# SIEMENS

### Data sheet

## 3RV2021-4BA10-Z W96



Circuit breaker size S0 for motor protection, Class 10 A-release 13...20 A Nrelease 260 A Screw terminal Standard switching capacity Multi-unit packaging Pack = 24 units

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	10.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.5 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	13 20 A
operating voltage	
rated value	20 690 V
• at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	20 A
operational current	

		20. A	
operating prover• al AO-3- al 420 V rabed value5.5 KW- al 420 V rabed value7.5 KW- al 420 V rabed value11 kW- al 420 V rabed value15 kW- al 420 V rabed value15 kW- al 420 V rabed value5.5 KW- al 420 V rabed value5.5 KW- al 420 V rabed value5.5 KW- al 420 V rabed value11 kW- al 420 V rabed value15 kW- al 420 V rabed value15 kW- al 420 V rabed value15 kW- al 400 V rabed value15 kW- al 400 V rabed value15 kW- al 400 V rabed value0- al 400 v rabed value00 kA- al 400 v rabed value0 kA- al 400 v rabed value0 kA- al 400 v rabed value0 kA- al	• at AC-3 at 400 V rated value	20 A	
• AC-3S- at 400 Vrade value5.5W- at 500 Vrade value7.5W- at 500 Vrade value15.W- at 500 Vrade value5.5W- at 500 Vrade value5.5W- at 500 Vrade value5.5W- at 500 Vrade value7.5W- at 500 Vrade value11.W- at 500 Vrade value11.W- at 500 Vrade value15.W- at 500 Vrade value0- grund fialt distoctionNo- grund fialt distoctionNo- grund fialt distoction0- grund fialt distoction00 A- at 200 Vrade value00 A- at 200 Vrade value00 A- at 200 Vrade value25 A- at 200 Vrade value20 A- at 600 Vrade value15 hp- at 600 Vrade		20 A	
- at 400 V rade value     7.5 kW       - at 500 V rade value     15 kW       - at 230 V rade value     5 kW       - at 230 V rade value     7.6 kW       - at 400 V rade value     7.6 kW       - at 600 V rade value     15 kW       - at 600 V rade value     0       - at 600 V rade value     0<			
	— at 230 V rated value	5.5 kW	
	— at 400 V rated value	7.5 kW	
• all AC-3e all 230 V rade Value5. KW all 230 V rade Value7. 5. KW all 500 V rade Value11. KW all 500 V rade Value15. KW all 500 V rade Value15. KW all C30 rankinum15. 15. In all C30 rankinum15. 16. In all C30 rankinum0- number of NC contects for auxiliary contacts0- number of NC contacts for auxiliary contacts0- product functionsVes- eground fault detectionVes- eground fault detectionVes- eground fault detectionVes- eground fault detection100 KA- effaber follarue detection100 KA- effaber follarue detection56 KA- effaber follarue detection400 Vrade Value- effaber follarue detection100 KA- effaber follarue detection100 KA- effaber follarue detection20 KA- effaber follarue20 K	— at 500 V rated value	11 kW	
	— at 690 V rated value	15 kW	
	● at AC-3e		
- al 500 Y raide Vaule     11 KW       - al 600 Y raide Vaule     15 KW       0 pertaing frequency     15 1/h       - alt AC-3 maximum     15 1/h       Anxiliary circuit     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       product function     0       • ground fault detection     Yes       • ground fault detection     Yes       • alt AC-3 the overload release     Hermail       maximum short-circuit current breaking capacity (fou)     100 kA       • alt AC alt 500 Y rated value     100 kA       • alt AC alt 500 Y rated value     100 kA       • alt AC alt 500 Y rated value     100 kA       • alt AC alt 500 Y rated value     100 kA       • alt AC alt 500 Y rated value     100 kA       • alt AC alt 500 Y rated value     25 KA       • alt AC alt 500 Y rated value     20 A       • alt AC alt 500 Y rated value     20 A       • alt AC alt 500 Y rated value     20 A       • alt AC alt 500 Y rated value     15 hp       • alt AC alt 500 Y rated value     20 A       • alt AC alt 500 Y rated value     20 A       • alt AC alt 500 Y rated value     15 hp       • alt AC alt 50 V rated value     15 hp       • alt AC alt 50 V rated value <td< td=""><td>— at 230 V rated value</td><td>5.5 kW</td></td<>	— at 230 V rated value	5.5 kW	
	— at 400 V rated value	7.5 kW	
operating frequency         is 1/A C-3 maximum         15 1/h           • id A C-3 maximum         15 1/h           • id A C-3 maximum         15 1/h           • all A C-3 maximum         15 1/h           Auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           number of Co contacts for auxiliary contacts         0           • ground flaut detection         No           • riguord flaut detection         Ves           • riguord flaut detection         Ves           • all A C-3 flaut detection         No           • all A C-3 flaut detection         Ves           • all A C-3 flaut detection         100 kA           • all A C-3 flaut detection         100 kA           • all A C-3 flaut detection         100 kA           • all A C-3 flaut detection         25 kA           • all A C-3 flaut detection         20 kA           • all A C-3 flaut detection         20 kA           • all A OV trated value	— at 500 V rated value	11 kW	
