SIEMENS

Data sheet 3RV2031-4BB10



Circuit breaker size S2 for motor protection, Class 20 A-release 14...20 A N-release 260 A screw terminal Standard switching capacity



product brand name product designation Circuit breaker design of the product product type designation SRV2 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 pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q	
design of the product 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 • at AC in hot operating state per pole • at AC in hot operating state pollution 3 at AC rated value • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating to IEC 60068-2-27 surge voltage resistance rated value • 6 kV shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q	
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 • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q	
Size of the circuit-breaker Size of contactor can be combined company-specific Size of contactor can be contactor can be combined company-specific Size of contactor can be cont	
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 pof the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q	
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 pof the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Yes Yes Yes Yes 14.5 W 4.8 W 690 V 500 V 525 / 11 ms Sinus 50 000 50 000 50 000 60 000 60 000 70 000	
power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • 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 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance rated value 6 kV shock resistance according to IEC 60068-2-27 per pollution 3 at AC rated value 6 kV shock resistance rated value 50 000 per pollution 3 at AC rated value 6 kV shock resistance rated value	
 at AC in hot operating state at AC in hot operating state per pole 4.8 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical fo 000 electrical endurance (operating cycles) typical fo 000 reference code according to IEC 81346-2 Q 	
 ◆ at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical fo 000 electrical endurance (operating cycles) typical fo 000 reference code according to IEC 81346-2 Q 	
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q	
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 of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q	
of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q 50 000 Q	
electrical endurance (operating cycles) typical 50 000 reference code according to IEC 81346-2 Q	
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date) 10/15/2014	
SVHC substance name Lead - 7439-92-1	
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	
• during transport -50 +80 °C	
relative humidity during operation 10 95 %	
Main circuit	
number of poles for main current circuit 3	
adjustable current response value current of the current- dependent overload release	
operating voltage	
• rated value 20 690 V	
• at AC-3 rated value maximum 690 V	
at AC-3e rated value maximum 690 V	
♥ at AO-SC rated value maximum	

