## **SIEMENS**

Data sheet 3RV2431-4VA10



Circuit breaker size S2 for transformer protection A-release 35...45 A N-release 922 A screw terminal Standard switching capacity

product designation design of the product product type designation 3RV2  General technical data size of the circuit-breaker size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state that AC in hot operating state surge voltage resistance rated value surge voltage resistance according to IEC 60068-2-27 get juliant sinus shock resistance according to IEC 60068-2-27 special service life (switching cycles) of the main contacts typical of durilary contacts typical selectrical endurance (switching cycles) sel	product brand name	SIRIUS
product type designation  General technical data size of the circuit-breaker 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 • at AC in hot operating state per pole insulation voltage with degree of poliution 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 electrical endurance (switching cycles) typical shabilation 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 • operational current rated value	product designation	Circuit breaker
Section   Sect	design of the product	For transformer protection
size of the circuit-breaker  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 • 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 • of auxiliary contacts typical so 0000 electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical possiblation 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 • at AC-3 rated value maximum • operation alcurrent rated value operational current rated value	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  electrical endurance (switching cycles) 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 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-3 rated value maximum 690 V  • at AC-3 rated value maximum 690 V  operating frequency rated value  operational current	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 insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27 get by shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical  substance Prohibitance (Date)  Ambient conditions installation altitude at hight above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation  Adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3e rated value maximum  operational current rated value operational current	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 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  felectrical endurance (switching cycles) typical  selectrical endurance (switching cycles) typical  ference 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  • at AC-3 rated value  operational current  operational current  operational current rated value  operational current  at AC according to the current rated value  operational current  24.5 W  690 V  690 V  690 V  690 V  operational current  description  at AC according to the current  at AC according to the current  description  at AC according to the current  description  at AC according to the current  ference code according to the current rated value  operational current  operational current  at AC according to the current  description  at AC according to the current  description  at AC according to the current  at AC according to the current  according to the curren	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  surge voltage resistance rated value 6kV shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus  mechanical service life (switching cycles) of the main contacts typical 50 000 electrical endurance (switching cycles) typical 50 000 electrical endurance (switching cycles) 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 of during operation -20 +60 °C of during storage -50 +80 °C eduring transport -50 +80 °C relative humidity during operation 10 95 %  Main circuit 1 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage 1 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 operation operational current rated value operation	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  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 electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical  of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical preference 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 -50 +60 °C during storage -50 +80 °C elduring 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 arted value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V operating frequency rated value operational current	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  fererence code according to IEC 81346-2  Question of the main contacts typical  electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Question of the main conditions  installation altitude at height above sea level maximum  ambient temperature  oluring operation  during storage  oluring storage  oluring 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  orated value  at AC-3 rated value maximum  operational current rated value  operational current  of the KV  sinus  50 000  000  000  000  000  000  000	<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  lelectrical 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  oduring operation  oduring storage  oduring storage  oduring transport  relative humidity during operation  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  operation frequency rated value  operational current  operational current rated value  operational current  of the KV  storus  50 000  0 00  0	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 the main contacts typical of auxiliary contacts typical source (switching cycles) 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 olduring operation olduring storage olduring storage olduring 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 orated value at AC-3 rated value maximum operating frequency rated value operational current		690 V
mechanical service life (switching cycles)  • of the main contacts typical  • of auxiliary contacts typical  electrical endurance (switching cycles) typical  ference 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  • at AC-3 rated value maximum  operating frequency rated value  operational current  50 000  10/15/2014  20 00 m  10/15/2014  20 00 m  10/15/2014  20 00 m  10/15/2014  20 00 m  35 45 A  20 45 A  20 690 V  45 A  Operational current rated value  operational current rated value  operational current rated value  operational current	surge voltage resistance rated value	6 kV
of the main contacts typical     of auxiliary contacts typical     electrical endurance (switching cycles) typical     so 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature     ouring operation     ouring storage     ouring storage     ouring storage     ouring 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 a rated value maximum     at AC-3e rated value maximum operational current rated value operational current      so 000      conditions      so 000      conditions     conditions      conditions      conditions     conditions      conditions	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 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature     ouring operation     ouring 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 electrical endurance (switching cycles) typical 50 000  50 000  50 000  50 000  60 000	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Intition 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 • at AC-3e rated value operations current rated value operational current	<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  operating frequency rated value  operational current  10/15/2014  20 +60 °C  -20 +60 °C  -50 +80 °C  -50	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 • dego V  operating frequency rated value  operational current rated value  operational current rated value  45 A  operational current rated value  45 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  operational current rated value  operational current rated value  operational current rated value  45 A  operational current  20 +60 °C  -20 +60 °C  -20 +80 °C  -20 +80 °C  -35 +80 °C  -45 +80 °C  -45 +80 °C  -50 +80 °C  -	reference code according to IEC 81346-2	Q
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 • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current rated value  45 A  operational current  20 +60 °C  -20 +60 °C  -30 +80 °C  -50 +80 °C  -60 +80 °C  -60 +80 °C  -60 +80 °C	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  • rated value maximum  690 V  • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  45 A  operational current	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>storage</li> <li>telative humidity during operation</li> <li>mumber 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>at AC-3e rated value</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</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>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>	ambient temperature	
<ul> <li>◆ during transport</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>Main circuit</li> <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>operational current rated value</li> <li>45 A</li> <li>operational current</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  45 A  operational current	<ul> <li>during storage</li> </ul>	-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  45 A  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  operational current  3  35 45 A  20 690 V  690 V  690 V  690 V  45 A	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  45 A  operational current	Main circuit	
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  45 A	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>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>		35 45 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 45 A operational current	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operational current rated value 45 A operational current	at AC-3e rated value maximum	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	45 A
• at AC-3 at 400 V rated value 45 A	operational current	
	at AC-3 at 400 V rated value	45 A