i at AC-3 maximum     15 1ml       AuxIlary circles     0       number of NC contacts for auxiliary contacts     0       number of AC contacts for auxiliary contacts     0       number of AC contacts for auxiliary contacts     0       runber of AC contacts for auxiliary contacts     0       runber of AC contacts for auxiliary contacts     0       product function     No       • product function     Ves       • product function     No       • phase failur detection     Ves       trip class     CLASS 10       design of the overload release     thermal       maximum short-ficiualt current breaking capacity (Ico)     Internal       • at AC at 900 V rated value     100 kA       • at AC at 900 V rated value     100 kA       • at AC at 900 V rated value     100 kA       • at AC at 900 V rated value     26 kA       • at 400 V rated value     26 kA       • at 800 V rated value     26 kA       • at 800 V rated value     20 A       • at 800 V rated value     1.5 hp       - at 800 V rated value     3 hp       • for single-phase A contof	— at 690 V rated value	15 kW	
• at AC3 e maximum15 1/mAuxiliary cortacts for auxiliary contacts0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Protective and monitoring functions0Protective and monitoring functionsVesiproduct functionNo• ground faile detectionVesitrip classCLASS 10design of the overload releaseHermailmaximum short-circuit current breaking capacity (Icu)•• at AC at 400 V rated value55 KA• at AC at 400 V rated value10 KA• at AC at 400 V rated value10 KA• at AC at 400 V rated value25 KA• at AC at 600 V rated value56 KA• at AC at 600 V rated value25 KA• at AC at 600 V rated value56 KA• at 400 V rated value20 A• at 400 V rated value20 A• at 400 V rated value30 R• at 400 V rated value1.5 fb• at 400 V rated value3 hp• at 400 V rated value5 hp• at 400 V rated value5 hp• at 400 V rated value1.5 fb• at 400 V rated value1.6 hp• at 400 V rated value3 hp• at 400 V rated value1.6 hp• at 400	operating frequency		
Auxiliary circuit         0           number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           Protective and monitoring functions         0           product function         No           • phase failure detection         Yes           trip class         CLASS 10           design of the overload rolasse         thermal           maximum short-focult current breaking capacity (leu)         100 kA           • at AC at 240 V rated value         100 kA           • at AC at 560 V rated value         100 kA           • at AC at 560 V rated value         100 kA           • at AC at 560 V rated value         20 kA           • at AC at 560 V rated value         20 kA           • at AC at 560 V rated value         20 kA           • at 600 V rated value         20 A           • at 600 V rated value </td <td>• at AC-3 maximum</td> <td>15 1/h</td>	• at AC-3 maximum	15 1/h	
number of NC contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           protect function         0           eignund fault detection         No           • opticate for auxiliary contacts         0           protect function         Yes           • opticate fault detection         No           • opticate fault detection         Yes           • of CAS of The overload release         thermal           maximum short-circuit current breaking capacity (Icu)         100 kA           • at A C at 400 V rated value         55 kA           • at A C at 400 V rated value         100 kA           • at AC at 400 V rated value         100 kA           • at AC at 400 V rated value         25 kA           • at 400 V rated value         25 kA           • at 400 V rated value         26 kA           • at 400 V rated value         20 A           • at 400 V rated value         20 A           • at 800 V rated value	• at AC-3e maximum	15 1/h	
number of NO contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           Productive and monitoring functions         0           product function         No           • ground fault detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (ku)         100 kA           • at AC at 240 V rated value         55 kA           • at AC at 400 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 900 V rated value         25 kA           • at AC at 900 V rated value         260 A           • at 800 V rated value         260 A           • at 800 V rated value         200 A           • at 800 V rated value         20 A           • at 800 V rated value         1.5 hp           • at 800 V rated value         1.5 hp           • at 800 V rated value         1	Auxiliary circuit		