operations current		
ACC 3 at 400 V rated value	operational current rated value	20 A
• at AC-26 at 400 V rated value • at AC-20 at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 400 V rated value • at 600 V	operational current	
■	 at AC-3 at 400 V rated value 	20 A
	at AC-3e at 400 V rated value	20 A
	operating power	
al 400 V risted value 7.5 kW 11 kW 1 kW	• at AC-3	
	— at 230 V rated value	5.5 kW
■ at 200 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at Ac-2e maximum 15 t/h ■ at Ac-3e maximum 15 t/h ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at Ac 3e 400 V rated value ■ at Ac 3e 400 V rated value ■ at Ac 3e 400 V rated value ■ at 400 V rated value ■ at 600 V rated	— at 400 V rated value	7.5 kW
	— at 500 V rated value	11 kW
at 230 V rated value	— at 690 V rated value	15 kW
al 4-90 V rated value	• at AC-3e	
— at 500 V rated value	— at 230 V rated value	5.5 kW
— at 800 V rated value • at AC3-amaximum • ar at AC3-am	— at 400 V rated value	7.5 kW
operating frequency	— at 500 V rated value	11 kW
■ at AC-3 maximum ■ at AC-3e maximum ■ at AC-3e maximum ■ at AC-3e maximum ■ ground fault detection ■ ground fault detection ■ ground fault detection ■ phase failure detection ■ phase	— at 690 V rated value	15 kW
• at AC-3e maximum 15 1/h rotockive and monitoring functions Ves product function No • ground fault detection Yes trip class CLASS 20 design of the overload release thermal maximum short-circuit current breaking capacity (fcu) 4 AC at 24 0V rated value • at AC at 4500 V rated value 56 KA • at AC at 500 V rated value 5 KA • at AC at 400 V rated value 100 KA • at AC at 400 V rated value 30 KA • at 240 V rated value 30 KA • at 400 V rated value 30 KA • at 800 V rated value 30 KA • at 800 V rated value 20 A • at 880 V rated value 3 hp • for single-phase AC motor 4 At 800 V rated value • at 200/280 V rated value 1.5 hp • at 200/220 V rated value 2.5 hp • at 3500 V rated value	operating frequency	
recettive and monitoring functions product function growth function phase failure detection Pess CLASS 20 themal maximum short-circuit current breaking capacity (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 500 V rated value beta at AC at 500 V rated value at AC at 500 V rated value beta at AC at 500 V rated value at AC at 500 V rated value beta 500 V rated value beta 500 V rated value beta 500 V rated value color beta 600 V rated value beta 500 V rated value color beta 600 V rated value beta 600 V rated value color beta 600 V rated value bet	• at AC-3 maximum	15 1/h
product function	at AC-3e maximum	15 1/h
ground fault detection	Protective and monitoring functions	
ground fault detection	product function	
• phase failure detection Yes trip class CLASS 20 design of the overload release thermal maximum short-circuit current breaking capacity (tcu) *** • at AC at 400 V rated value 65 kA • at AC at 500 V rated value 5 kA • at AC at 690 V rated value 5 kA • at 400 V rated value 100 kA • at 4400 V rated value 3 kA • at 490 V rated value 6 kA • at 480 V rated value 3 kA • at 690 V rated value 3 kA • at 480 V rated value 3 kA • at 480 V rated value 20 A • at 600 V rated value 20 A • for single-phase AC motor 4 kBO value value 1.5 hp • for single-phase AC motor 4 table value 1.5 hp • at 200/208 V rated value 7.5 hp • at 200/209 V rated value 20 hp • bort-circuit protection Yes design of	•	No
trip class CLASS 20 design of the overload release thermal maximum short-circuit current breaking capacity (lcu) 0 kA a tt AC at 400 V rated value 100 kA a tt AC at 500 V rated value 56 kA a tt AC at 690 V rated value 5 kA operating short-circuit current breaking capacity (lcs) at AC 100 kA a tt 400 V rated value 30 kA a tt 500 V rated value 3 kA a tt 500 V rated value 20 A response value current of instantaneous short-circuit trip unit 200 A LOSAratings 4 tt 400 V rated value 20 A a tt 500 V rated value 20 A a tt 600 V rated value 20 A a tt 600 V rated value 1.5 hp a tt 200 V rated value 1.5 hp a tt 200/208 V rated value 7.5 hp a tt 200/208 V rated value 7.5 hp a tt 400/400 V rated value 20 hp ant 400/400 V rated value 20 hp <td></td> <td>Yes</td>		Yes
design of the overload release themmal maximum short-circuit current breaking capacity (Icu) 4 at AC at 240 V rated value 100 kA • at AC at 500 V rated value 65 kA • at AC at 500 V rated value 5 kA • at AC at 500 V rated value 5 kA operating short-circuit current breaking capacity (Ics) at AC 4 240 V rated value 30 kA • at 4500 V rated value 30 kA 4 400 V rated value 4 kB AC • at 480 V rated value 3 kA 4 kB AC	·	CLASS 20
### ### ### ### ### ### ### ### ### ##	<u> </u>	thermal
• at AC at 500 V rated value • at AC at 690 V rated value 5 kA operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 680 V rated value **Exponse value current of instantaneous short-circuit trip unit **DEA ratings** full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 680 V rated value • at 680 V rated value • at 680 V rated value • at 100 V rated value • at 110120 V rated value • for single-phase AC motor - at 110120 V rated value • for 3-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 460/480 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC motor - at 200/208 V rated value - for 3-phase AC mot		100 kA
• at AC at 690 V rated value operating short-circuit current breaking capacity (ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value 260 A L/CSA ratings full-load current (FLA) for 3-phase AC motor • at 1480 V rated value • 20 A • at 680 V rated value • 20 A yielded mechanical performance [hp] • for single-phase AC motor — at 710/120 V rated value • 15. hp at 230 V rated value • or 3-phase AC motor — at 220/230 V rated value • 15. hp at 220/230 V rated value • 15. hp at 220/230 V rated value • 7.5 hp at 260/480 V rated value • 15. hp at 460/480 V rated value • 20 A 15. hp at 578/600 V rated value	at AC at 400 V rated value	65 kA
ear 240 V rated value 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kT 100 kA 100 kT 1	at AC at 500 V rated value	12 kA
* at 240 V rated value * at 400 V rated value * at 500 V rated value * at 500 V rated value * at 890 V rated value * at 800 V rated value * at 800 V rated value * at 80 V rated value * at 101/120 V rated value * at 230 V rated value * at 230 V rated value * at 230 V rated value * at 200/280 V rated value * at 575/600 V rated value * at 575/600 V rated value * at 575/600 V rated value * at 460/480 V rated value * at 575/600 V rated value * at 440 V rated value * at 575/600 V rated value * at 440 V rated value * at 440 V rated value * at 240 V rated value * at 440 V rated value * at 440 V rated value * at 450 V rated value * at 650 V rated value *	at AC at 690 V rated value	5 kA
