SIEMENS

Data sheet 3RV2031-4EB10



Circuit breaker size S2 for motor protection, Class 20 A-release 22...32 A N-release 416 A screw terminal Standard switching capacity

SIRIUS product brand name product designation Circuit breaker design of the product For motor protection product type designation 3RV2 General technical data S2 size of the circuit-breaker size of contactor can be combined company-specific S2 product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 18 W 6 W • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated 690 V 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) 50 000 • of the main contacts typical · of auxiliary contacts typical 50 000 electrical endurance (operating cycles) typical 50 000 reference code according to IEC 81346-2 O **Substance Prohibitance (Date)** 10/15/2014 **Ambient conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • during storage · during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 22 ... 32 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum operating frequency rated value 50 ... 60 Hz operational current rated value 32 A operational current • at AC-3 at 400 V rated value 32 A at AC-3e at 400 V rated value 32 A operating power

	— at 230 V rated value— at 400 V rated value	
	— at 400 V rated value	
at 500 V rated value		7.5 kW
■ at AC-3e ■ 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 ■ at 690 V rated value ■ at 690 V rated value ■ at AC-3e maximum ■ 15 1/h ■ at AC-3e maximum ■ 15 1/h Protective and monitoring functions product function ■ ground fault detection ■ product function ■ at AC at 400 V rated value ■ at AC at 500 V rated value ■ at AC at 500 V rated value ■ at AC at 500 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	— at 500 V rated value	15 kW
		18.5 kW
	— at 690 V rated value	30 kW
at 400 V rated value	• at AC-3e	
at 400 V rated value		7.5 kW
at 500 V rated value at 690 V rated value at 2-3 maximum 15 1/h 15 1/		
- at 690 V rated value operating frequency • at AC-3 maximum • ground fault detection • ground fault detection • phase fallure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at 400 V rated value • at 600 V rated value • at 400 V rated value • at 600 V rated value • at 400 V rated value • at 600 V rated value • at 400 V rated value • at 600 V rated value • at		
operating frequency		
* at AC-3 maximum 15 1/h Protective and monitoring functions product function • ground fault detection Yes classing of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 5500 V rated value • at AC at 699 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 40 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 680 V rated valu		OU NVV
* at AC-3e maximum **Protective and monitoring functions product function **ground fault detection **prose failure detection		15.1/h
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 5500 V rated value • at AC at 650 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 40 or vated value • at 40 or vated value • at 40 v rated value • at 500 V rated value • at 690 V rated value • at 220 V rated value • at 230 V rated value • at 480 V rated value • at 600 V rated value • at 570 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC motor - at 270/208 V rated value • for 3-phase AC mo		
product function • ground fault detection • prose failure detection • prose failure detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 400 V rated value • at AC 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 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 500 V • at 500 V • at 600 V		15 1/11
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 550 V rated value • at 400 V rated value • at 550 V rated value • at 650 V rated value • at 757600 V rated value • at 673-phase AC motor - 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 • at 650 V • at 650		
phase failure detection trip class classy of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value 100 kA at AC at 500 V rated value 110 kA 4 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 0 operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA 4 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 5 kA 4 sat 500 V rated value 2 kA est 600 V rated value 4 to 80 V rated value 5 kA 4 to	·	
trip class design of the overload release 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 240 V rated value • at 2500 V rated value • at 2500 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 800 V rated value • at 200 V rated value • at 300 V rated value • at 200 V rated value • at 800 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 400 V • at 500 V	-	
design of the overload release maximum short-circuit current breaking capacity (lcu) at AC at 240 V rated value bit AC at 450 V rated value at AC at 590 V rated value 10 kA bit AC at 690 V rated value at AC at 690 V rated value bit AC at 690 V rated value at AC at 690 V rated value bit AC at 690 V rated value at 400 V rated value at 400 V rated value bit AC at 500 V rated value at 600 V rated value bit AC at 500 V rated value at 600 V rated value bit AC at 500 V rated value capacity (lcs) at AC bit AC at 500 V rated value bit AC at 500 V rated value capacity (lcs) at AC bit AC at 500 V rated value bit AC at 500 V rated value capacity (lcs) at AC bit AC at 500 V rated value capacity (lcs) at AC bit AC at 500 V rated value capacity (lcs) at AC bit AC at 500 V rated value bit AC at 500 V rated value cat 600 V rated value cat 600 V rated value bit AC at 500 V rated value bit AC at 500 V rated value bit AC at 500 V rated value capacity (lcs) at 500 V rated value bit AC at 500 V rated value capacity (lcs) at 500 V rated value capacity (lcs) at 500 V rated value capacity (lcs) at 600 V r		Yes
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 • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 690 V rated value • at 110/120 V rated value • at 110/120 V rated value • for 3-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 450/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value • at 500 V rated value	trip class	CLASS 20