number of CO contacts for auxiliary contacts         0           Protect View and monitoring functions         -           product function         -           • ground fault detection         Yes           • phase failure detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (teu)         -           • at AC at 20 V rated value         55 KA           • at AC at 200 V rated value         55 KA           • at AC at 500 V rated value         4 KA           • at AC at 500 V rated value         25 KA           • at 200 V rated value         25 KA           • at 500 V rated value         26 A           • at 500 V rated value         26 A           • at 600 V rated value         26 A           • at 600 V rated value         26 A           • at 600 V rated value         20 A           • at 600 V rated value         1.5 hp	number of NC contacts for auxiliary contacts	0	
Protective and monitoring functions              product function	number of NO contacts for auxiliary contacts	0	
Protoctive and monitoring functions              product function		0	
product function         No           • ground fault detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)         100 kA           • at AC at 240 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at 200 V rated value         25 kA           • at 500 V rated value         25 kA           • at 500 V rated value         25 kA           • at 500 V rated value         260 A           ULUCSA ratings         100 kA           • at 600 V rated value         20 A           • at 600 V rated value         20 A           • at 600 V rated value         20 A           • at 600 V rated value         1.5 hp           at 200/208 V rated value         3 hp           • for 3-phase AC motor         1.5 hp           at 200/208 V rated value         5 hp           at 200/208 V rated value         5 hp           at 400/408 V rated value         10 hp			
• ground fault detectionNo• phase failure detectionYes• trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)00 kA• at AC at 200 V rated value50 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value25 kA• at 240 V rated value26 kA• at 500 V rated value26 kA• at 600 V rated value26 A• at 600 V rated value20 A• at 600 V rated value3 hp• for single-phase AC motor1.5 hp• at 200 V rated value3 hp• for 3-phase AC motor1.5 hp• at 200 V rated value3 hp• for 3-phase AC motor1.5 hp• at 200 V rated value5 hp• at 400 V rated			
• phase failure detectionYestrip classCLASS 10design of the overfoad releasethermalmaximum short-circuit current breaking capacity (Icu)00 kA• at AC at 240 V rated value50 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC4 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value25 kA• at 400 V rated value25 kA• at 400 V rated value260 A• at 600 V rated value20 A• at 600 V rated value20 A• at 600 V rated value20 A• at 400 V rated value20 A• at 600 V rated value20 A• at 600 V rated value20 A• at 600 V rated value3 hp• for single-phase AC motor1.5 hp• at 600 V rated value3 hp• for 3-phase AC motor1.5 hp• at 200/208 V rated value3 hp• for 3-phase AC motor1.5 hp• at 200/208 V rated value5 hp• at 400 V rated value5 hp• at 200/208 V rated value5 hp• at 200/208 V rated value5 hp• at 200/208 V rated value5 hp• at 400 V rated value6 hp• at 600 V rated value5 hp• at 400 V rated value<	•	No	
trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)         ithermal           • at AC at 240 V rated value         100 kA           • at AC at 400 V rated value         10k A           • at AC at 600 V rated value         4 kA           • at AC at 600 V rated value         4 kA           • at AC at 600 V rated value         25 kA           • at 240 V rated value         25 kA           • at 400 V rated value         25 kA           • at 400 V rated value         25 kA           • at 600 V rated value         26 A           • at 600 V rated value         20 A           • at 600 V rated value         10 from single-phase AC motor           • at 600 V rated value         10 from 3-phase AC motor           • at 600 V rated value         10 from 3-phase AC motor           • at 600 V rated value         10 from 3-phase AC motor           • at 600 V rated value         10 from 3-phase AC motor           • at 200/208 V rated value         5 hp <td>0</td> <td></td>	0		
design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)         i           • at AC at 240 V rated value         100 kA           • at AC at 500 V rated value         10 kA           • at AC at 680 V rated value         10 kA           • at AC at 690 V rated value         10 kA           • at AC at 690 V rated value         100 kA           • at AC at 690 V rated value         25 kA           • at 240 V rated value         100 kA           • at 240 V rated value         25 kA           • at 400 V rated value         25 kA           • at 600 V rated value         260 A           ULCSA ratings         20 A           value current of instantaneous short-circuit trip unit         20 A           ULCSA ratings         20 A           value current (FLA) for 3-phase AC motor         -           • at 600 V rated value         20 A           • at 600 V rated value         1.5 hp           • at 600 V rated value         1.5 hp           • at 200 V rated value         1.5 hp           • at 600 V rated value         1.5 hp           • at 600 V rated value         1.5 hp           • at 600 V rated value         1.5 hp           • at 200/208 V rated value	· · · ·	CLASS 10	
