## **SIEMENS**

Data sheet 3RV2431-4WA10



Circuit breaker size S2 for transformer protection A-release 42...52 A N-release 1025 A screw terminal Standard switching capacity

Design of the product   For transformer protection   SRV2	product brand name	SIRIUS
Second technical data   Size of the circuit-breaker   Size of contactor can be combined company-specific   Size of Size	product designation	Circuit breaker
size of the circuit-breaker  size of contactor can be combined company-specific product extension auxiliary switch  ves  power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27  eof the main contacts typical of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical sulcatical endurance (switching cycles)  voltage reording to IEC 81348-2  Gubstance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature  voluming torage of during transport relative humidity during operation Tolumber of poles for main current circuit adjustable current response value current of the current dependent overload release  operating voltage  orated value  operating frequency rated value operational current rated value	design of the product	For transformer protection
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch prower loss [W] for rated value of the current • at AC in hot operating state 24.5 W • at AC in hot operating state per black of the current rated value  size of the circuit-breaker and current of the current of the current rated value size of the current response value current of the current rated value  size of the current response value current of the current rated value  size of contactor can be combined company-specific product at the current of the current rated value operation operation of the current of eduction operating frequency rated value operation operation operation operation operating frequency rated value operation ope	product type designation	3RV2
size of contactor can be combined company-specific product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state 24.5 W  • at AC in hot operating state per pole 8.2 W  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value 6 kV  shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus  mechanical service life (switching cycles)  • of the main contacts typical 50 000  • of auxiliary contacts typical 50 000  reference code according to IEC 81346-2 Q  Substance Prohibitance (Date) 10/15/2014  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -20 +60 °C  • during storage -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  operating voltage  • rated value  • at AC-3e rated value maximum 690 V  • at AC-3e rated value walue maximum 690 V  • at AC-3e rated value maximum 690 V  • at AC-3e rated value on AC-3	General technical data	
product extension auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole surge voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  of auxiliary contacts typical  electrical endurance (switching cycles) typical  electrical endurance (switching cycles) typical  substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oluring operation  oluring storage  oluring storage  oluring storage  oluring transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  orated value  at AC-3 rated value maximum  est AC-3 rated value maximum  special current rated value  operational current rated value	size of the circuit-breaker	S2
power loss [W] for rated value of the current  at AC in hot operating state  at AC in hot operating state en at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value surge voltage resistance rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical solution of auxiliary contacts typical electrical endurance (switching cycles) typical gelectrical endurance (switching cycles) typical freference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport during storage during transport soluting transport soluting transport solution to during transport solution adjustable current response value current of the current-dependent overload release operating voltage arated value arated value arated value arated value arated value maximum solution solutions so	size of contactor can be combined company-specific	S2
at AC in hot operating state 24.5 W at AC in hot operating state per pole 8.2 W insulation voltage with degree of pollution 3 at AC rated value 690 V value 500 V shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus 500 000  at the main contacts typical 50 000 500 000 500 000 600 000 000 000	product extension auxiliary switch	Yes
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oturing storage  of during storage  of during storage  of during transport  relative humidity during operation  Main circuit  adjustable current response value current of the current-dependent overload release  operating voltage  or at AC-3e rated value maximum  operational current rated value  operational current rated value  operational current rated value  operational current  of kV  show  of kV  show  of kV  show  show  of kV  show  show  of kV  show  of show  of kV  show  of sh	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Questional conditions  installation attitude at height above sea level maximum  ambient temperature  of during operation  of during storage  of during transport  relative humidity during operation  mumber of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  or rated value  operational current	<ul> <li>at AC in hot operating state</li> </ul>	24.5 W
value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  • of the main contacts typical  • of auxiliary contacts typical  felectrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during storage • during transport  relative humidity during operation  1095 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3e rated value maximum • at AC-3e rated value maximum  operational current rated value  operational current  overload RV  25g / 11 ms Sinus  50 000  6 kV  0000  000  000  000  000  000  000	at AC in hot operating state per pole	8.2 W
shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of auxiliary contacts typical electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  nstallation altitude at height above sea level maximum ambient temperature oduring storage during storage during transport relative humidity during operation  mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage at AC-3 rated value maximum of poperation lurrent rated value operational current rated value	9 1	690 V
mechanical service life (switching cycles)  • of the main contacts typical  • of auxiliary contacts typical  electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  operating frequency rated value  operational current	surge voltage resistance rated value	6 kV
of the main contacts typical     of auxiliary contacts typical     of auxiliary contacts typical     electrical endurance (switching cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum     ambient temperature     ouring operation     ouring storage     oduring transport     relative humidity during operation  Main circuit  number of poles for main current circuit     adjustable current response value current of the current-dependent overload release  operating voltage     rated value     at AC-3 rated value maximum     operational current rated value     operational current	shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
of auxiliary contacts typical     electrical endurance (switching cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Ambient conditions Installation altitude at height above sea level maximum     ambient temperature     ouring operation     during storage     during transport     relative humidity during operation  Adin circuit  number of poles for main current circuit     adjustable current response value current of the current-dependent overload release     operating voltage	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • 690 V operating frequency rated value operational current rated value operational current rated value  52 A operational current rated value operational current rated value 55 A	<ul> <li>of the main contacts typical</li> </ul>	50 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  690 V  • at AC-3e rated value maximum  690 V  operational current rated value  50 60 Hz  operational current rated value  52 A  operational current rated value  55 A	of auxiliary contacts typical	50 000
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  52 A  operational current rated value  53 A  operational current rated value  54 A  operational current rated value  55 A	electrical endurance (switching cycles) typical	50 000
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current rated value  52 A  operational current rated value  53 A  20 690 V  54 A  55 A  operational current rated value  55 A  operational current rated value	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • 50 +80 °C  • during transport relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  50 60 Hz  operational current  52 A	Substance Prohibitance (Date)	10/15/2014
ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  690 V  • at AC-3e rated value maximum  690 V  operating frequency rated value  operational current rated value  50 60 Hz  operational current rated value  52 A	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>storage</li> <li>storag</li></ul>	installation altitude at height above sea level maximum	2 000 m
<ul> <li>during storage</li> <li>during transport</li> <li>-50 +80 °C</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>eat AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>52 A</li> </ul>	ambient temperature	
<ul> <li>during transport</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>52 A</li> </ul>	<ul> <li>during operation</li> </ul>	-20 +60 °C
relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  52 A  operational current	during storage	-50 +80 °C
Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • rated value maximum  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  50 60 Hz  operational current	during transport	-50 +80 °C
number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  50 60 Hz  operational current	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current	Main circuit	
current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  690 V  operating frequency rated value  operational current rated value  50 60 Hz  operational current	number of poles for main current circuit	3
<ul> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>	•	42 52 A
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>	operating voltage	
<ul> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>	• rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 52 A operational current	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operational current rated value 52 A operational current	<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	52 A
• at AC-3 at 400 V rated value 52 A	operational current	
	at AC-3 at 400 V rated value	52 A

