## **SIEMENS**

Data sheet 3RV2021-4DA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 18...25 A N-release 325 A Screw terminal Standard switching capacity



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	
of auxiliary contacts typical	100 000	
electrical endurance (operating cycles) typical	100 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
SVHC substance name	Lead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2	
Weight	0.369 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-20 +60 °C	
during storage	-50 +80 °C	
during transport	-50 +80 °C	
relative humidity during operation	10 95 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	75.078 kg	
global warming potential [CO2 eq] during manufacturing	2.68 kg	
global warming potential [CO2 eq] during sales	0.143 kg	
global warming potential [CO2 eq] during operation	72.7 kg	
global warming potential [CO2 eq] after end of life	-0.445 kg	

Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	18 25 A
type of voltage for main current circuit	AC
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	25 A
operational current	
• at AC-3 at 400 V rated value	25 A
• at AC-3e at 400 V rated value	25 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3 maximum     at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	55 kA
at AC at 500 V rated value      at AC at 500 V rated value	10 kA
at AC at 500 V rated value     at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 400 V rated value	25 kA
at 500 V rated value     at 500 V rated value	5 kA
at 690 V rated value     at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	325 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	25 A
at 400 V rated value     at 600 V rated value	25 A
yielded mechanical performance [hp]	2071
for single-phase AC motor	
at 110/120 V rated value	2 hp
	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	5 hp
— at 200/208 V rated value	5 hp