maximum short-circuit current breaking capacity (icu)         via AC at 240 V rated value         100 kA           • at AC at 240 V rated value         100 kA         100 kA           • at AC at 500 V rated value         10 kA         100 kA           • at AC at 600 V rated value         100 kA         100 kA           • at 240 V rated value         100 kA         100 kA           • at 240 V rated value         100 kA         100 kA           • at 240 V rated value         25 kA         100 kA           • at 240 V rated value         260 A         100 kA           • at 600 V rated value         260 A         100 kA           response value current of instantaneous short-circuit trip unit         260 A         100 kA           UL/CSA ratings         20 A         20 A         20 A           vielded mechanical performance [hp]         90 rated value         20 A         100 kA           • at 600 V rated value         20 A         20 A         100 kA           • at 600 V rated value         20 A         100 kA         100 kA           • at 600 V rated value         20 A         10 kD         10 kD           • at 600 V rated value         10 hp         10 kD         10 kD           • at 600 V rated value         10 hp         10 kD<		thermal	
• at AC at 240 V rated value100 kA• at AC at 300 V rated value55 kA• at AC at 500 V rated value10 kA• at AC at 500 V rated value4 kAoperating short-circuit current breaking capacity (ics) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 600 V rated value25 kA• at 600 V rated value260 A• at 600 V rated value20 A• at 600 V rated value3 hp• for single-phase AC motor1.5 hp- at 110/120 V rated value3 hp• for 3-phase AC motor1.5 hp- at 200/208 V rated value3 hp• for 3-phase AC motor- at 200/208 V rated value- at 200/208 V rated value1.6 hp- at 400/400 V rated value1.6 hp- at 200/208 V rated value1.6 hp- at 400/400 V rated value1.			
• at AC at 400 V rated value55 k A• at AC at 500 V rated value10 k A• at AC at 600 V rated value4 koperating short-circuit current breaking capacity (Ics) at AC100 k A• at 240 V rated value100 k A• at 400 V rated value25 k A• at 600 V rated value2 k A• at 600 V rated value2 k Aresponse value current of instantaneous short-circuit trip unit260 A <b>UL/CSA ratings</b> 20 A <b>UL/CSA rated value</b> 20 A• at 600 V rated value20 A• at 600 V rated value3 hp• at 200 V rated value3 hp• for single-phase AC motor7.5 hp- at 110/120 V rated value3 hp• for 3-phase AC motor7.5 hp- at 200/208 V rated value5 hp- at 400480 V rated value6 hp- at 400480 V rated value6 hp- at 400480 V rated value6 hp- at 400480 V rated value9 L/g 6 83 A- at 400 V9 L/g 6 50 A- at 600 V9 L/g 6 50 A- at 600 V		100 kA	
• at AC at 500 V rated value10 kA• at AC at 650 V rated value4 kAoperating short-circuit current breaking capacity (cs) at AC-• at 240 V rated value100 kA• at 240 V rated value25 kA• at 600 V rated value5 kA• at 600 V rated value26 0 Aresponse value current of instantaneous short-circuit trip unit260 AU/CSA ratingsJulic Same Constantaneous short-circuit trip unit200 AU/CSA ratingsJulic Same Constantaneous short-circuit trip unitJulic Same Constantaneous short-circuit trip- Julic Same Constantaneous short-circuit trip <td colspa<="" td=""><td></td><td>55 kA</td></td>	<td></td> <td>55 kA</td>		55 kA
• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (ics) at AC100 kA• at 240 V rated value100 kA• at 400 V rated value25 kA• at 690 V rated value2 kA• at 690 V rated value260 A• at 690 V rated value20 A• at 400 V rated value20 A• at 400 V rated value20 A• at 400 V rated value20 A• at 690 V rated value20 A• at 690 V rated value20 A• at 400 V rated value20 A• at 400 V rated value20 A• at 10/120 V rated value3 hp• for single-phase AC motor at 200/208 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 200/208 V rated value10 hp.Short-circuit protectionYesoptication short circuit protectionYesdesign of the fuse link for IT network for short-circuit trpmagneticdesign of the fuse link for IT network for short-circuit trpmagneticat 600 VgL/gG 50 A• at 600 VgL/gG 50 A <td></td> <td></td>			
operating short-circuit current breaking capacity (ics) at AC       100 kA         • at 240 V rated value       100 kA         • at 400 V rated value       25 kA         • at 650 V rated value       2 kA         response value current of instantaneous short-circuit trip unit       260 A         UL/CSA ratings       20 A         till-load current (FLA) for 3-phase AC motor       20 A         • at 600 V rated value       1.5 hp         - at 10/120 V rated value       1.5 hp         - at 200/280 V rated value       5 hp         - at 200/280 V rated value       5 hp         - at 400/480 V rated value       10 hp.         Short-circuit protection       Yes         design of the fuse link for IT network for short-circuit protection       Yes         design of the fuse link for IT network for short-circuit protection of the main circuit       gL/gG 63 A         • at 60			