■ at AC at 240 V rated value ■ at AC at 500 V rated value ■ at AC at 500 V rated value ■ at AC at 500 V rated value ■ at AC at 690 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 690 V rated value ■ at 480 V rated value ■ at 230 V rated value ■ at 200 V rated value ■ at 480 V rated value □ at 200 V rated value □ at 200 V rated value □ at 480 V rated value □ at 575600 V rated value □ at 500 V	design of the overload release	thermal
• 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 operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 100 IV20 V rated value • at 100 IV20 V rated value • at 200 V rated value • for single-phase AC motor — at 110 IV20 V rated value • for 3-phase AC motor — at 200 V rated value • for 3-phase AC motor — at 200 V rated value • for 3-phase AC motor — at 200 V rated value • for 3-phase AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 200 V rated value • for 3-phose AC motor — at 400 V rated value • for 3-phose AC motor 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 400 V • at 500 V • at 500 V • at 500 V	maximum short-circuit current breaking capacity (Icu)	
at AC at 500 V rated value 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 500 V rated value built at 690 V rated value at 690 V rated value cresponse value current of instantaneous short-circuit trip unit IU./CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value built at 600 V rated value at 600 V rated value at 600 V rated value built built at 200 V rated value built	at AC at 240 V rated value	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 • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 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 — 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 695 for 50 for	at AC at 400 V rated value	65 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 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/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 in of single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 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 2575/600 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value yes product function short circuit protection design of the short-circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 500 V • at 500 V • at 690 V	at AC at 500 V rated value	10 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 response value current of instantaneous short-circuit trip unit UL/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 • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 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 — at 575/600 V rated value 25 hp — at 575/600 V rated value 30 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 600 V • at 600 V		4 kA
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings		
at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA 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 for 3 hp at 230 V rated value for 3-phase AC motor - at 230 V rated value for 3-phase AC motor - at 220/230 V rated value for 3-phase AC motor - at 200/280 V rated value for 3-phase AC motor - at 200/280 V rated value for 3-phase AC motor - at 270/280 V rated value for 3-phase AC motor - at 480 V rated value for 3-phase AC motor - at 270/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280/280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor - at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V rated value for 3-phase AC motor at 280 V		
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/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 bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 230 V rated value bigle-phase AC motor at 230 V rated value bigle-phase AC motor at 200/208 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 200/208 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 200/208 V rated value bigle-phase AC motor at 200/208 V rated value bigle-phase AC motor at 200/208 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 200/208 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 110/120 V rated value bigle-phase AC motor at 110/		
a to 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bfor single-phase AC motor - at 110/120 V rated value - at 230 V rated value bfor 3-phase AC motor - at 110/120 V rated value bfor 3-phase AC motor - at 200/208 V rated value bfor 3-pha		
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 9 for single-phase AC motor - at 110/120 V rated value 5 hp - at 230 V rated value 9 for 3-phase AC motor - at 200/208 V rated value 10 hp - at 220/230 V rated value 10 hp - at 450/480 V rated value 25 hp - at 575/600 V rated value 25 hp - at 575/600 V rated value 9 for 3-phase AC motor - at 400/480 V rated value 10 hp - at 420 V sated value 25 hp - at 575/600 V rated value 10 hp - at 450/480 V rated value 25 hp - at 575/600 V rated value 10 hp - at 450/480 V rated value 10 hp - at	at 500 V rated value	
unit UL/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 92 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-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 690 V 80	at 690 V rated value	2 kA
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 9 32 A • at 600 V rated value 9 for single-phase AC motor at 110/120 V rated value 5 hp • for 3-phase AC motor at 230 V rated value 5 hp • for 3-phase AC motor at 200/208 V rated value 10 hp at 220/230 V rated value 10 hp at 460/480 V rated value 25 hp at 575/600 V rated value 30 hp Short-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 690 V • at 690 V		416 A
full-load current (FLA) for 3-phase AC motor • 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 110/120 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 • at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value 30 hp Short-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 690 V 80		
• at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value — at 220/230 V rated value 10 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 690 V • at 690 V 80		
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 5 hp for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 25 hp — at 575/600 V rated value 25 hp — at 575/600 V rated value Short-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 690 V 80	, , , .	32 A
