# **SIEMENS**

Product data sheet 3RV2031-4WA10



CIRCUIT BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 42...52A, N-RELEASE 741A, SCREW TERMINAL, STANDARD BREAKING CAPACITY

A	
General technical data:	
product brand name	SIRIUS
Product designation	3RV2 circuit breaker
Size of the circuit-breaker	S2
Size of contactor / can be combined / company-specific	S2
Number of poles / for main current circuit	3
Product function	
Short circuit protection	Yes
overload protection	Yes
Phase failure detection	Yes
• motor protection	Yes
Disconnector functionality	Yes
<ul> <li>Main switches with supply disconnect function and EM-STOP switches</li> </ul>	Yes
Design of the operating mechanism	selector switch
Product component	
Auxiliary switch	No
undervoltage release	No
Trip indicator	No
Product expansion	
Auxiliary switch	Yes

optional / motor drive		No
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Surge voltage resistance / Rated value	kV	6
Protection class IP		
of the terminal		IP00
• on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at height above sea level / maximum	m	2,000
Relative humidity		
during operation	%	10 95
Ambient temperature		
during transport	°C	-50 +80
during storage	°C	-50 +80
during operation	°C	-20 +60
Shock resistance / acc. to IEC 60068-2-27		25g / 11 ms Sinus
Usage category		
• acc. to IEC 60947-4-1		AC-3
• acc. to IEC 60947-2		A
Active power loss / total / typical	W	17
Main circuit:		
Operating current / Rated value	Α	52
Operating voltage / Rated value	V	690
Type of voltage / for main current circuit		AC/DC
Operating frequency		
Rated value	Hz	50 60
Operating current / at AC-3 / at 400 V / Rated value	Α	52

Protective and monitoring functions:		
Design of the overload circuit breaker		thermal
Adjustable response value current / of the current-dependent overload release	А	42 52
Trip class		CLASS 10
Design of the short-circuit trip		magnetic
Response value current / of the instantaneous short-circuit release	А	741
Operational short-circuit current breaking capacity (lcs) / with AC		
• at 240 V / Rated value	Α	100
• at 400 V / Rated value	kA	30
• at 500 V / Rated value	kA	4

• at 690 V / Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)		
• with AC / at 240 V / Rated value	kA	100
• with AC / at 400 V / Rated value	kA	65
• with AC / at 500 V / Rated value	kA	8
• with AC / at 690 V / Rated value	kA	4
Design of the fuse link / for IT network / for short-circuit protection of the main circuit		
• at 240 V		none required
• at 500 V		125
• at 690 V		100

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position		any
Depth	mm	149
Height	mm	140
Width	mm	55

Connections/ terminals:		
Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection / for main current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
• single or multi-stranded		2x (1 35 mm²), 1x (1 50 mm²)
• finely stranded		
<ul> <li>with core end processing</li> </ul>		2x (1 25 mm²), 1x (1 35 mm²)
• for AWG conductors / for main contacts		2x (18 2), 1x (18 1)

UL/CSA ratings:		
Operating voltage / acc. to UL 60947 / Rated value	V	600
Full-load current (FLA) / for three-phase AC motor		
• at 480 V / Rated value	Α	52
• at 600 V / Rated value	А	52

## Certificates/ approvals:

General Product Approval other



Confirmation

### **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

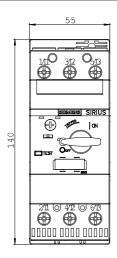
http://www.siemens.com/cax

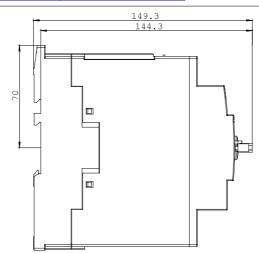
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RV2031-4WA10/all

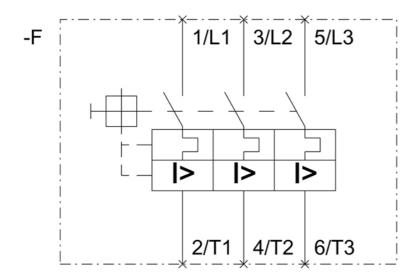
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2031-4WA10









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