* at 240 V rated value * at 400 V rated value * at 500 V rated value * at 500 V rated value * at 890 V rated value * at 800 V rated value * at 800 V rated value * at 80 V rated value * at 101/120 V rated value * at 230 V rated value * at 230 V rated value * at 230 V rated value * at 200/280 V rated value * at 575/600 V rated value * at 575/600 V rated value * at 575/600 V rated value * at 460/480 V rated value * at 575/600 V rated value * at 440 V rated value * at 575/600 V rated value * at 440 V rated value * at 440 V rated value * at 240 V rated value * at 440 V rated value * at 440 V rated value * at 450 V rated value * at 650 V rated value *	operating short-circuit current breaking capacity (Ics) at AC	
at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit L/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value before single-phase AC motor - at 110/120 V rated value - at 230 V rated value - at 220/230 V rated value - at 25/5/600 V rated value - at 575/600 V rated value - at 604/80 V rated value - at 605/80 V rated value - at		100 kA
e at 690 V rated value response value current of instantaneous short-circuit trip unit L/CSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value 20 A 21 600 V rated value 20 A yielded mechanical performance [hp] e for single-phase AC motor — at 110/120 V rated value 3 hp e for 3-phase AC motor — at 230 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 20 hp hort-circuit protection product function short circuit protection glasing of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit e at 240 V e at 400 V e at 500 V e at 690 V e a	at 400 V rated value	30 kA
response value current of instantaneous short-circuit trip unit L/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 20 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 1.5 hp — at 200/208 V rated value 7.5 hp — at 200/208 V rated value 7.5 hp — at 480/480 V rated value 15 hp — at 480/480 V rated value 20 hp hort-circuit protection product function short circuit protection gesign of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V • at 690 V • at 690 V stallation/ mounting/ dimensions mounting position ave 20 A	at 500 V rated value	6 kA
L/GSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp — at 575/600 V rated value 20 hp hort-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V	at 690 V rated value	3 kA
L/GSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp — at 575/600 V rated value 20 hp hort-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V	response value current of instantaneous short-circuit trip unit	260 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 7.5 hp — at 480/480 V rated value — at 575/600 V rated value • at 575/600 V rated value bort-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 400 V • at 500 V • at 690 V sateled and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	UL/CSA ratings	
■ at 480 V rated value ■ at 600 V rated value ■ at 600 V rated value yielded mechanical performance [hp] ■ for single-phase AC motor		
• at 600 V rated value 20 A yielded mechanical performance [hp]		20 A
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value — at 575/600 V rated value 20 hp hort-circuit protection product function short circuit protection design of the short-circuit trip eat 240 V • at 400 V • at 400 V • at 500 V • at 690 V • a		
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value — at 575/600 V rated value 20 hp hort-circuit protection product function short circuit protection design of the short-circuit trip eat 240 V • at 400 V • at 400 V • at 500 V • at 690 V • a		
- at 110/120 V rated value 1.5 hp - at 230 V rated value 3 hp • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp - at 575/600 V rated value 20 hp hort-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V • at 690 V stallalition/ mounting/ dimensions mounting position fastening method 3 hp 3 hp 3 hp 7.5 hp 7.5 hp 7.5 hp 7.5 hp 9 by 9 by 9 by 15 hp 9 con the position of th		1.5 hp
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value Product function short circuit protection product function short circuit protection design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V • at 690 V stallation/ mounting/ dimensions mounting position fastening method any fastening method 7.5 hp 7.		·
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value brotecticuit protection roduct function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 690 V at 690 V stallation/ mounting/ dimensions mounting position any fastening method 7.5 hp		
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 20 hp hort-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 400 V • at 500 V • at 690 V • at 690 V at 690 V at 690 V stallation/ mounting/ dimensions mounting position any fastening method 7.5 hp 7.5 hp 15 hp 16 hp 17 hp 17 hp 18 hp 19 hp 19 hp 10 hp	·	7.5 hp
- at 460/480 V rated value 20 hp hort-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V none required • at 400 V 100 • at 500 V 80 • at 690 V 63 Installation/ mounting/ dimensions mounting position any fastening method Service short short of the protection of the mounting training to DIN EN 60715		
- at 575/600 V rated value hort-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 500 V • at 690 V stallation/ mounting/ dimensions mounting position fastening method 20 hp Yes magnetic none required 100 80 63 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V stallation/ mounting/ dimensions mounting position fastening method Yes magnetic none required 100 80 63 81 82 83 84 85 85 85 86 87 87 87 87 88 89 89 89 89 89		
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V stallation/ mounting/ dimensions mounting position fastening method Yes magnetic none required 100 80 63 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		20 HP
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 690 V stallation/ mounting/ dimensions mounting position fastening method magnetic magnetic magnetic magnetic magnetic none required 100 63 80 63 stallation/ mounting/ dimensions mounting position any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		Vac
design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V stallation/ mounting/ dimensions mounting position fastening method none required 100 80 63 strew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
protection of the main circuit none required ● at 240 V 100 ● at 500 V 80 ● at 690 V 63 Installation/ mounting/ dimensions any Installation method any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	<u> </u>	magnetic
	protection of the main circuit	
	•	none required
at 500 V at 690 V 63 Installation/ mounting/ dimensions Immounting position Installation method any Installation method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
● at 690 V 63 Installation/ mounting/ dimensions Immounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
mounting position any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
mounting position any fastening method any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		any
		•
Height 140 Hilli	-	
	height	140 mm