operation of the short-circuit protection design of the short-circuit trip (assign from the short-circuit trip (assign from the short-circuit protection of the main circuit (assign from the short-circuit protection of the main circuit (assign from the short-circuit protection of the main circuit (assign from the short circuit protection of the main circuit (assign from the short circuit protection of the main circuit (assign from the short circuit protection of the main circuit (assign from the short circuit protection of the main circuit (assign from the short circuit protection of the main circuit (assign from the short circuit protection of the short circuit protectio		
Stort-careal protection   Ves	— at 220/230 V rated value	7.5 hp
product function short circuit protection   Vesions of the short-circuit rip   magnetic	— at 460/480 V rated value	15 hp
design of the stans link for IT network for short-circuit protection of the main circuit protection of the main circuit protection of the main circuit at 84 00 V	Short-circuit protection	
design of the fuse link for T network for short-circuit   ** at 400 V	product function short circuit protection	Yes
set 1400 V	design of the short-circuit trip	magnetic
### 1500 V		
Substitution   Immanified   I	● at 400 V	gL/gG 63 A
Installation mounting   dimensions	● at 500 V	gL/gG 50 A
mounting position	• at 690 V	gL/gG 50 A
Section   Sect	Installation/ mounting/ dimensions	
height         97 mm           width         45 mm           dopth         97 mm           required spacing         ***           • with side-by-side mounting at the side         0 mm           • for grounded parts at 400 V         -**           — at the side         9 mm           • for live parts at 4.00 V         ***           — downwards         30 mm           — upwards         30 mm           • at the side         9 mm           • for grounded parts at 500 V         ***           — downwards         30 mm           • at the side         9 mm           • for live parts at 500 V         ***           — downwards         30 mm           • for live parts at 500 V         ***           — downwards         30 mm           • for live parts at 500 V         ***           — downwards         30 mm           • for grounded parts at 500 V         ***           — downwards         50 mm           • for grounded parts at 600 V         ***           — downwards         50 mm           • for live parts at 600 V         ***           — downwards         50 mm           • for live parts at 600 V	mounting position	any
width         45 mm           depth         97 mm           required spacing         ****           • for grounded parts at 400 V         -***           — downwards         30 mm           — at he side         9 mm           • for live parts at 400 V         -**           — at he side         9 mm           • for live parts at 400 V         -**           — at he side         9 mm           • for grounded parts at 500 V         -**           — downwards         30 mm           — at he side         9 mm           • for live parts at 500 V         -**           — downwards         30 mm           — at he side         9 mm           • for grounded parts at 690 V         -**           — downwards         50 mm           — at he side         9 mm           — backwards         0 mm           — at he side         30 mm           — for variats         0 mm           • for frounded parts at 690 V         -**           — downwards         50 mm           • for live parts at 690 V         -**           — downwards         50 mm           • for live parts at 690 V         -**	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth	height	97 mm
Product   Prod	width	45 mm
• with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — ownwards — ownward	depth	97 mm
	required spacing	
- downwards	<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm
upwards	<ul> <li>for grounded parts at 400 V</li> </ul>	
• for live parts at 400 V  - downwards - upwards - at the side • for grounded parts at 500 V  - downwards - upwards - upwards - at the side • for grounded parts at 500 V  - downwards - upwards - of live parts at 500 V  - downwards - upwards - of live parts at 500 V  - downwards - upwards - of ror grounded parts at 690 V  - downwards - of ror grounded parts at 690 V  - downwards - on mm - on the side - on mm - upwards - on mm - backwards - on mm - of live parts at 690 V  - downwards - on mm - of live parts at 690 V  - downwards - on mm - of live parts at 690 V  - downwards - on mm - of live parts at 690 V  - downwards - on mm - or live parts at 690 V  - on mm - or live parts at 690 V  - on mm - or live parts at 690 V  - on mm - or live parts at 690 V  - on mm - or live parts at 690 V  - on mm - or live parts at 690 V  - on mm - or live parts at 690 V  - on mm - or live	— downwards	30 mm
• for live parts at 400 V	— upwards	30 mm
downwards	— at the side	9 mm
- upwards - at the side	• for live parts at 400 V	
• for grounded parts at 500 V  - downwards - upwards - at the side • for live parts at 500 V  - downwards - upwards - upwards - upwards - at the side • for grounded parts at 500 V  - downwards - at the side • for grounded parts at 690 V  - downwards - upwards - backwards - upwards - backwards - onm - backwards - onm - of live parts at 690 V  - downwards • for live parts at 690 V  - downwards • for live parts at 690 V  - downwards - onm - the side - forwards - onm - onm  • for live parts at 690 V  - downwards - onm - forwards - onm - for live parts at 690 V  - downwards - onm - for live parts at 690 V  - downwards - onm - for live parts at 690 V  - downwards - onm - for live parts at 690 V  - downwards - onm - for live parts at 690 V  - for forwards - onm - backwards - onm - the side - for ong on contection - for for ain current circuit  arrangement of electrical connections - for main current circuit  screw-type terminals  - solid or stranded - finely stranded with core end processing - for AWC cables for main contacts - solid or stranded - finely stranded with core end processing - for AWC cables for main contacts - solid or stranded - finely stranded with screw-type terminals - 2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - 2 x (16 12), 2x (14 8)  tightening torqu - for main contacts with screw-type terminals - backwards - b	— downwards	30 mm
