



CIRCUIT BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 9.5...14A, N-RELEASE 208A, STANDARD BREAKING CAPACITY

Figure similar

product brand name		SIRIUS
Product designation		3RV2 circuit breaker

General technical data:

Active power loss total typical	W	10
Insulation voltage	V	690
• with degree of pollution 3 Rated value		
Shock resistance		25g / 11 ms Sinus
• acc. to IEC 60068-2-27		
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
• of the main contacts typical		50 000
• of the auxiliary contacts typical		50 000
Electrical endurance (switching cycles)		
• typical		50 000
Temperature compensation	°C	-20 ... +60
Size of contactor can be combined company-specific		S2
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Equipment marking		
• acc. to DIN EN 81346-2		Q

Main circuit:

Number of poles for main current circuit		3
Adjustable response value current of the current-dependent overload release	A	9.5 ... 14

Operating voltage		
• Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 ... 60
Operating current Rated value	A	14
Operating current		
• at AC-3		
— at 400 V Rated value	A	14
Operating power		
• at AC-3		
— at 230 V Rated value	W	3 000
— at 400 V Rated value	W	5 500
— at 500 V Rated value	W	7 500
— at 690 V Rated value	W	11 000
Operating frequency		
• at AC-3 maximum	1/h	15

Auxiliary circuit:

Number of NC contacts		
• for auxiliary contacts		
— Note		1
Number of NO contacts		
• for auxiliary contacts		
— Note		1
Product expansion Auxiliary switch		Yes

Protective and monitoring functions:

Trip class		CLASS 10
Design of the overload circuit breaker		thermal
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	6
• at 690 V Rated value	kA	3
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	12
• with AC at 690 V Rated value	kA	5
Response value current of the instantaneous short-circuit release	A	208

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	14
• at 600 V Rated value	A	14
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated value	metric hp	1.5
• for single-phase AC motor at 230 V Rated value	metric hp	3
• for three-phase AC motor at 200/208 V Rated value	metric hp	5
• for three-phase AC motor at 220/230 V Rated value	metric hp	5
• for three-phase AC motor at 460/480 V Rated value	metric hp	10
• for three-phase AC motor at 575/600 V Rated value	metric hp	15

Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit		
• at 240 V		none required
• at 400 V		100
• at 500 V		80
• at 690 V		63

Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	140
Width	mm	75
Depth	mm	149
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0

— upwards	mm	50
— at the side	mm	10
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	10

Connections/ Terminals:

Type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
• removable terminal for auxiliary and control circuit		No
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²)
— finely stranded with core end processing		2x (1 ... 16 mm ²), 1x (1 ... 25 mm ²)
• for AWG conductors for main contacts		2x (18 ... 3), 1x (18 ... 2)
Tightening torque		
• for main contacts with screw-type terminals	N·m	3 ... 4.5
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M6
• of the auxiliary and control contacts		M3

Safety related data:

Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
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Mechanical data:

Size of the circuit-breaker		S2
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Ambient conditions:



Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-20 ... +60
• during storage	°C	-50 ... +80
• during transport	°C	-50 ... +80

Relative humidity during operation	%	10 ... 95
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Display:

Display version		Handle
<ul style="list-style-type: none"> for switching status 		

Certificates/ approvals:

General Product Approval	other
 CSA	 UL
	Confirmation
	Environmental Confirmations

Further information

- Information- and Downloadcenter (Catalogs, Brochures,...)

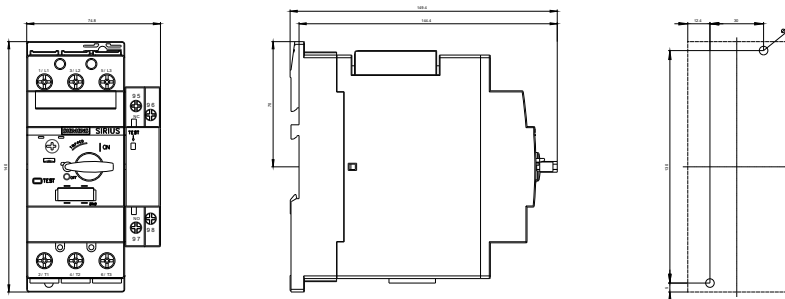
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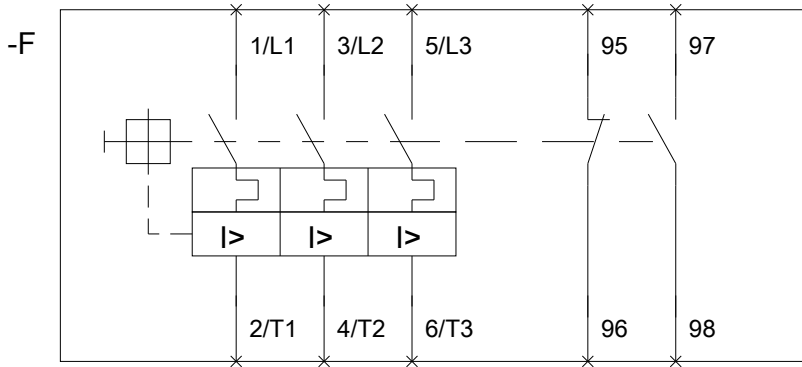
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- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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