SIEMENS

Data sheet 3RV2032-4KA10

CIRCUIT BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 62...73A, N-RELEASE 949A, SCREW TERMINAL, INCREASED SWITCHING CAPACITY



Figure similar

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:	
Size of the circuit-breaker	S2
Size of contactor can be combined company-specific	S2
Product expansion	
Auxiliary switch	Yes
Active power loss total typical	21 W
Insulation voltage with degree of pollution 3 Rated	690 V
value	
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP20
• of the terminal	IP00
Shock resistance	
• acc. to IEC 60068-2-27	25g / 11 ms Sinus
Mechanical service life (switching cycles)	
 of the main contacts typical 	20 000
 of the auxiliary contacts typical 	20 000

• typical 20 000 Protection against electrical shock Equipment marking acc. to DIN EN 81346-2 Q Initial Conditions: Installation attitude at height above sea level maximum Ambient temperature • during operation • 20 +60 °C • during storage • 55 +80 °C • during transport • 55 +80 °C Temperature compensation 20 +60 °C Relative humidity during operation 10 95 % Alian circuit: Number of poles for main current circuit 3 Adjustable response value current of the current-dependent overload release Operating vortage • Rated value 690 V • at AC-3 Rated value maximum 690 V Operating current Rated value 73 A Operating current Pated value 73 A Operating current at 400 V Rated value 73 A Operating power • at 400 V Rated value 20 00 W — at 500 V Rated value 45 000 W — at 500 V Rated value 55 000 W Operating frequency • at AC-3 anximum 15 1/h In	Electrical endurance (switching cycles)	
Equipment marking acc. to DIN EN 81346-2 Q Imbient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during transport Temperature compensation Relative humidity during operation 120 +60 °C - during transport Temperature compensation Relative humidity during operation 10 95 % Interpetature of poles for main current circuit 3 Adjustable response value current of the current-dependent overload release Operating voltage • Rated value 690 V • at AC-3 Rated value maximum 690 V Operating current Rated value 73 A Operating current Rated value 1 at AC-3 1 at AC-3 1 at AC-3 2 at 40 V Rated value 37 00 W 37 00 W 48 00 V Rated value 45 000 W 45 000 W 45 000 W 46 000 V 47 000 V 48 000 V 49 000 V 40	• typical	20 000
Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during transport Temperature compensation • during transport -50 +80 °C -60 +80 °C Temperature compensation -20 +60 °C -80 °C -80 °C -80 °C -80 °C Temperature compensation -20 +60 °C Relative humidity during operation 10 95 % Adjustable response value current droutt 3 Adjustable response value current of the current-dependent overload release Operating voltage • Rated value • at AC-3 Rated value maximum • at AC-3 Rated value • at AC-3 — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — 55 000 W Operating frequency • at AC-3 maximum 15 1/h DUCSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor — at 200/208 V Rated value • of for three-phase AC motor	Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Installation altitude at height above sea level maximum	Equipment marking acc. to DIN EN 81346-2	Q
Ambient temperature • during operation • during storage • during storage • during transport -50 +80 °C Temperature compensation -20 +60 °C Relative humidity during operation -20 +60 °C -20	Ambient conditions:	
• during operation • during storage • during storage • during transport • 50 +80 °C • during transport • 50 +80 °C • Temperature compensation • 20 +60 °C Relative humidity during operation 10 95 % ### ### ### ### ### ### ### ### ###	Installation altitude at height above sea level maximum	2 000 m
• during storage • during transport -50 +80 °C Temperature compensation -20 +60 °C Relative humidity during operation 10 95 % Adin circuit Number of poles for main current circuit 3 Adjustable response value current of the current-dependent overload release Operating voltage • Rated value • at AC-3 Rated value maximum Operating frequency Rated value • at AC-3 — at 400 ∨ Rated value — at 400 ∨ Rated value • at 600 ∨ Rated value • at 600 ∨ Rated value • 65 A • at 600 ∨ Rated value • 65 A • at 600 ∨ Rated value • 65 A • at 600 ∨ Rated value • 65 A • at 600 ∨ Rated value • for three-phase AC motor — at 200/208 ∨ Rated value • for three-phase AC motor — at 200/208 ∨ Rated value	Ambient temperature	
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Temperature compensation	during storage	-50 +80 °C
Relative humidity during operation 10 95 %	during transport	-50 +80 °C
Adjustable response value current circuit Adjustable response value current of the current-dependent overload release Operating voltage • Rated value • at AC-3 Rated value maximum Operating frequency Rated value Operating current Rated value • at AC-3 — at 400 V Rated value — at 500 V Rated value — at 690 V Operating prequency • at AC-3 — at 400 V Rated value — at 400 V Rated value — at 400 V Rated value — at 690 V Rated value • at 480 V Rated value • at 480 V Rated value • at 480 V Rated value • at 600 V Rated Value	Temperature compensation	-20 +60 °C
Number of poles for main current circuit 3	Relative humidity during operation	10 95 %
Adjustable response value current of the current-dependent overload release Operating voltage • Rated value • at AC-3 Rated value maximum Operating frequency Rated value • at AC-3 Rated value Operating current Rated value 73 A Operating current • at AC-3 — at 400 V Rated value 73 A Operating power • at AC-3 — at 230 V Rated value — at 400 V Rated value 37 000 W — at 500 V Rated value — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h ILICSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • at 600 V Rated value • at 600 V Rated value • at 200/208 V Rated value 20 hp	Main circuit:	