	— upwards	30 mm
- downwards	— at the side	9 mm
- upwards - at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - upwards - upwards - backwards - backwards - te side - for rowards - at the side - for live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - the side - for nownwards - backwards - upwards - backwards - upwards - backwards - o mm - the side - forwards - o mm - the side - forwards - o mm - to treat the side - forwards - the side - forwards - the side - forwards - formal current circuit   **Top and bottom**  **Top and bottom**  **type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded - finely stranded with core end processing - for AWG cables for main contacts  **type top main contacts with screw-type terminals  **design of screwdriver shaft - Diameter 5 to 6 mm  **pozitive size of the screwdriver tip - for downwards - for main contacts with screw-type terminals - size of the screwdriver tip - for main contacts - for	<ul> <li>for grounded parts at 500 V</li> </ul>	
■ at the side 9 mm  ■ for live parts at 500 V  — downwards 30 mm  — upwards 30 mm  — at the side 9 mm  ■ for grounded parts at 690 V  — downwards 50 mm  — upwards 50 mm  — backwards 0 mm  — backwards 0 mm  — forwards 50 mm  — formain current circuit screw-type terminals 4 (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  ■ for akser backwards 4 (1 2.5 Nmm)  — for AWG cables for main contacts with screw-type terminals  ■ for main cortacts with screw-type terminals  ■ for AWG cables for main contacts with screw-type terminals  ■ for main cortacts with screw-type terminals  ■ for AWG cables for main contacts 2 (2 2.5 Nm²), 2x (2.5 6 mm²), 1x 10 mm²  ■ for main cortacts with screw-type terminals  ■ for according the screw-type terminals  ■ for AWG cables for main contacts 2 (2 2.5 Nm²), 2x (2.5 6 mm²), 1x 10 mm²  ■ for according the screw-type terminals  ■ fo	— downwards	30 mm
of for live parts at 500 V         — downwards	— upwards	30 mm
- downwards	— at the side	9 mm
- upwards - at the side ● for grounded parts at 690 V - downwards - upwards - backwards - at the side - on mm - backwards - at the side - forwards - forwards - forwards - for live parts at 690 V - downwards - forwards - on mm - forwards - upwards - for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - on mm - backwards - on mm - at the side - forwards - on mm - forwards - on mm - the side - forwards - on mm - the side - forwards - on mm - the side - formards - the side - formals - the side - formals - the side - formals - the side - formal current circuit - for main current circuit - screw-type terminals - for main contacts - solid or stranded - finely stranded - finely stranded with core end processing - for AWG cables for main contacts - for Min contacts - for main contacts - for main contacts - for main contacts - for main contacts - for Min contacts - for Min contacts - for main contacts - for Min contacts - for main contacts - for Min contacts - for main contacts with screw-type terminals - for main contacts - for main contacts with screw-type terminals - for main contacts - for main contacts - for main co	<ul> <li>for live parts at 500 V</li> </ul>	
- at the side 9 mm	— downwards	30 mm
• for grounded parts at 690 V  - downwards - upwards - backwards - backwards - forwards - forwards - for live parts at 690 V - downwards - upwards - upwards - o mm - forwards - o mm - forwards - upwards - upwards - upwards - upwards - at the side - o mm - at the side - o mm - backwards - o mm - at the side - forwards - o mm - at the side - forwards - o mm - of main current circuit - for main current circuit - or main contacts - solid or stranded - finely stranded with core end processing - for AWG cables for main contacts - for MWG cables for main contacts - for main contacts - for AWG cables for main contacts - for main contacts - for AWG cables for main contacts - for main contacts - for main contacts with screw-type terminals - for main contacts - for	— upwards	30 mm
- downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - for live parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - backwards 0 mm - at the side 30 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - forwards 10 mm - for main current circuit screw-type terminals  type of electrical connection - for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections - for main contacts - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - for AWG cables for main contacts 2x (16 12), 2x (14 8)  tightening torque - for main contacts with screw-type terminals 2 2.5 N·m  design of screwdriver shaft Diameter 5 to 6 mm  size of the screwdriver shaft Diameter 5 to 6 mm	— at the side	9 mm
- upwards - backwards - at the side - forwards - forwards - for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - backwards - at the side - forwards - o mm - towards - o mm - at the side - forwards - o mm - forwards - forwards - forwards - forwards - formaric Units   **Top of electrical connection - for main current circuit  **arrangement of electrical connectors  **arrangement of electrical connect	<ul> <li>for grounded parts at 690 V</li> </ul>	
backwards	— downwards	50 mm
- at the side - forwards • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards - at the side - backwards - at the side - forwards - at the side - forwards - on mm - at the side - forwards - forwards - forwards - forwards  Connections/ Terminals   type of electrical connection • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  2 x. (1 2.5 mm²), 2x (2.5 10 mm²) - for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  2 x. (16 12), 2x (14 8)  tightening torque • for main contacts with screw-type terminals  2 x. 2.5 N·m  design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	— upwards	50 mm
