SIEMENS

Product data sheet 3RV2011-0KA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-RELEASE16A, SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:			
product brand name		SIRIUS	
Product designation		3RV2 circuit breaker	
Size of the circuit-breaker		S00	
Number of poles / for main current circuit		3	
Product function			
 removable terminal for auxiliary and control circuit 		No	
overload protection		Yes	
phase disturbance recognition		Yes	
short-circuit to earth recognition		No	
Product component			
auxiliary switch		No	
undervoltage release mechanism		No	
trip indicator		No	
Product extension			
auxiliary switch		Yes	
optional / motor drive		No	
Impulse voltage resistance / rated value	kV	6	
Protection class IP / on the front		IP20	
Protection against electrical shock		finger-safe	

Ambient temperature • during stroage • during stroage • during stroage • C	Installation altitude / at a height over sea level / maximum	m	2,000		
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- during storage - during operating - C - 20 +80 Active power loss / total / typical Main circuit: Operating vortage / rated value Service power / at AC-3 - at 400 V / rated value - at 690 V / rated value - at 69	·	°C	-50 +80		
Active power loss / total / typical W 5.4 Main circut: Operating voltage / rated value V 690 Service power / at AC-3 - at 400 V / rated value W 370 - at 590 V / rated value W 370 - at 590 V / rated value W 370 - at 690 V / rated value W 370 - at 690 V / rated value W 750 Operating current / at AC-3 / at 400 V / rated value A 1.25 Machanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum 1/h 15 Auxiliary circuit: Number of changeover contacts / for auxiliary contacts 0 Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class CLASS 10 Adjustable response current / of the current-dependent overload release CLASS 10 Adjustable response current / of the current-dependent overload release CLASS 10 Adjustable response current / of the current-dependent A 0.9 1.25 with low demand rate / according to SN 31920 % 40 - with ligh demand rate / according to SN 31920 % 40 Failure rate [FT] / with low demand rate / according to SN 31920 FT 50 B10 value / with high demand rate / according to SN 31920 50,000 Tri value / for proof test interval or service life / according to IEC 61508 Trip continue	during storage	°C	-50 +80		
Operating voltage / rated value Operating voltage / rated value **at 400 V / rated value **at 500 V / rated value **at 690 V / rated value **at 690 V / rated value **at 690 V / rated value **Operating current / at AC-3 / at 400 V / rated value Mechanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum **Ith** 15 **Auxiliary circuit: Number of changeover contacts / for auxiliary contacts **Mechanical operating cycles as operating time / of the auxiliary contacts / typical **Protection function: **Trip class** Adjustable response current / of the current-dependent overload release **Safety:* **Proportion of dangerous failures** **with high demand rate / according to SN 31920 **with low demand rate / according to SN 31920 **with low demand rate / according to SN 31920 **with low demand rate / according to SN 31920 **with low demand rate / according to SN 31920 **Justice of the forproof test interval or service life / according to IEC along to IEC along to IEC along to IEC along to IN IN EN 60715 **Bill value / with high demand rate / according to SN 31920 **Trivatue / for proof test interval or service life / according to IEC along to	during operating	°C			
Operating voltage / rated value Service power / at AC-3 - at 400 V / rated value - at 590 V / rated value - at 690 V / rated value - A 1.25 Operating current / at AC-3 / at 400 V / rated value - A 1.25 Mechanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum The 15 Auxiliary circuit: Number of changeover contacts / for auxiliary contacts - O Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class - Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures - with high demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - With low demand rate / according to SN 31920 - Failture rate [FIT] / with low demand rate / according to SN 31920 - Failture rate [FIT] / with low demand rate / according to SN 31920 - Til value / for proof test interval or service life / according to IEC 61508 Mounting type - Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 - mounting position - Depth - mm 96	Active power loss / total / typical	W			
Service power 1 at AC-3 • at 400 V / rated value • at 690 V / rated value • A 1.25 Mechanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum 1/h 15 Auxiliary circuit: Number of changeover contacts / for auxiliary contacts Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class CLASS 10 Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 • with low demand rate / according to SN 31920 Til value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type mm 96	Main circuit:				
- at 400 V / rated value - at 500 V / rated value - at 690 V / rated value - A 1.25 Mechanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum - 1/h - 15 Auxiliary circuit: Number of changeover contacts / for auxiliary contacts - With operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class - CLASS 10 - Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures - with high demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - with low demand rate / according to SN 31920 - Ti value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type - Screw and snap-on mounting onto 35 mm standard mounting position - Maximum Andrea (According to DIN EN 60715	Operating voltage / rated value	V	690		
- at 500 V / rated value - at 690 V / rated value Operating current / at AC-3 / at 400 V / rated value A 1.25 Mechanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum 1/h 15 Auxiliary circuit: Number of changeover contacts / for auxiliary contacts Mechanical operating cycles as operating time / of the auxiliary contacts / typical Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures - with high demand rate / according to SN 31920 - with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 Tri value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type mm 96	Service power / at AC-3				
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Mechanical operating cycles as operating time / of the main contacts / typical Frequency of operation / with AC-3 / maximum 1/h 15 Auxiliary circuit: Number of changeover contacts / for auxiliary contacts Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class CLASS 10 Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 Fit 50 B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting position popth mm 96	at 690 V / rated value	W	750		
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Auxiliary circuit: Number of changeover contacts / for auxiliary contacts Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class CLASS 10 Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 • with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting position munting position mm 96			100,000		
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Mechanical operating cycles as operating time / of the auxiliary contacts / typical Protection function: Trip class Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 Failure rate [FIT] / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position pepth mm 96	Auxiliary circuit:				
Protection function: Trip class Adjustable response current / of the current-dependent overload release Safety: Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 * with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 Filt 50 B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position Depth mm 96	Number of changeover contacts / for auxiliary contacts		0		
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Safety: Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 Filt 50 B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position pepth mm 96	Trip class		CLASS 10		
Proportion of dangerous failures • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position pepth mm 96		А	0.9 1.25		
with high demand rate / according to SN 31920 with low demand rate / according to SN 31920 Failure rate [FIT] / with low demand rate / according to SN 31920 B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position pepth mm 96	Safety:				
• with low demand rate / according to SN 31920 % 40 Failure rate [FIT] / with low demand rate / according to SN 31920 FIT 50 B10 value / with high demand rate / according to SN 31920 50,000 T1 value / for proof test interval or service life / according to IEC 61508 10 Installation/mounting/dimensions: Mounting type	Proportion of dangerous failures				
Failure rate [FIT] / with low demand rate / according to SN 31920 B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 Installation/mounting/dimensions: Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position pepth mm 96	with high demand rate / according to SN 31920	%	40		
B10 value / with high demand rate / according to SN 31920 T1 value / for proof test interval or service life / according to IEC 61508 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 96	 with low demand rate / according to SN 31920 	%	40		
T1 value / for proof test interval or service life / according to IEC 61508 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 96	Failure rate [FIT] / with low demand rate / according to SN 31920	FIT	50		
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 96	B10 value / with high demand rate / according to SN 31920		50,000		
Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 mounting position any Depth mm 96		а	10		
mounting position mounting rail according to DIN EN 60715 any Depth mm 96	Installation/mounting/dimensions:				
Depth 96	Mounting type				
	mounting position		any		
Height 97	Depth	mm	96		
	Height	mm	97		