at AC-3e at 400 V rated value	52 A
operating power	
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
operating frequency	-TO NAV
• at AC-3 maximum	15 1/h
at AC-3 maximum	15 1/h
	13 1/11
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	65 kA
at AC at 500 V rated value	8 kA
at AC at 690 V rated value	4 kA
breaking capacity operating short-circuit current (Ics)	TIVA
at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	4 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip	1 025 A
unit	1 020 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	52 A
at 400 V rated value     at 600 V rated value	52 A 52 A
yielded mechanical performance [hp]	VE I
• for single-phase AC motor	Eha
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
	-
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	140 mm
width	55 mm
depth	149 mm
uopui	THIII VE

required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
<ul><li>downwards</li></ul>	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
Connections/ Terminals	•
type of electrical connection	screw-tyne terminals
type of electrical connection  • for main current circuit	screw-type terminals Top and bottom
type of electrical connection	screw-type terminals Top and bottom
type of electrical connection  • for main current circuit  arrangement of electrical connectors for main current	•
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	•
type of electrical connection  • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections	•
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²)
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)
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     • at AWG cables for main contacts	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²)
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)
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     • at AWG cables for main contacts	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 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     • at 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  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2
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         • at AWG cables for main contacts  tightening torque         • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2
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         • at AWG cables for main contacts  tightening torque         • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  B10 value	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2  M6
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2
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         • at AWG cables for main contacts  tightening torque         • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  B10 value         • with high demand rate according to SN 31920  proportion of dangerous failures	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2  M6
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2  M6
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000  50 % 50 %
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000  50 % 50 % 50 FIT
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000  50 % 50 %
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000  50 % 50 % 50 FIT
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         • at AWG cables for main contacts  tightening torque         • for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  B10 value         • with high demand rate according to SN 31920  proportion of dangerous failures         • 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  protection class IP on the front according to IEC	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000  50 % 50 % 50 FIT 10 y
type of electrical connection	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m  Diameter 5 to 6 mm  Pozidriv size 2  M6  5 000  50 % 50 % 50 FIT 10 y  IP20
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	Top and bottom  2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)  3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2  M6  5 000  50 % 50 % 50 % IP20  finger-safe, for vertical contact from the front



Confirmation





<u>KC</u>



**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

**Special Test Certific**ate





Marine / Shipping









Confirmation

other

other

Railway



Vibration and Shock

Confirmation

## **Further information**

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=3RV2431-4WA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2431-4WA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4WA10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2431-4WA10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4WA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2431-4WA10&objecttype=14&gridview=view1

last modified:

6/25/2022

