SIEMENS

Data sheet

3RF24 20-1AC55



SEMI-CONDUCTOR CONTAC.3-PH.3RF2 AC51 20A 40 DEG. C 48-600V / 230V AC 3-PHASE CONTROLLED SCREW TERMINAL BLOCKING VOLTAGE 1200V

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 Ambient temperature - • during operation °C • during storage °C • during storage °C • during storage °C Shock resistance acc. to IEC 60068-2-6 2g Shock resistance acc. to IEC 60068-2-7 15g / 11 ms Equipment marking acc. to DIN 40719 extended 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 NO contacts for main contacts 3 Number of NO contacts for main contacts 0 Mumber of NC contacts for main contacts 0 Number of NC contacts for main contacts 0 Operating current - • at AC-1 at 400 V Rated value A 20 • at AC-51 Rated value A 20	General technical data:		
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	 at 50 Hz at 60 Hz Control supply voltage frequency 1 Rated value 2 Rated value Control supply voltage at 50 Hz Full-scale value for signal<0> recognition at 60 Hz Full-scale value for signal<0> recognition at 60 Hz Full-scale value for signal<0> recognition Bymmetrical line frequency tolerance 	V Hz Hz V V	180 230 45 66 180 180 5
with AC Rated value mA 15	 at 50 Hz at 60 Hz Control supply voltage frequency 1 Rated value 2 Rated value Control supply voltage with AC at 50 Hz Full-scale value for signal<0> recognition at 60 Hz Full-scale value for signal<0> recognition Symmetrical line frequency tolerance Relative symmetrical tolerance of the supply voltage frequency Control current 	V Hz Hz V V	180 230 45 66 180 180 5
	 at 50 Hz at 60 Hz Control supply voltage frequency 1 Rated value 2 Rated value Control supply voltage with AC at 50 Hz Full-scale value for signal<0> recognition at 60 Hz Full-scale value for signal<0> recognition at 60 Hz Full-scale value for signal<0> recognition Symmetrical line frequency tolerance Relative symmetrical tolerance of the supply voltage frequency Control current at minimum control supply voltage 	V Hz Hz V Hz %	180 230 45 66 180 180 5 10

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	90
Height	mm	100
Depth	mm	112.5

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 (0.5 2.5 mm²)
— finely stranded		
— with core end processing		2x (0.5 1.5 mm²)
- without core end processing		2x (0.5 2.5 mm²)
 for AWG conductors 		
— for main contacts		2x (18 14)
— for auxiliary and control contacts		1x (AWG 20 12)
 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	0.5 2.5
— finely stranded		
— with core end processing	mm²	0.5 1.5
- without core end processing	mm²	0.5 2.5
 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	7.5 5.3

Certificates/ appr General Prod		EMC	Declaration of Conformity	Test Certificates
(SA)	EHC	С-тіск	EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>

other			
Environmental			
Confirmations			

Further information

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

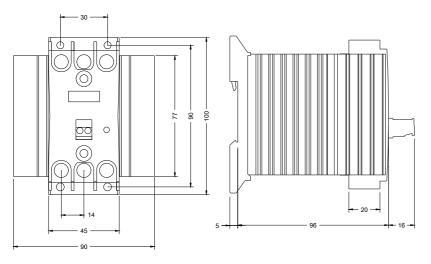
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF24201AC55

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF24201AC55/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RF24201AC55&lang=en



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