width	55 mm
depth	149 mm
required spacing	
with side-by-side mounting at the side	0 mm
for grounded parts at 400 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 400 V	
— 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	
— downwards	50 mm
— upwards— at the side	50 mm 10 mm
— at the side Connections/ Terminals	10 111111
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	14
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)
 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
for AWG cables for main contacts	2x (18 3), 1x (18 2)
tightening torque	
for main contacts with screw-type terminals	3 4.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	MC
• for main contacts	M6
Safety related data	Von
product function suitable for safety function	Yes
suitability for use	No
safety-related switching onsafety-related switching OFF	Yes
sarety-related switching OFF service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	1.00
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920 with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
	Yes
overdimensioning according to ISO 13849-2 necessary	res

safety device type according to IEC 61508-2	Type A
T1 value	
 for proof test interval or service life according to IEC 61508 	10 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Handle
Approvals Certificates	
General Product Approval	

General Product Approval







Confirmation



<u>KC</u>

General Product Ap-

Test Certificates

Marine / Shipping



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

Type Test Certificates/Test Report







Marine / Shipping









Confirmation

Miscellaneous



Railway **Environment**

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

Confirmation



Siemens **EcoTech**



Environmental Confirmations

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2031-4BB10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4BB10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4BB10

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

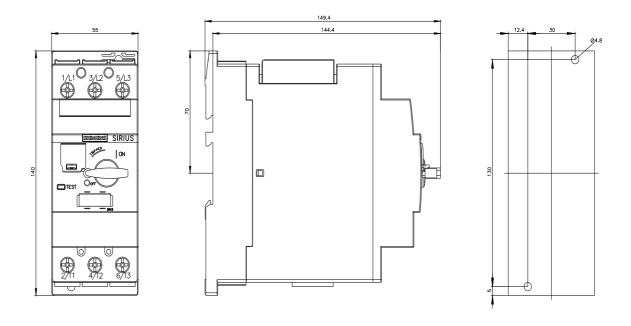
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4BB10&lang=en

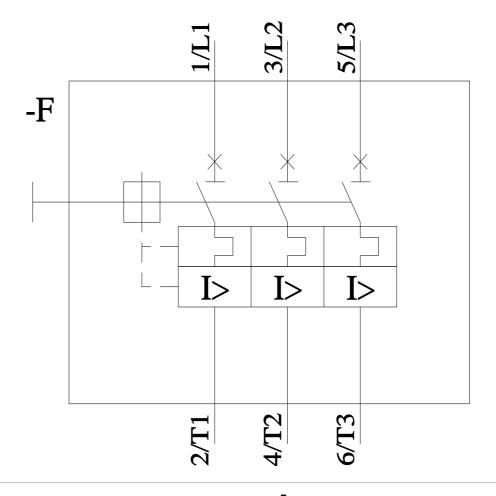
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4BB10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4BB10&objecttype=14&gridview=view1





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