## **SIEMENS**

## Data sheet

## 3RV2032-4EA15



CIRCUIT BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 22...32A, N-RELEASE 416A, SCREW TERMINAL, INCREASED SWITCHING CAPACITY W. TRANSV. AUX. SWITCH 1NO+1NC

Figure similar		
product brand name		SIRIUS
Product designation		3RV2 circuit breaker
General technical data:		
Active power loss total typical	W	14
Insulation voltage		
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms Sinus
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
<ul> <li>of the main contacts typical</li> </ul>		50 000
<ul> <li>of the auxiliary contacts typical</li> </ul>		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-	А	22 32
dependent overload release		

Operating voltage	-	
Rated value	V	690
	V	690
at AC-3 Rated value maximum	Hz	50 60
Operating frequency Rated value Operating current Rated value		32
Operating current	A	52
• at AC-3		
	А	32
— at 400 V Rated value	A	52
Operating power		
• at AC-3	14/	7 500
— at 230 V Rated value	W	7 500
— at 400 V Rated value	W	15 000
— at 500 V Rated value	W	18 500
— at 690 V Rated value	W	30 000
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		1
— Note		1
Number of NO contacts	_	
<ul> <li>for auxiliary contacts</li> </ul>		1
— Note		1
Product expansion Auxiliary switch	-	Yes
Design of the auxiliary switch	-	transverse
Operating current of the auxiliary contacts at AC-15	-	
• at 24 V	А	2
• at 230 V	А	0.5
Operating current of the auxiliary contacts at DC-13	-	
• at 24 V	А	1
• at 60 V	А	0.15
• at 110 V	А	0
● at 125 V	А	0
• at 220 V	А	0
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	А	100

kA	8
kA	4
kA	100
kA	100
kA	15
kA	6
A	416
А	32
А	32
metric hp	3
metric hp	5
metric hp	10
metric hp	10
metric hp	25
metric hp	30
	C300 / R300
	Yes
	magnetic
	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
	(short-circuit current lk < 400 A)
	(short-circuit current lk < 400 A)
	kA kA kA kA kA A A A A A Metric hp metric hp metric hp metric hp metric hp metric hp metric hp metric hp metric

Installation/ mounting/ dimensions: mounting position

• at 400 V

• at 500 V

• at 690 V

125

100

80

any

Mounting type		screw and snap-on mounting onto 35 mm standard
		mounting rail according to DIN EN 60715
Height	mm	140
Width	mm	55
Depth	mm	149
Required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— 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
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Arrangement of electrical connectors for main current circuit	_	Top and bottom
Product function		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No
Type of connectable conductor cross-section	-	
• for main contacts		
— single or multi-stranded		2x (1 35 mm²), 1x (1 50 mm²)
— finely stranded with core end processing		2x (1 25 mm²), 1x (1 35 mm²)
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (18 2), 1x (18 1)
<ul> <li>for auxiliary contacts</li> </ul>		
		$2 \times (0.5 + 1.5 - 2 \times 2) = 2 \times (0.75 + 0.5 - 2 \times 2)$

- single or multi-stranded
- finely stranded with core end processing
- for AWG conductors for auxiliary contacts

2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>) 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (20 ... 16), 2x (18 ... 14)

Tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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
Mechanical data:		
Size of the circuit-breaker		S2
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-20 +60
during storage	°C	-50 +80
during transport	°C	-50 +80
Relative humidity during operation	%	10 95
Display:		
Display version		
<ul> <li>for switching status</li> </ul>		Handle
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://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20324EA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV20324EA15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV20324EA15&lang=en