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Connections:			
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 the connectable conductor cross-section			
• for main contacts			
• finely stranded			
 with conductor end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
• for AWG conductors / for main contacts		2x (18 14), 2x 12	

UL/CSA ratings:			
yielded mechanical performance (hp)			
• for three-phase squirrel cage motors			
• at 460/480 V / rated value	hp	0.5	
• at 575/600 V / rated value	hp	0.5	
Full-load current (FLA) / for 3-phase motor			
• at 480 V / rated value	Α	1.25	
• at 600 V / rated value	Α	1.25	

Certificates/approvals:

General Product Approval	Declaration of	Test Certificates
	Conformity	











Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval











other

Environmental Confirmations

Further information:

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

 $\underline{\text{http://www.siemens.com/industrial-controls/mall}}$

Cax online generator:

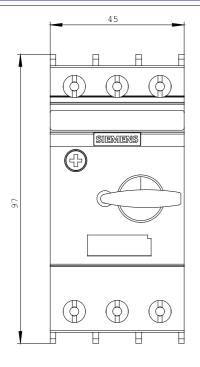
http://www.siemens.com/cax

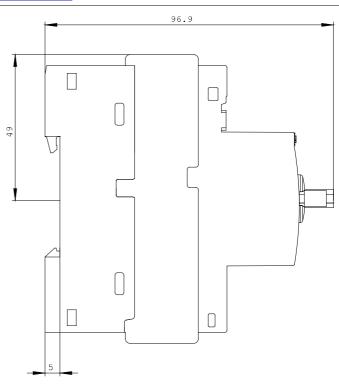
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

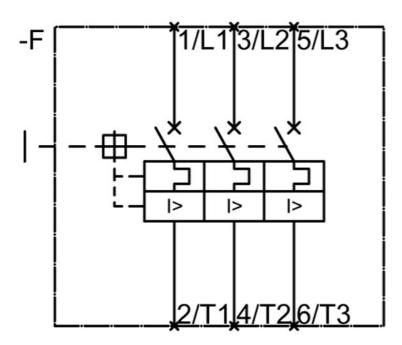
http://support.automation.siemens.com/WW/view/en/3RV2011-0KA10/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0KA10







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