## **SIEMENS**

Data sheet 3RV2031-4WB15



Circuit breaker size S2 for motor protection, Class 20 A-release 42...52 A N-release 741 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product designation Circuit breaker   For motor protection   SRV2    General technical data   Size of the circuit-breaker   S2   Size of contactor can be combined company-specific   S2   product extension auxiliary switch   Yes   power loss [W] for rated value of the current   4 at AC in hot operating state   24.5 W   sinusitation voltage with degree of pollution 3 at AC rated   value   6 kV   shock resistance according to IEC 60068-2:27   25g / 11 ms Sinus   mechanical service [life (switching cycles)   50 000   of auxiliary contacts typical   50 000   electrical endurance (switching cycles)   10/15/2014   Ambient conditions   S2   substance Prohibitance (Date)   10/15/2014   Ambient conditions   200 mm   200 mm   mabient temperature   40 mm   200 mm   of during poteration   -20 +60 °C   of unified younge of pollution   10 95 %   Minimized of poles for main current circuit   3   adjustable current response value current of the current dependent overload release   operating requency rated value   20 690 V   operating requency rated value   50 0.0 tele   operational current rated value   50 0.0 teles   operational current rated value   50 0 teles   operational current rated value   50 0 teles   operational current   50 0 teles   operational current rated value   50 0 teles   operational current rated value   50 0 teles   operational current rated value   50 0 teles   operational current   50 0 tel	product brand name	SIRIUS
Separate   Separation   SRV2	product designation	Circuit breaker
Size of the circuit-breaker   S2	design of the product	For motor 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 • 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 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 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 operation current 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 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  • 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 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 20 690 V  • at AC-3e rated value maximum 690 V  • at AC-3e rated value maximum 690 V  operational current rated value operationa	General technical data	
product extension auxiliary switch power loss [M] 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 freference code according to IEC 81346-2  Question of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical political endurance (switching cycles) typical electrical endurance (switching cycles) typical  polytical polytical electrical endurance (switching cycles) typical electrical endurance (switching cycles)  polytical polytical endurance	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 electrical endurance (switching cycles) typical feference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation allitude at height above sea level maximum ambient temperature • during operation • during storage • during 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 • rated value • at AC-3e rated value maximum operational current rated value operational current rated value operational current rated value operational current operational current operational current operational current rated value operational current opera	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 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  oduring operation 20 +60 °C  oduring 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  operating voltage  operating frequency rated value 50 60 V  operating frequency rated value 52 A  operational current according at AC rated value operation at AC rated value operational current operation current current operational current rated value operational current operational current rated value operational current operational current operational current operational current operational current operational current operational cur	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  • 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-3a rated value maximum  operational current rated value  operational current rated value  operational current  of the kV  show  of the main contacts typical  operational current  felo KV  show  of the main contacts typical  of the sinus  one of the main current of the current of the current of the current response value current of the current of the current response value current of the current of the current response value current of the current of the current response value current of the current of the current response value current of the c	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  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  of during storage  of uning 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  or rated value  operation at AC-3e rated value maximum  operational current  operational current rated value  operational current rated value  operational current  52 A  operational current  of NV  shock resistance according to IEC 80000  of NV  standard standard sinus  operational current value  operational current rated value  operational current rated value  operational current  operational current  of NV  operatio	<ul> <li>at AC in hot operating state</li> </ul>	24.5 W
surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  shock resistance according to IEC 60068-2-27  perhanical service life (switching cycles)  of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical freference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  Installation allitude at height above sea level maximum ambient temperature of during operation of during storage of during storage of 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 operating voltage of at AC-3 rated value maximum operational current rated value operational current of the current rated value operational current rated value operational current rated value operational current	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 lelectrical endurance (switching cycles) typical reference code according to IEC 81346-2 Quultiput (Substance Prohibitance (Date)  Installation altitude at height above sea level maximum ambient temperature 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 or at AC-3 rated value maximum operational current 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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum oduring operation of during storage of 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 or at AC-3 rated value maximum operational current 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 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 of during operation during storage of 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 or at AC-3 rated value maximum operations current reted value 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  Inumber 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     e at AC-3 rated value maximum  operational current rated value	mechanical service life (switching cycles)	
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 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  rated value  at AC-3 rated value maximum  ego V  eat AC-3e rated value maximum  ego V  operating frequency rated value  50 60 Hz  operational current rated value  52 A  operational current rated value  53 60 Hz  operational current rated value  54 52 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 • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operational current rated value 50 60 Hz operational current rated value 52 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 • at AC-3e rated value maximum  operational current 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  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 operational current rated value  operational current rated value  operational current rated value  52	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • 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  52 A  operational current  20 690 V  53 690 V  54 690 V  55 690 V  56 690 V  57 690 V  690 V  690 V  690 V  690 V	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  • at AC-3e rated value maximum  operational current 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>during transport</li> <li>storage</li> &lt;</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-3 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>operational current</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>50 60 Hz</li> </ul> operational current <ul> <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	<ul><li>during storage</li></ul>	-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  • rated value maximum  • 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 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  50 60 Hz  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  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>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>50 60 Hz</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	
at AC-3e rated value maximum     690 V     operating frequency rated value     50 60 Hz     operational current rated value     52 A     operational current	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

