



CIRCUIT BREAKER SIZE S2,
FOR MOTOR PROTECTION, CLASS 20,
A-REL. 22...32A, N-REL. 416A,
SCREW TERMINAL,
STANDARD BREAKING CAPACITY

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		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	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

Protective and monitoring functions:

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	A	100
• at 400 V / Rated value	kA	30
• at 500 V / Rated value	kA	5

<ul style="list-style-type: none"> • at 690 V / Rated value 	kA	2
Maximum short-circuit current breaking capacity (Icu)		
<ul style="list-style-type: none"> • with AC / at 240 V / Rated value 	kA	100
<ul style="list-style-type: none"> • with AC / at 400 V / Rated value 	kA	65
<ul style="list-style-type: none"> • with AC / at 500 V / Rated value 	kA	10
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • at 240 V 		none required
<ul style="list-style-type: none"> • at 500 V 		100
<ul style="list-style-type: none"> • at 690 V 		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		
<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 • for AWG conductors / for main contacts 		2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²) 2x (1 ... 16 mm ²), 1x (1 ... 25 mm ²) 2x (18 ... 3), 1x (18 ... 2)

UL/CSA ratings:

Operating voltage / acc. to UL 60947 / Rated value	V	600
Full-load current (FLA) / for three-phase AC motor		
<ul style="list-style-type: none"> • at 480 V / Rated value 	A	32
<ul style="list-style-type: none"> • at 600 V / Rated value 	A	32

Certificates/ approvals:

General Product Approval	other
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[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

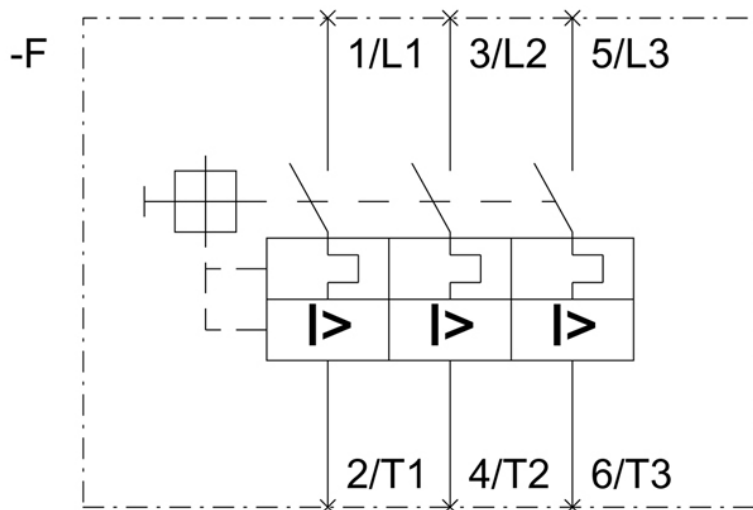
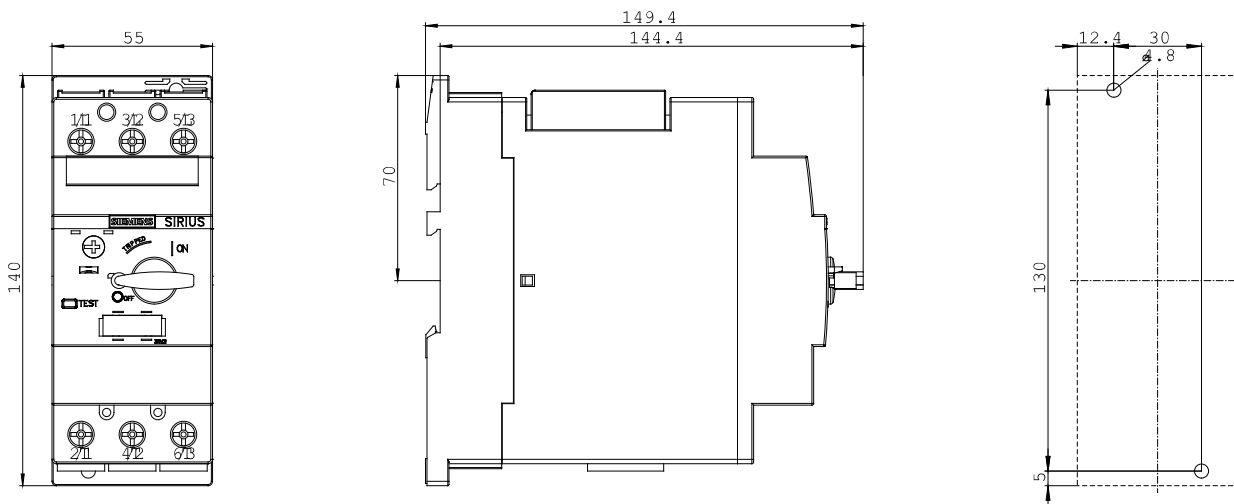
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV2031-4EB10/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2031-4EB10



last change:

Dec 18, 2014