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 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 575/600 V rated value — at 575/600 V rated value Short-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 80		
for single-phase AC motor — at 110/120 V rated value		32 A
- at 110/120 V rated value 3 hp - at 230 V rated value 5 hp • for 3-phase AC motor - at 200/208 V rated value 10 hp - at 220/230 V rated value 25 hp - at 460/480 V rated value 30 hp Short-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 none required • at 400 V 125 • at 500 V 80		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 10 hp - at 220/230 V rated value 25 hp - at 460/480 V rated value 25 hp - at 575/600 V rated value 30 hp Short-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 80	9 1	
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 10 hp — at 460/480 V rated value 25 hp — at 575/600 V rated value 30 hp Short-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 80 		·
- at 200/208 V rated value - at 220/230 V rated value 10 hp - at 460/480 V rated value 25 hp - at 575/600 V rated value 30 hp Short-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 100 • at 690 V	— at 230 V rated value	5 hp
- at 220/230 V rated value - at 460/480 V rated value 25 hp - at 575/600 V rated value 30 hp Short-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 100 80		
- at 460/480 V rated value 25 hp - at 575/600 V rated value 30 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic 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 125 • at 500 V 100 • at 690 V 80	• for 3-phase AC motor	
— at 575/600 V rated value 30 hp 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 none required • at 400 V 125 • at 500 V 100 • at 690 V 80	for 3-phase AC motor— at 200/208 V rated value	
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 80	for 3-phase AC motor— at 200/208 V rated value	10 hp
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 9 9 100 80	for 3-phase AC motor— at 200/208 V rated value— at 220/230 V rated value	10 hp 25 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 magnetic magnetic none required 125 100 80	 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value 	10 hp 25 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 magnetic magnetic none required 125 100 80	 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 	10 hp 25 hp
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 80	 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 Short-circuit protection	10 hp 25 hp 30 hp
 at 240 V at 400 V at 500 V at 690 V none required 125 80 	● 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 Short-circuit protection product function short circuit protection	10 hp 25 hp 30 hp Yes
 at 400 V at 500 V at 690 V 125 100 80 	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 — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	10 hp 25 hp 30 hp Yes
• at 500 V 100 • at 690 V 80	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 — at 575/600 V rated value Short-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	10 hp 25 hp 30 hp Yes magnetic
• at 690 V 80	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 — at 575/600 V rated value Short-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	10 hp 25 hp 30 hp Yes magnetic none required
	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 — at 575/600 V rated value Short-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	10 hp 25 hp 30 hp Yes magnetic none required 125
Installation/ mounting/ dimensions	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 — at 575/600 V rated value Short-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	10 hp 25 hp 30 hp Yes magnetic none required 125 100
installation/ mounting/ unitensions	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 — at 575/600 V rated value Short-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	10 hp 25 hp 30 hp Yes magnetic none required 125 100
mounting position any	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 — at 575/600 V rated value Short-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	10 hp 25 hp 30 hp Yes magnetic none required 125 100
	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 — at 575/600 V rated value Short-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 Installation/ mounting/ dimensions	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80
	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 — at 575/600 V rated value Short-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 Installation/ mounting/ dimensions mounting position	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
	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 — at 575/600 V rated value Short-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 690 V Installation/ mounting/ dimensions mounting position fastening method	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
	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 — at 575/600 V rated value Short-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 690 V Installation/ mounting/ dimensions mounting position fastening method height	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
	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 — at 575/600 V rated value Short-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 690 V Installation/ mounting/ dimensions mounting position fastening method height width	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm
	for 3-phase AC motor — at 200/208 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 Short-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 Installation/ mounting/ dimensions mounting position fastening method height width depth	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
	for 3-phase AC motor — at 200/208 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 Short-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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm 149 mm
for grounded parts at 400 V	for 3-phase AC motor — at 200/208 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 Short-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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting at the side	10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm

— downwards 50 mm — upwards 50 mm — at the side 10 mm ● for live parts at 400 V 50 mm — downwards 50 mm — upwards 50 mm — at the side 10 mm ● for grounded parts at 500 V 50 mm — upwards 50 mm — at the side 10 mm ● for live parts at 500 V 50 mm — downwards 50 mm — at the side 10 mm ● for grounded parts at 690 V 50 mm — downwards 50 mm — upwards 50 mm — upwards 50 mm — at the side 10 mm
 at the side for live parts at 400 V — downwards — upwards — at the side for grounded parts at 500 V — downwards — upwards — upwards — at the side for live parts at 500 V — downwards — at the side for live parts at 500 V — downwards — upwards — at the side for grounded parts at 690 V — downwards — at the side for grounded parts at 690 V — downwards — upwards 50 mm — downwards — upwards 50 mm — upwards 50 mm — upwards 50 mm
 for live parts at 400 V — downwards — upwards — at the side for grounded parts at 500 V — downwards — upwards — at the side for live parts at 500 V — downwards — at the side for live parts at 500 V — downwards — upwards — upwards — of mm for grounded parts at 690 V — downwards — of or grounded parts at 690 V — downwards — of mm for mm for grounded parts at 690 V — downwards — upwards 50 mm — of mm for mm f
— downwards 50 mm — upwards 50 mm — at the side 10 mm • for grounded parts at 500 V 50 mm — upwards 50 mm — at the side 10 mm • for live parts at 500 V 50 mm — upwards 50 mm — at the side 10 mm • for grounded parts at 690 V 50 mm — downwards 50 mm — upwards 50 mm — upwards 50 mm
 — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards • for grounded parts at 690 V — downwards — upwards — upwards • 50 mm — upwards — upwards
 — at the side ● for grounded parts at 500 V — downwards — upwards — at the side ● for live parts at 500 V — downwards — upwards — upwards — at the side ● for grounded parts at 690 V — downwards — upwards — the side ■ for grounded parts at 690 V — downwards — upwards 50 mm
 for grounded parts at 500 V — downwards — upwards — at the side for live parts at 500 V — downwards — upwards — upwards — at the side for grounded parts at 690 V — downwards — upwards — the side for grounded parts at 690 V — downwards — upwards 50 mm
— downwards 50 mm — upwards 50 mm — at the side 10 mm • for live parts at 500 V 50 mm — downwards 50 mm — at the side 10 mm • for grounded parts at 690 V 50 mm — downwards 50 mm — upwards 50 mm
 — upwards — at the side ● for live parts at 500 V — downwards — upwards — at the side ● for grounded parts at 690 V — downwards — upwards 50 mm 10 mm ● for grounded parts at 690 V — downwards — upwards 50 mm 50 mm
 — at the side ● for live parts at 500 V — downwards — upwards — at the side ● for grounded parts at 690 V — downwards — upwards 50 mm 50 mm 50 mm 50 mm
 for live parts at 500 V — downwards — upwards — at the side for grounded parts at 690 V downwards upwards 50 mm 50 mm mm mm
— downwards 50 mm — upwards 50 mm — at the side 10 mm • for grounded parts at 690 V — downwards — upwards 50 mm 50 mm — upwards
 — upwards — at the side • for grounded parts at 690 V — downwards — upwards 50 mm 50 mm
 — at the side for grounded parts at 690 V — downwards — upwards 50 mm 50 mm
 for grounded parts at 690 V — downwards — upwards 50 mm 50 mm
— downwards— upwards50 mm50 mm
— upwards 50 mm
— at the side 10 mm
• for live parts at 690 V
— downwards 50 mm
— upwards 50 mm
— at the side 10 mm
nnections/ Terminals