*al AC-3e at 400 V rated value
■ at AC-3  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at AC-3 maximum — 15 1/h  Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts — operational current of auxiliary contacts ■ at 24 V ■ at 230 V  operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 125 V ■ at 1220 V ■ at 1220 V  other in the first of the fi
at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value
at 400 V rated value
at 500 V rated value
- at 990 V rated value  • at AC-3e  - at 230 V rated value  - at 400 V rated value  - at 400 V rated value  - at 500 V rated value  - at 690 V rated value  30 kW  - at 690 V rated value  operating frequency  • at AC-3 maximum  • at AC-3e maximum  15 1/h  Auxiliary creuit  design of the auxiliary switch number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  • at 24 V  • at 230 V  operational current of auxiliary contacts at DC-13  • at 24 V  • at 110 V  • at 110 V  • at 110 V  • at 125 V  • at 120 V  • at 220 V  • at 220 V  o A  • at AC at 400 V rated value  • at AC at 400 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  • at AC at 600 V rated value
at 230 V rated value
at 500 V rated value
- at 690 V rated value 45 kW  operating frequency  • at AC-3 maximum 15 1/h  • at AC-3e maximum 15 1/h  Auxiliary circuit  design of the auxiliary switch 15 1/h  number of NC contacts for auxiliary contacts 1 1  operational current of auxiliary contacts at AC-15  • at 24 V 2 A 2 A 2 A 3 A 4 A 4 A 4 A A 4 AA 4 A 4 A A 4 A A 4 A 4 A A 4 A 4 A A 4 A A 4 A A 4 A A 4 A A 4 A A 4 A A A A A A C at 500 V rated value breaking capacity operating short-circuit current (lcs)
operating frequency  • at AC-3 maximum  • at AC-3e maximum  Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  1 number of NC contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  • at 24 V  • at 230 V  operational current of auxiliary contacts at DC-13  • at 24 V  • at 80 V  • at 110 V  • at 110 V  • at 125 V  • at 125 V  • at 220 V  o A  • at 220 V  Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  trip class  CLASS 20  design of the overload release  breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value  • at AC at 450 V rated value  • at AC at 450 V rated value  • at AC at 650 V rated value  • at AC at 650 V rated value  • at AC at 690 V rated value
at AC-3 maximum at AC-3e maximum 15 1/h  Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15 at 24 V at 230 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 110 V at 125 V at 120 V at 220 V  Protective and monitoring functions  product function aground fault detection prolass  frip class design of the overload release breaking capacity maximum short-circuit current (lcu) at AC at 400 V rated value at AC at 400 V rated value at AC at 690 V rated value
at AC-3e maximum  Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15  at 24 V at 230 V operational current of auxiliary contacts at DC-13  at 24 V at 60 V operational current of auxiliary contacts at DC-13  at 60 V at 110 V at 60 V at 125 V otal 125 V
Auxiliary circuit   design of the auxiliary switch   transverse   number of NC contacts for auxiliary contacts   1   number of NO contacts for auxiliary contacts   1   1   1   1   1   1   1   1   1
design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15  • at 24 V • at 230 V 0.5 A  operational current of auxiliary contacts at DC-13  • at 24 V • at 60 V 0.15 A • at 110 V 0 A • at 125 V 0 A • at 220 V  Protective and monitoring functions  product function • ground fault detection • phase failure detection  • phase failure detection  trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  • at 24 V
number of NO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  • at 24 V  • at 230 V  operational current of auxiliary contacts at DC-13  • at 24 V  • at 60 V  • at 110 V  • at 110 V  • at 125 V  • at 220 V  OA  • at 220 V  Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value  • at AC at 4500 V rated value  • at AC at 550 V rated value  • at AC at 690 V rated value
operational current of auxiliary contacts at AC-15  • at 24 V • at 230 V  operational current of auxiliary contacts at DC-13  • at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 220 V  OA • at 220 V  Protective and monitoring functions  product function • ground fault detection • phase failure detection  **Tip class**  CLASS 20  design of the overload release  breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 550 V rated value • at AC at 690 V rated value
• at 24 V
at 230 V  operational current of auxiliary contacts at DC-13  at 24 V  at 60 V  at 110 V  at 125 V  at 220 V  o A  Protective and monitoring functions  product function  ground fault detection  phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics)
operational current of auxiliary contacts at DC-13  • at 24 V  • at 60 V  • at 110 V  • at 125 V  • at 220 V  Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  trip class  CLASS 20  design of the overload release  breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value
