SIEMENS

Data sheet

3RF23 30-1DA04-0KN0



SEMI-COND. CONTACTOR 3RF2,1-PH. AC51 30 A 40 DEG. C 48-460 V / 24V DC LOW POWER SHORT CIRC. PROOF UP TO 25 A WITH B-AUTOMAT

General technical data:		
product brand name		SIRIUS
Product designation		solid-state contactor
Product function		short-circuit resistant with B-automatic device
Number of poles for main current circuit		1
Protection class IP		IP20
Product designation _1 of the accessories that can be ordered		terminal cover
Manufacturer article number _1 of the accessories that can be ordered		<u>3RF2900-3PA88</u>
Product designation _3 of the accessories that can be ordered		converter
Manufacturer article number _3 of the accessories that can be ordered		<u>3RF2900-0EA18</u>
Product designation _4 of the accessories that can be ordered		load monitoring
Manufacturer article number _4 of the accessories that can be ordered		3RF2950-0GA16
Product designation _5 of the accessories that can be ordered		load monitoring, basis
Manufacturer article number _5 of the accessories that can be ordered		<u>3RF2920-0FA08</u>
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	-	-5 15g / 11 ms
Equipment marking acc. to DIN 40719 extended	-	K
according to IEC 204-2 acc. to IEC 750		
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	_	1
Number of NC contacts for main contacts	-	0
Operating current	-	0
	А	30
• at AC-1 at 400 V Rated value		
• at AC-51 Rated value	A	30
Operating current of the MCB with AC Rated value	A	25
Operating current minimum	mA	500
Operating voltage with AC		
• at 50 Hz Rated value	V	48 460
• at 60 Hz Rated value	V	48 460
Operating range relative to the operating voltage with AC		
● at 50 Hz	V	40 506
• at 60 Hz	V	40 506
Operating frequency Rated value	Hz	50 60
Insulation voltage Rated value	V	600
Rate of voltage rise at the thyristor for main contacts maximum permissible	V/µs	1 000
Blocking voltage at the thyristor for main contacts maximum permissible	V	1 200
Reverse current of the thyristor	mA	10
Derating temperature	°C	40
Active power loss total typical	W	33
Surge current resistance Rated value	А	1 150
I2t value maximum	A².s	6 600
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• for DC		
— Initial rated value	V	15
— Final rated value	V	24
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	22.5
Height	mm	100
Depth	mm	140.5

Connections/ Terminals:		
Type of electrical connection for main current circuit		screw-type terminals
Design of the thread of the connection screw for main contacts		M4
Tightening torque for main contacts with screw-type terminals	N∙m	2 2.5
Tightening torque [lbf·in] for main contacts with screw-type terminals	lbf∙in	18 22
Type of connectable conductor cross-section for main contacts		
• solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
 finely stranded 		
— with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
Type of connectable conductor cross-section		
 for AWG conductors 		
— for main contacts		2x (14 10)
— for auxiliary and control contacts		1x (AWG 20 12)
Type of connectable conductor cross-section for auxiliary and control contacts	_	
• solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded 		
— with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— without core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Connectable conductor cross-section	-	
• for main contacts		
— single or multi-stranded	mm²	1.5 6
— finely stranded		
— with core end processing	mm²	1 10
 for auxiliary and control contacts 		
— solid	mm²	0.5 2.5
— finely stranded		
— with core end processing	mm²	0.5 2.5
- without core end processing	mm²	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		screw-type terminals
Design of the thread of the connection screw of the auxiliary and control contacts		M3
AWG number as coded connectable conductor cross section for auxiliary and control contacts		20 12
Wire stripping length of the cable		
 for main contacts 	mm	7
 for auxiliary and control contacts 	mm	7
Tightening torque for auxiliary and control contacts with screw-type terminals	N∙m	0.5 0.6
Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	lbf∙in	4.5 5.3

Certificates/ appr	ovals:				
General Prod	uct Approval		EMC	Declaration of	Test
				Conformity	Certificates
(SA)		EHC	С-тіск	EG-Konf.	Special Test Certificate

Test	other
Certificates	
Type Test	Environmental
Certificates/Test	Confirmations
Report	

Further information

Short-circuit protection, design of the fuse link https://www.automation.siemens.com/cd-static/material/info/3RF23_eng.pdf

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

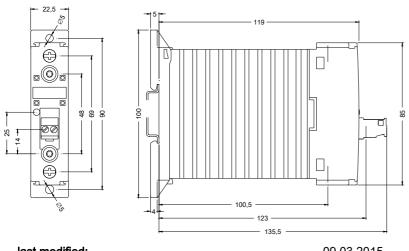
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23301DA040KN0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF23301DA040KN0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF23301DA040KN0&lang=en



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