



SEMI-CONDUCTOR CONTAC.3-PH.3RF2 AC51 10A
 40 DEG. C 48-600V / 4-30V DC 3-PHASE
 CONTROLLED SPRING-LOADED CONNECTION
 BLOCKING VOLTAGE 1200V

Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		solid-state contactor
Product function		zero-point switching
Number of poles for main current circuit		3
Protection class IP		IP20
Product designation _2 of the accessories that can be ordered		converter
Manufacturer article number _2 of the accessories that can be ordered		3RF2900-0EA18
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude at height above sea level maximum	m	1 000
Vibration resistance acc. to IEC 60068-2-6		2g
Shock resistance acc. to IEC 60068-2-27		15g / 11 ms
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking acc. to DIN EN 61346-2		Q
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		0
Number of CO contacts for auxiliary contacts		0
Main circuit:		
Number of NO contacts for main contacts		3
Number of NC contacts for main contacts		0

Operating current		
• at AC-1 at 400 V Rated value	A	10
• at AC-51 Rated value	A	10
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Operating current minimum	mA	500
Surge current resistance Rated value	A	300
I²t value maximum	A ² ·s	450
Operating voltage with AC		
• at 50 Hz Rated value	V	48 ... 600
• at 60 Hz Rated value	V	48 ... 600
Operating range relative to the operating voltage with AC		
• at 50 Hz	V	40 ... 660
• at 60 Hz	V	40 ... 660
Operating frequency Rated value	Hz	50 ... 60
Relative symmetrical tolerance of the operating frequency	%	10
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/μs	500
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200
Short-circuit protection, design of the fuse link		

Control circuit/ Control:

Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC	V	4 ... 30
Control supply voltage		
• for DC Full-scale value for signal<0> recognition	V	1
Symmetrical line frequency tolerance	Hz	5
Control current		
• at minimum control supply voltage		
— for DC	mA	2
• for DC Rated value	mA	30

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Mounting type Side-by-side mounting		Yes
Design of the thread of the screw for securing the equipment		M4

Tightening torque of the screw for securing the equipment	N·m	1.5
Width	mm	45
Height	mm	100
Depth	mm	104.5

Connections/ Terminals:

Type of electrical connection for main current circuit		spring-loaded terminals
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing • for AWG conductors <ul style="list-style-type: none"> — for main contacts — for auxiliary and control contacts • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing 		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (18 ... 14) 1x (AWG 20 ... 12) 0.5 ... 1.5 mm ² 0.5 ... 2.5 mm ² 0.5 ... 2.5 mm ²
Connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing • for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded <ul style="list-style-type: none"> — with core end processing — without core end processing 	mm ² mm ² mm ² mm ² mm ² mm ²	0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 1.5 0.5 ... 2.5 0.5 ... 2.5
AWG number as coded connectable conductor cross section for main contacts		14 ... 10
Type of electrical connection for auxiliary and control current circuit		spring-loaded terminals
AWG number as coded connectable conductor cross section for auxiliary and control contacts		20 ... 12
Wire stripping length of the cable		
<ul style="list-style-type: none"> • for main contacts • for auxiliary and control contacts 	mm mm	10 10

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity	Test Certificates
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[Type Test Certificates/Test Report](#)

other

[Environmental Confirmations](#)

Further information

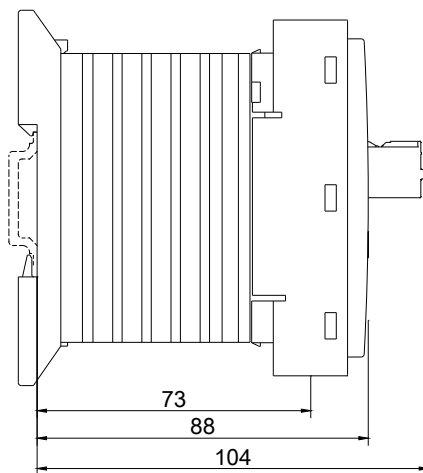
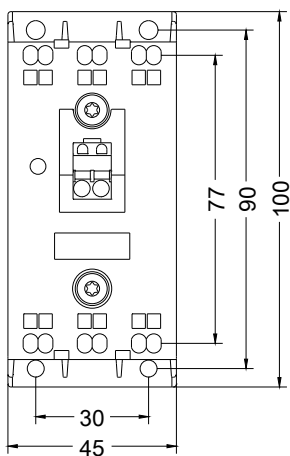
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
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last modified:

09.03.2015