at AC-3e at 400 V rated value	45 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
	10 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	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	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	10 kA
at AC at 690 V rated value	4 kA
breaking capacity operating short-circuit current (Ics)	7101
at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip	922 A
unit	322 / ·
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	45 A
at 400 V rated value     at 600 V rated value	45 A
yielded mechanical performance [hp]	
for single-phase AC motor	
	3 hn
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	451
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 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
.ac.oning monion	according to DIN EN 60715
height	140 mm
width	55 mm
depth	149 mm
p-11	

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>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
● for live parts at 500 V	
— 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
— upwards — backwards	0 mm
— at the side	10 mm
— at the side  — forwards	0 mm
	O IIIIII
Connections/ Terminals	
type of electrical connection	
type of electrical connection  • for main current circuit	screw-type terminals
type of electrical connection • for main current circuit arrangement of electrical connectors for main current	screw-type terminals Top and bottom
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
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) 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
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	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	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  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
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 % 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



Special Test Certificate

Type Test Certificates/Test Report





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=3RV2431-4VA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2431-4VA10

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4VA10

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

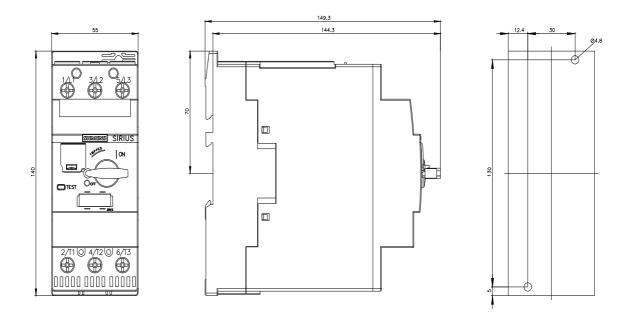
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2431-4VA10\&lang=en}}$ 

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4VA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2431-4VA10&objecttype=14&gridview=view1



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