- forwards • for live parts at 690 V - downwards - upwards - upwards - backwards - at the side - forwards 0 mm - forwards 0 mm - forwards 0 mm - at the side - forwards 0 mm - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  2 2.5 N⋅m  design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	— backwards	0 mm
<ul> <li>for live parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> <li>— forwards</li> <li>O mm</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>• for main current circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>• for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for main contacts</li> <li>• for AWG cables for main contacts</li> <li>• for main contacts with screw-type terminals</li> <li>2 x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>• for AWG cables for main contacts</li> <li>2 x (1 2.5 mm²), 2x (14 8)</li> <li>tightening torque</li> <li>• for main contacts with screw-type terminals</li> <li>2 2.5 N·m</li> <li>design of screwdriver shaft</li> <li>Diameter 5 to 6 mm</li> <li>size of the screwdriver tip</li> </ul>	— at the side	30 mm
- downwards - upwards - backwards - backwards - at the side - forwards - forwards  Connections/ Terminals  type of electrical connection • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  2 2.5 N·m  design of screwdriver shaft  Diameter 5 to 6 mm  size of the screwdriver tip  Pozidriv size 2	— forwards	0 mm
- upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWG cables for main contacts 2x (16 12), 2x (14 8)  tightening torque • for main contacts with screw-type terminals 2 2.5 N·m  design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	• for live parts at 690 V	
backwards 0 mm at the side 30 mm forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts solid or stranded finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  2 2.5 N·m  design of screwdriver shaft  Diameter 5 to 6 mm  size of the screwdriver tip  Pozidriv size 2	— downwards	50 mm
- at the side - forwards 0 mm  Connections/ Terminals  type of electrical connection ● for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections ● for main contacts - solid or stranded - finely stranded with core end processing ● for AWG cables for main contacts  ● for main contacts  ● for main contacts  ● for AWG cables for main contacts  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (1 2.5 mm²), 2x (14 8)  tightening torque ● for main contacts with screw-type terminals  design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	— upwards	50 mm
Top and bottom  of or main current circuit  type of electrical connectors for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  of or main contacts  - solid or stranded - finely stranded with core end processing  of or AWG cables for main contacts  tightening torque of or main contacts with screw-type terminals  2 2.5 N⋅m  design of screwdriver shaft  Diameter 5 to 6 mm  size of the screwdriver tip	— backwards	0 mm
type of electrical connection  • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (1 2.5 mm²), 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (1 2.5 mm²), 2x (14 8)  tightening torque  • for main contacts with screw-type terminals  design of screwdriver shaft  Diameter 5 to 6 mm  size of the screwdriver tip  Pozidriv size 2	— at the side	30 mm
type of electrical connection  • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  e for main contacts with screw-type terminals  2 2.5 N·m  design of screwdriver shaft  Diameter 5 to 6 mm  Pozidriv size 2	— forwards	0 mm
<ul> <li>● for main current circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>● for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>● for AWG cables for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (16 12), 2x (14 8)</li> <li>tightening torque</li> <li>● for main contacts with screw-type terminals</li> <li>2 2.5 N·m</li> <li>design of screwdriver shaft</li> <li>Diameter 5 to 6 mm</li> <li>size of the screwdriver tip</li> </ul>	Connections/ Terminals	
arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  Top and bottom  Top and bottom  Top and bottom   Top and bottom  Top and bottom  Top and bottom  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (1 2.5 mm²), 2x (14 8)  12x (1 2.5 mm²), 2x (14 8)  13x (16 12), 2x (14 8)	type of electrical connection	
type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip	for main current circuit	screw-type terminals
<ul> <li>for main contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for main contacts         • for main contacts with screw-type terminals         • for main contacts with screw-type terminals         • for screwdriver shaft</li></ul>		Top and bottom
- solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  tightening torque • for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (16 12), 2x (14 8)  2 2.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2	type of connectable conductor cross-sections	
— finely stranded with core end processing  • for AWG cables for main contacts  2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (16 12), 2x (14 8)  tightening torque  • for main contacts with screw-type terminals  2 2.5 N⋅m  design of screwdriver shaft  Diameter 5 to 6 mm  size of the screwdriver tip  Pozidriv size 2	• for main contacts	
◆ for AWG cables for main contacts     2x (16 12), 2x (14 8)  tightening torque     ◆ for main contacts with screw-type terminals     2 2.5 N·m  design of screwdriver shaft     Diameter 5 to 6 mm  size of the screwdriver tip     Pozidriv size 2	— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
tightening torque	<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
● for main contacts with screw-type terminals  design of screwdriver shaft  Diameter 5 to 6 mm  size of the screwdriver tip  Pozidriv size 2	• for AWG cables for main contacts	2x (16 12), 2x (14 8)
design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver tip     Pozidriv size 2	tightening torque	
size of the screwdriver tip Pozidriv size 2	• for main contacts with screw-type terminals	2 2.5 N·m
	design of screwdriver shaft	Diameter 5 to 6 mm
design of the thread of the connection screw	size of the screwdriver tip	Pozidriv size 2
	design of the thread of the connection screw	