• at 240 V rated value100 kA• at 400 V rated value25 kA• at 600 V rated value5 kA• at 600 V rated value2 kAresponse value current of instantaneous short-circuit trip unit260 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value20 A• at 480 V rated value20 A• at 600 V rated value20 A• at 100 / rated value20 A• at 100 / rated value30 A• at 110/120 V rated value3 hp• for single-phase AC motor at 120/208 V rated value7.5 hp- at 220/208 V rated value5 hp- at 220/208 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionYesdesign of the short-circuit rpt• at 400 VgL/gG 63 A• at 600 VgL/gG 50 A• at 600 VgL/gG			
eit 400 V rated value     25 kA       eit 690 V rated value     5 kA       eit 690 V rated value     2 kA       response value current of instantaneous short-circuit trip unit     260 A       UL/CSA ratings     20 A       full-load current (FLA) for 3-phase AC motor     20 A       eit 600 V rated value     3 hp       eit 600 V rated value     1.5 hp       - at 100/20 V rated value     3 hp       e for 3-phase AC motor     -       - at 200/208 V rated value     5 hp       - at 200/208 V rated value     5 hp       - at 200/208 V rated value     5 hp       - at 450/480 V rated value     5 hp       - at 450/480 V rated value     5 hp       - at 400/480 V rated value     10 hp       Short-circuit protection     Yes       design of the short-circuit trip     magnetic       design of the short-circuit frip     magnetic       idesign of the short-circuit frip     magnetic       idesign of the short-circuit frip     magnetic       idesign of the short-circuit frip     gL/gG 50 A       i at 400 V		100 kA	
• at 500 V rated value5 kA• at 680 V rated value2 kAresponse value current of instantaneous short-circuit trip unit260 AUL/CSA ratings20 A• at 480 V rated value20 A• at 480 V rated value20 A• at 600 V rated value3 h• at 10/120 V rated value1.5 hp- at 210 V rated value3 hp• for 3-phase AC motor7.5 hp- at 220/230 V rated value5 hp- at 220/230 V rated value5 hp- at 220/230 V rated value10 hpShort-circuit protectionYesgesin of the short-circuit tripmagneticdesign of the short-circuit protectionYes• at 400 VgL/gG 63 A• at 400 VgL/gG 50 A• at 400 VgL/gG 50 A• at 500 VgL/gG 50 A• at 600 VgL/gG 50 A•			
• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit260 AUL/CSA ratings260 Afull-load current (FLA) for 3-phase AC motor20 A• at 480 V rated value20 A• at 600 V rated value20 Ayleided mechanical performance [hp]0 A• for single-phase AC motor1.5 hp- at 110/120 V rated value1.5 hp- at 200/208 V rated value3 hp• for 3-phase AC motor7.5 hp- at 200/208 V rated value5 hp- at 202/230 V rated value5 hp- at 202/230 V rated value10 hpShort-circuit protectionYesproduct function short circuit protectionYesdesign of the sus-int kort for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A• at 600 VgL/gG 50 Ai at 600 VgL/gG 50 Ai at 600 Vscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60751			
response value current of instantaneous short-circuit trip unit       260 A         UL/CSA ratings       101-load current (FLA) for 3-phase AC motor         • at 480 V rated value       20 A         • at 600 V rated value       20 A         • at 600 V rated value       20 A         • of of single-phase AC motor			
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       20 A         • at 600 V rated value       20 A         • at 600 V rated value       20 A         yielded mechanical performance [hp]       •         • for single-phase AC motor       -			
full-load current (FLA) for 3-phase AC motor       20 A         • at 480 V rated value       20 A         • at 600 V rated value       20 A         yielded mechanical performance [hp]       •         • for single-phase AC motor       -         - at 110/120 V rated value       1.5 hp         - at 230 V rated value       3 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       7.5 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       10 hp         Short-circuit protection       Yes         gesign of the short-circuit protection       Yes         design of the short-circuit trip       magnetic         • at 400 V       gL/gG 63 A         • at 500 V       gL/gG 50 A         • at 500 V       gL/gG 50 A         • at 609 V       gL/gG 50 A         • at 600 V       gL/gG 50 A		2007	
• at 480 V rated value20 A• at 600 V rated value20 Ayielded mechanical performance [hp]0• for single-phase AC motor1.5 hp- at 110/120 V rated value1.5 hp- at 230 V rated value3 hp• for 3-phase AC motor7.5 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionproduct function short circuit protectionproduct function short circuit ripmagneticdesign of the short-circuit tripmagnetic• at 400 VgL/gG 63 A• at 500 VgL/gG 50 A• at 690 VgL/gG 50 AInstallation/ mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
