SIEMENS

Data sheet 3RF2430-1AC35



Solid-state contactor 3-phase 3RF2 AC 51 / 30 A / 40 $^{\circ}$ C 48-600 V / 110 V AC 3-phase controlled screw terminal Blocking voltage 1200 V

product brand name product designation design of the product product type designation SIRIUS

solid-state contactor three-phase controlled

3RF24

General technical data		
product function	zero-point switching	
power loss [W] for rated value of the current		
 at AC in hot operating state 	91 W	
 at AC in hot operating state per pole 	30.33 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		

Q
07/01/2006
3
3
0
48 600 V
48 600 V
50 60 Hz
10 %
40 660 V
40 660 V
30 A
22 A
22 A
500 mA
1 000 V/μs
1 200 V
10 mA
40 °C

Izt value maximum	surge current resistance rated value	1 200 A
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type of electrical connection	depth	128 mm
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 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw 		
 for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw 0.5 0.6 N·m 18 22 lbf·in 7.5 5.3 lbf·in 		2 25 N·m
terminals tightening torque [lbf·in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw 18 22 lbf·in 7.5 5.3 lbf·in		
tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw 18 22 lbf-in 7.5 5.3 lbf-in	, , , , , , , , , , , , , , , , , , , ,	0.0 0.0 IT III
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw 18 22 lbf·in 7.5 5.3 lbf·in 		
 for auxiliary and control contacts with screw-type terminals design of the thread of the connection screw 		18 22 lbf·in
design of the thread of the connection screw		7.5 5.3 lbf·in
• for main contacts M4	_	
	for main contacts	M4

 of the auxiliary and control contacts 	M3
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 ambient temperature	1 000 m
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>3NE1803-0</u>
 of full range R fuse link for semiconductor protection at cylindrical design usable 	5SE1335; Maximum operating voltage 400 V!
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE8003-1
 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 cylindrical design 14 x 51 mm usable 	3NC1450
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2280
manufacturer's article number of the gG fuse at NH design usable	

3NA3812

• up to 460 V Certificates/ approvals

General Product Approval EMC



Confirmation









Declaration of

Conformity

Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation



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=3RF2430-1AC35

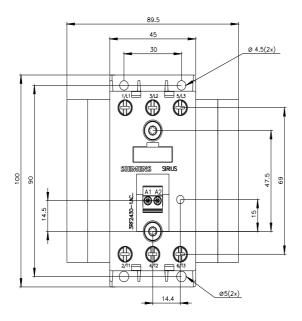
Cax online generator

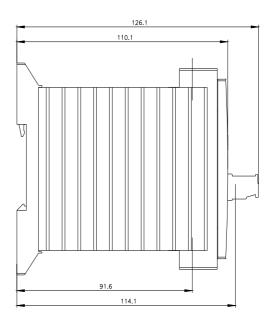
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2430-1AC35

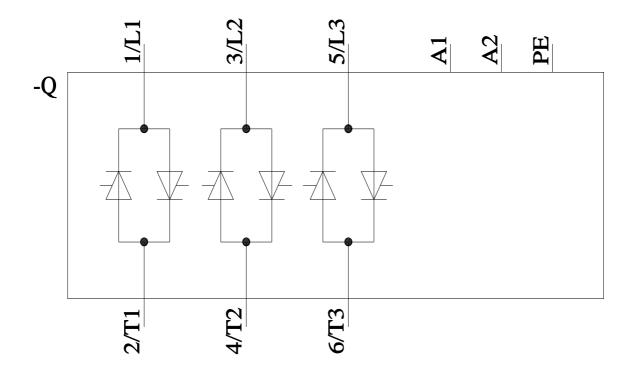
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

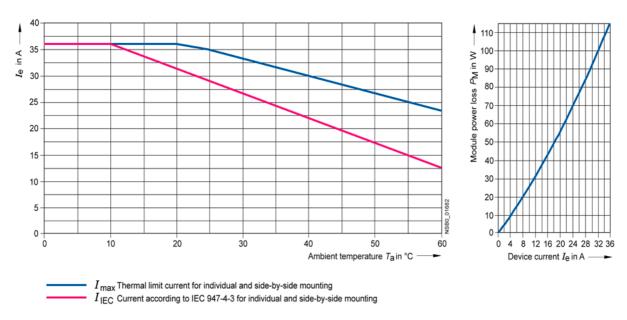
https://support.industry.siemens.com/cs/ww/en/ps/3RF2430-1AC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2430-1AC35&lang=en









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