• for main contacts	M4
Safety related data	
product function suitable for safety function	Yes
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	No
<ul> <li>safety-related switching OFF</li> </ul>	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	
General Product Approval	











<u>KC</u>



**General Product Ap**proval

For use in hazardous locations

**Test Certificates** 

Maritime application

**BIS CRS** 



IECEx



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Maritime application







<u>ate</u>





**Environment** 

Confirmation

other

other

**Miscellaneous** 

Railway

**Special Test Certific-**Confirmation



Siemens EcoTech



Environment

**Environmental Con-**

## Further information

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=3RV2021-4DA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4DA10

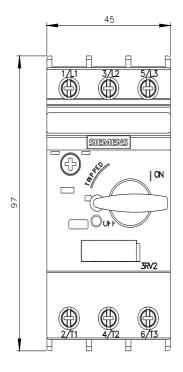
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

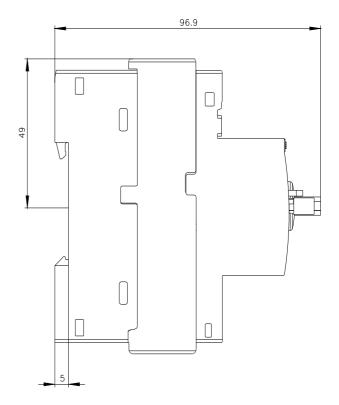
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-4DA10&lang=en

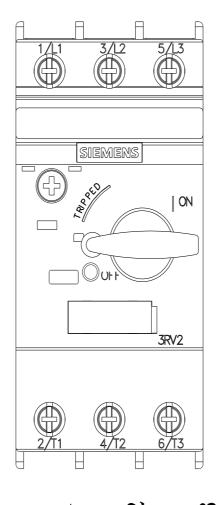
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4DA10/char

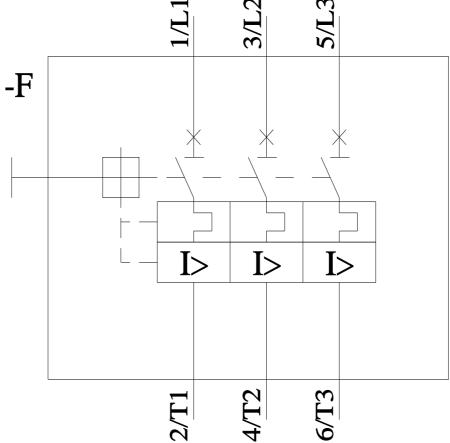
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4DA10&objecttype=14&gridview=view1









last modified: 5/16/2025 🖸