• at 600 V rated value20 Ayielded mechanical performance [hp]•• for single-phase AC motor1.5 hp- at 110/120 V rated value1.5 hp- at 230 V rated value3 hp• for 3-phase AC motor7.5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value10 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 63 A• at 600 VgL/gG 60 A<		20 A	
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> </ul> </li> <li>Short-circuit protection</li> <li>Yes</li> <li>design of the short-circuit trip</li> <li>magnetic</li> <li>design of the fuse link for IT network for short-circuit</li> <li>protection of the main circuit</li> <li>at 400 V</li> <li>gL/gG 63 A</li> <li>at 500 V</li> <li>gL/gG 50 A</li> <li>at 690 V</li> <li>gL/gG 50 A</li> <li>at 690 V</li> <li>gL/gG 50 A</li> <li>at 690 V</li> <li>box 400 V</li> <li>gL/gG 50 A</li> <li>box 400 V</li> <li>gL/gG 50 A</li> <li>box 400 V</li> <li>box 400 V</li> <li>box 400 V</li> <li>cox 400 V</li> <li>box 400 V</li></ul>		20 A	
- at 110/120 V rated value1.5 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value7.5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuitgL/gG 63 A• at 400 VgL/gG 50 A• at 690 VgL/gG 50 A• at 690 VgL/gG 50 Astallation/ mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
at 230 V rated value3 hp• for 3-phase AC motor7.5 hp at 200/208 V rated value7.5 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hpShort-circuit protectionYesdesign of the short-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuitprotection of the main circuit• at 400 VgL/gG 63 A• at 500 VgL/gG 50 A• at 690 VgL/gG 50 AInstallation/ mounting/ dimensionsmounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		1.5 hp	
• for 3-phase AC motor·- at 200/208 V rated value7.5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionProduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit protectiongL/gG 63 A• at 400 VgL/gG 50 A• at 690 VgL/gG 50 A• at 690 VgL/gG 50 AInstallation/ mounting/ dimensionsanyfastening methodScrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
7.5 hp		5 lip	
- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionYesproduct function short circuit protectionmagneticdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A• at 500 VgL/gG 50 A• at 690 VgL/gG 50 AInstallation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		7.5 hp	
— at 460/480 V rated value       10 hp         Short-circuit protection       Ves         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 400 V       gL/gG 63 A         • at 500 V       gL/gG 50 A         • at 690 V       gL/gG 50 A         Installation/ mounting/ dimensions       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
Short-circuit protection       Yes         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       gL/gG 63 A         • at 400 V       gL/gG 63 A         • at 500 V       gL/gG 50 A         • at 690 V       gL/gG 50 A         Installation/ mounting/ dimensions       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
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 <ul> <li>at 400 V</li> <li>gL/gG 63 A</li> <li>e at 500 V</li> <li>gL/gG 50 A</li> <li>e at 690 V</li> </ul> Installation/ mounting/ dimensions       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
design of the short-circuit trip       magnetic         design of the fuse link for IT network for short-circuit protection of the main circuit       gL/gG 63 A         • at 400 V       gL/gG 63 A         • at 500 V       gL/gG 50 A         • at 690 V       gL/gG 50 A         Installation/ mounting/ dimensions       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
design of the fuse link for IT network for short-circuit protection of the main circuit       gL/gG 63 A         • at 400 V       gL/gG 63 A         • at 500 V       gL/gG 50 A         • at 690 V       gL/gG 50 A         Installation/ mounting/ dimensions       any         fastening method       any			
protection of the main circuit       • at 400 V       • at 400 V       • at 500 V       • at 500 V       • at 690 V       Installation/ mounting/ dimensions       mounting position       fastening method   any		magnetic	
• at 500 V       gL/gG 50 A         • at 690 V       gL/gG 50 A         Installation/ mounting/ dimensions       gL/gG 50 A         mounting position       any         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	protection of the main circuit		
• at 690 V     gL/gG 50 A       Installation/ mounting/ dimensions     any       fastening method     according to DIN EN 60715			
Installation/ mounting/ dimensions     any       mounting position     any       fastening method     screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
mounting position         any           fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	• at 690 V	gL/gG 50 A	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	Installation/ mounting/ dimensions		
	mounting position	any	
height 97 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
	height	97 mm	