<ul> <li>at 24 V</li> <li>at 60 V</li> <li>at 110 V</li> <li>at 125 V</li> <li>at 220 V</li> <li>Protective and monitoring functions</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>CLASS 20</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
<ul> <li>at 24 V</li> <li>at 60 V</li> <li>at 110 V</li> <li>at 125 V</li> <li>at 220 V</li> <li>Protective and monitoring functions</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>trip class</li> <li>CLASS 20</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
<ul> <li>at 110 V</li> <li>at 125 V</li> <li>at 220 V</li> <li>O A</li> </ul> Protective and monitoring functions product function <ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>Yes</li> </ul> trip class <ul> <li>CLASS 20</li> </ul> design of the overload release <ul> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
at 125 V at 220 V  Protective and monitoring functions  product function aground fault detection by phase failure detection trip class class class class class class class class class conditions  breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics)  at AC at 690 V rated value breaking capacity operating short-circuit current (Ics)
<ul> <li>at 220 V</li> <li>Protective and monitoring functions</li> <li>product function <ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>Yes</li> </ul> </li> <li>trip class</li> <li>CLASS 20</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul>
<ul> <li>at 220 V</li> <li>Protective and monitoring functions</li> <li>product function <ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>Yes</li> </ul> </li> <li>trip class</li> <li>CLASS 20</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul>
product function  • ground fault detection • phase failure detection  trip class CLASS 20  design of the overload release breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value  • at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics)
product function
<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>Yes</li> <li>trip class</li> <li>CLASS 20</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
<ul> <li>◆ phase failure detection</li> <li>Yes</li> <li>trip class</li> <li>CLASS 20</li> <li>design of the overload release</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>◆ at AC at 240 V rated value</li> <li>◆ at AC at 400 V rated value</li> <li>◆ at AC at 500 V rated value</li> <li>◆ at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics)
design of the overload release  breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics)
breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics)
<ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
<ul> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>breaking capacity operating short-circuit current (Ics)</li> </ul>
• at AC at 690 V rated value 4 kA  breaking capacity operating short-circuit current (Ics)
breaking capacity operating short-circuit current (Ics)
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 741 A
unit
UL/CSA ratings
full-load current (FLA) for 3-phase AC motor
• at 480 V rated value 52 A
• at 600 V rated value 52 A
yielded mechanical performance [hp]
• for single-phase AC motor
— at 110/120 V rated value 5 hp
— at 230 V rated value 10 hp
• for 3-phase AC motor
or : HOU: HOW A roted wolled
— at 200/208 V rated value 15 hp
— at 220/230 V rated value 20 hp

contact rating of auxiliary contacts according to UL	C300 / R300
	C300 / K300
Short-circuit protection	V
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	fund a C: 10 A ministure oirquit brooker C 6 A /about signit augrent !!.
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 240 V	none required
● at 400 V	160
● at 500 V	125
● at 690 V	100
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
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
• for grounded parts at 500 V	
— 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
•	
— at the side	10 mm
• for live parts at 690 V	50 mm
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
	$\mathcal{L}_{\mathcal{L}}$

tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	3 4.5 N⋅m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M6
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
B10 value	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	

Certificates/ approvais

## **General Product Approval**



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=3RV2031-4WB15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4WB15

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

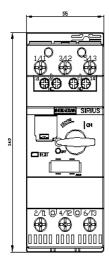
https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4WB15

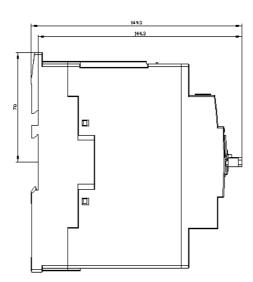
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2031-4WB15&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2031-4WB15&lang=en</a>

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4WB15/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4WB15&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4WB15&objecttype=14&gridview=view1</a>







last modified:

6/25/2022