dependent overload release Operating voltage 690 V • Rated value 690 V • Departing frequency Rated value 50 60 Hz Operating current Rated value 73 A Operating current • at AC-3	Number of poles for main current circuit	3
• Rated value 690 V • at AC-3 Rated value maximum 690 V Operating frequency Rated value 50 60 Hz Operating current Rated value 73 A Operating current • at AC-3 — at 400 V Rated value 73 A Operating power • at AC-3 — at 230 V Rated value 22 000 W — at 400 V Rated value 37 000 W — at 400 V Rated value 45 000 W — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h IL/GSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 65 A • at 600 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	Adjustable response value current of the current- dependent overload release	62 73 A
• at AC-3 Rated value maximum 690 V Operating frequency Rated value 50 60 Hz Operating current Rated value 73 A Operating current • at AC-3 — at 400 V Rated value 73 A Operating power • at AC-3 — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 500 V Rated value — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • 65 A • at 600 V Rated value • 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	Operating voltage	
Operating frequency Rated value 50 60 Hz Operating current Rated value 73 A Operating current • at AC-3 — at 400 V Rated value • at AC-3 — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h JL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	Rated value	690 V
Operating current Rated value 73 A Operating current • at AC-3 — at 400 V Rated value 73 A Operating power • at AC-3 — at 230 V Rated value 22 000 W — at 400 V Rated value 37 000 W — at 500 V Rated value 45 000 W — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h JL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	 at AC-3 Rated value maximum 	690 V
Operating current	Operating frequency Rated value	50 60 Hz
• at AC-3 — at 400 V Rated value Operating power • at AC-3 — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 65 A vielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	Operating current Rated value	73 A
— at 400 V Rated value 73 A Operating power	Operating current	
Operating power • at AC-3	• at AC-3	
• at AC-3 — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value 65 A • at 600 V Rated value for three-phase AC motor — at 200/208 V Rated value 20 hp	— at 400 V Rated value	73 A
— at 230 V Rated value 22 000 W — at 400 V Rated value 45 000 W — at 690 V Rated value 55 000 W Operating frequency ■ at AC-3 maximum 15 1/h IL/CSA ratings: Full-load current (FLA) for three-phase AC motor ■ at 480 V Rated value 65 A ■ at 600 V Rated value 62 A yielded mechanical performance [hp] ■ for three-phase AC motor — at 200/208 V Rated value 20 hp	Operating power	
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- at 500 V Rated value 45 000 W - at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	— at 230 V Rated value	22 000 W
— at 690 V Rated value 55 000 W Operating frequency • at AC-3 maximum 15 1/h IL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	— at 400 V Rated value	37 000 W
Operating frequency • at AC-3 maximum It is 1/h Object to at AC-3 maximum It is 1/h Object to at AC-3 maximum It is 1/h It is	— at 500 V Rated value	45 000 W
 at AC-3 maximum JL/CSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V Rated value at 600 V Rated value for three-phase AC motor at 200/208 V Rated value 20 hp 	— at 690 V Rated value	55 000 W
JL/CSA ratings: Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	Operating frequency	
Full-load current (FLA) for three-phase AC motor • at 480 V Rated value 65 A • at 600 V Rated value 62 A yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	• at AC-3 maximum	15 1/h
 at 480 V Rated value at 600 V Rated value be for three-phase AC motor at 200/208 V Rated value 	UL/CSA ratings:	
at 600 V Rated value 9 at 600 V Rated value 62 A 9 yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V Rated value 20 hp	Full-load current (FLA) for three-phase AC motor	
yielded mechanical performance [hp] ● for three-phase AC motor — at 200/208 V Rated value 20 hp	• at 480 V Rated value	
• for three-phase AC motor — at 200/208 V Rated value 20 hp		62 A
— at 200/208 V Rated value 20 hp	yielded mechanical performance [hp]	
	• for three-phase AC motor	
— at 220/230 V Rated value 25 hp	— at 200/208 V Rated value	
	— at 220/230 V Rated value	25 hp

— at 460/480 V Rated value	50 hp
— at 575/600 V Rated value	60 hp

Short-circuit protection		
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	160	
● at 500 V	125	
● at 690 V	100	

mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rai
	according to DIN EN 60715
Height	140 mm
Width	55 mm
Depth	149 mm
Required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	10 mm
at the olde	

Safety related data:	
T1 value for proof test interval or service life acc. to	10 y
IEC 61508	
Display version	
• for switching status	Handle

Certificates/ approvals:

General Product Approval

Railway





Bestätigungen

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=3RV20324KA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV20324KA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20324KA10&lang=en