width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	0 mm
- downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	3 1111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	91111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	91111
<ul> <li>Ior rive parts at 500 v</li> <li>— downwards</li> </ul>	30 mm
— downwards — upwards	30 mm
— upwards — at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
for grounded parts at 690 V     — downwards	50 mm
	50 mm
— upwards — backwards	0 mm
	30 mm
— at the side — forwards	0 mm
	0 mm
<ul> <li>for live parts at 690 V</li> <li>— downwards</li> </ul>	50 mm
	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	0 mm
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M4
Safety related data	
B10 value	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle

#### Certificates/ approvals

#### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-4BA10-Z W96

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4BA10-Z W96

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10-Z W96

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

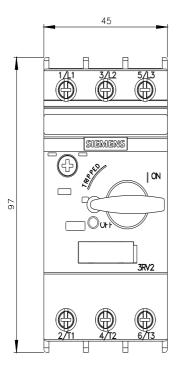
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-4BA10-Z W96&lang=en

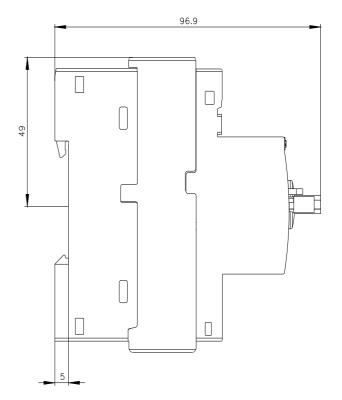
Characteristic: Tripping characteristics, I2t, Let-through current

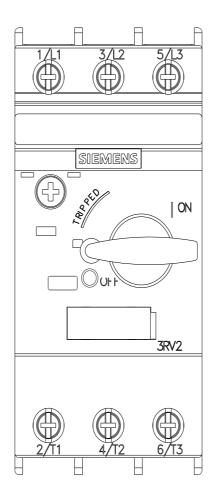
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10-Z W96/char

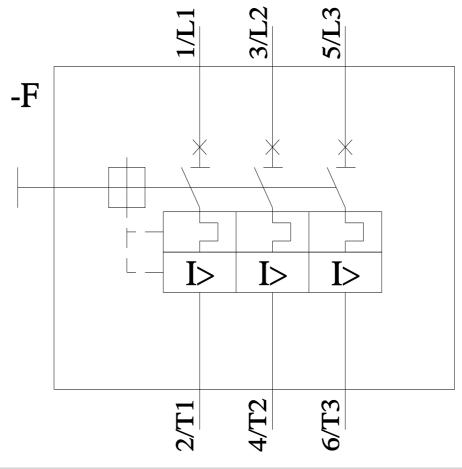
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4BA10-Z W96&objecttype=14&gridview=view1









11/21/2022 🖸

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