RF2440-1AC35

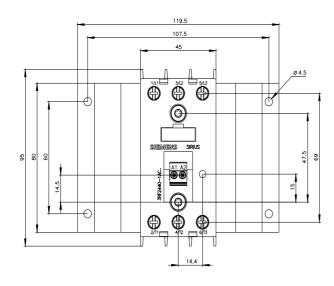
Cax online generator

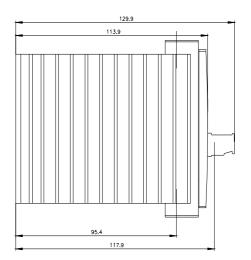
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2440-1AC35

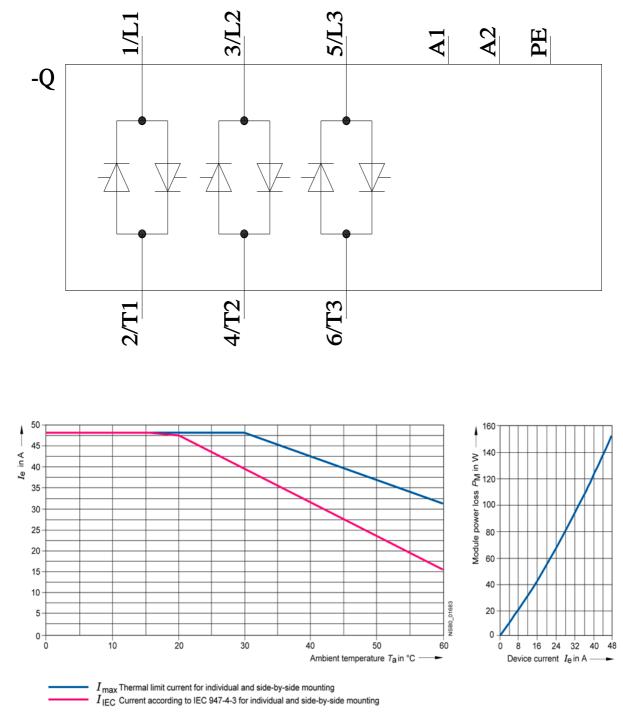
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2440-1AC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2440-1AC35&lang=en







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6/3/2021 🖸