type of electrical connection

• for main current circuit

arrangement of electrical connectors for main current circuit

type of connectable conductor cross-sections

• for main contacts

 solid or stranded - finely stranded with core end processing

• 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

screw-type terminals

Top and bottom

2x (1 ... 25 mm²), 1x (1 ... 35 mm²) 2x (1 ... 16 mm²), 1x (1 ... 25 mm²)

2x (18 ... 3), 1x (18 ... 2)

3 ... 4.5 N·m

Diameter 5 to 6 mm Pozidriv size 2

M6

Safety related data

B10 value

proportion of dangerous failures

with low demand rate according to SN 31920

failure rate [FIT]

with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 display version for switching status

5 000 • with high demand rate according to SN 31920

50 % • with high demand rate according to SN 31920 50 %

50 FIT 10 y

IP20

finger-safe, for vertical contact from the front Handle

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



Declaration of Conformity Test Certificates Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping other











Confirmation

other

Railway



Confirmation

Vibration and Shock

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=3RV2031-4EB10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4EB10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EB10

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

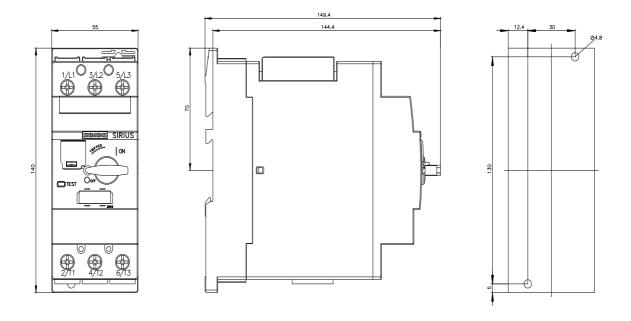
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4EB10\&lang=en}}$

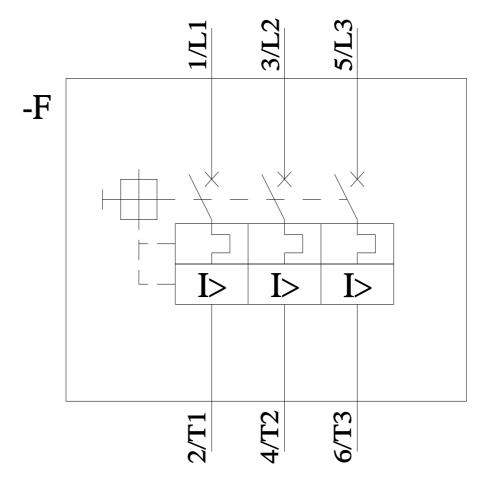
Characteristic: Tripping characteristics, I2t, Let-through current

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EB10/char}$

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4EB10&objecttype=14&gridview=view1





last modified: 11/21/2022 ☑