



CIRCUIT BREAKER, SIZE S2,
FOR MOTOR PROTECTION, CLASS 20,
A-RELEASE 22...32A, N-RELEASE 416A,
SCREW TERMINAL,
STANDARD BREAKING CAPACITY W. TRANSV. AUX.
SWITCH 1NO+1NC

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
• Disconnecter functionality		Yes
• Main switches with supply disconnect function and EM-STOP switches		Yes
Design of the operating mechanism		selector switch
Product component		
• Auxiliary switch		Yes
• 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	14

Main circuit:

Operating current / Rated value	A	32
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	A	32

Hilfsstromkreis

Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A)
--	--	---

Protective and monitoring functions:

Certificate of suitability / ATEX		Yes
Design of the overload circuit breaker		thermal
Adjustable response value current / of the current-dependent overload release	A	22 ... 32
Trip class		CLASS 20
Design of the short-circuit trip		magnetic
Response value current / of the instantaneous short-circuit release	A	416

Operational short-circuit current breaking capacity (Ics) / with AC • at 240 V / Rated value • at 400 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA	100
	kA	30
	kA	5
	kA	2
Maximum short-circuit current breaking capacity (Icu) • with AC / at 240 V / Rated value • with AC / at 400 V / Rated value • with AC / at 500 V / Rated value • with AC / at 690 V / Rated value	kA	100
	kA	65
	kA	10
	kA	4
Design of the fuse link / for IT network / for short-circuit protection of the main circuit • at 240 V • at 500 V • at 690 V		none required
		100
		80

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 • finely stranded • with core end processing • for AWG conductors / for main contacts		2x (1 ... 25 mm²), 1x (1 ... 35 mm²)
		2x (1 ... 16 mm²), 1x (1 ... 25 mm²)
		2x (18 ... 3), 1x (18 ... 2)
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section • for auxiliary contacts • single or multi-stranded • finely stranded • with core end processing • for AWG conductors / for auxiliary contacts		2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)
		2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
		2x (20 ... 16), 2x (18 ... 14)

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	A	32
• at 600 V / Rated value	A	32
Contact rating / of the auxiliary contacts / acc. to UL		C300 / R300

Certificates/ approvals:

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

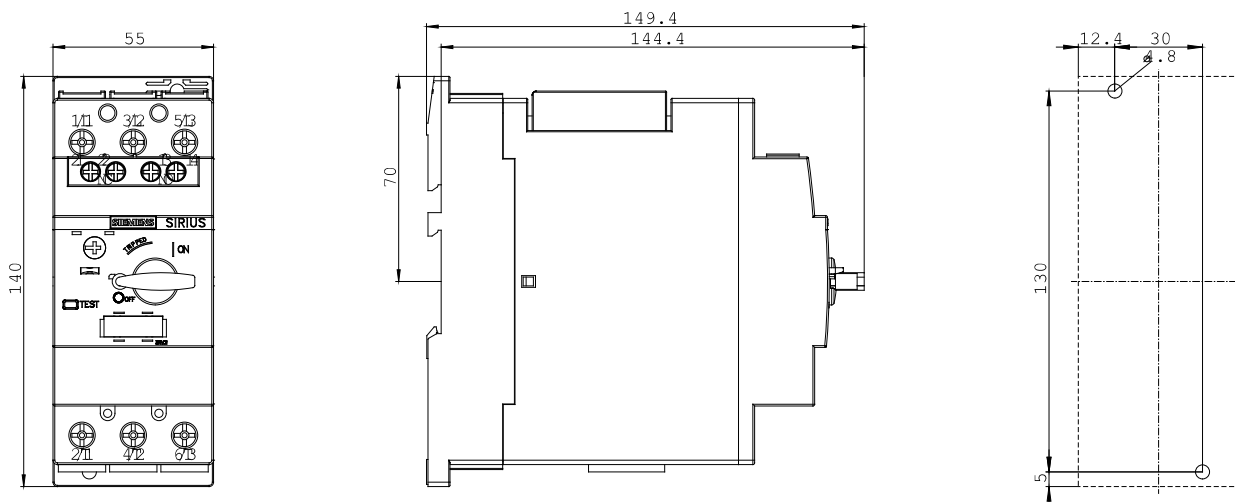
<http://www.siemens.com/cax>

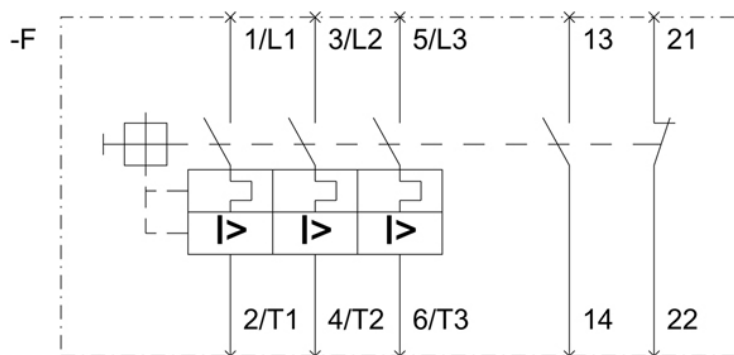
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2031-4EB15/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2031-4EB15





last change:

Nov 20, 2014