SIEMENS

Data sheet 3RV2031-4DA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 18...25 A N-release 325 A Screw terminal Standard switching capacity



size of the circuit-breaker size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch 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 • 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 • of auxiliary contacts typical • of auxiliary contacts (operating cycles) typical substance Prohibitance (Operating cycles) typical SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation 10 95 %	product brand name	SIRIUS
product type designation Soneral technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch e at AC in hot operating state per pole at AC in hot operating state per pole at AC in hot operating state per pole surge voltage resistance rated value insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of auxiliary contacts typical selectrical endurance (operating cycles) typical reference code according to IEC 81348-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions installation allitude at height above sea level maximum ambient temperature during operation - 4 during storage - 4 during transport - 50 +80 °C - 4 during transport - 50 +80 °C - 4 during transport - 50 +80 °C - 50 +80 °C - 10 +95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	product designation	Circuit breaker
size of the circuit-breaker size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch 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 surge voltage resistance rated value surge voltage 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 sof auxiliary contacts typical lectrical endurance (operating cycles) typical substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum during operation during operation during storage during transport relative humidity during operation sudjustable current response value current of the current-dependent overload release operating voltage	design of the product	For motor protection
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch e at AC in hot operating state e at AC in hot operating state per pole e at AC in hot operating state per pole e at AC in hot operating state per pole e at AC in hot operating state per pole e at AC in hot operating state per pole surge voltage resistance rated value surge voltage resistance rated value e 6k V surge voltage resistance rated value for ke will be surger voltage voltage resistance rated value for the main contacts typical for did unitial survice life (operating cycles) of the main contacts typical for did unitial survice life (operating cycles) of auxiliary contacts typical for did unitial experiments of the surger voltage surger vol	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 • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pol	General technical data	
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 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 of auxiliary contacts typical electrical endurance (operating cycles) typical substance Prohibitance (Date) SVHC substance Prohibitance (Date) SVHC substance name Lead -7439-92-1 Weight 1,054 kg Ambient conditions Installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation -20 +60 °C of 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 current-dependent overload release operating voltage	size of the circuit-breaker	S2
power loss [W] for rated value of the current • at AC in hot operating state	size of contactor can be combined company-specific	S2
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 25g / 11 ms Sinus mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts t	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 25g / 11 ms Sinus mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical ference code according to IEC 81346-2 Qu Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature of 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	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 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) • of the main contacts typical 50 000 • of auxiliary contacts typical 50 000 electrical endurance (operating cycles) typical 50 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15/2014 SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m 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	 at AC in hot operating state 	14.5 W
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 50 000 • of auxiliary contacts typical 50 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15//2014 SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage	 at AC in hot operating state per pole 	4.8 W
shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of auxi	insulation voltage with degree of pollution 3 at AC rated value	690 V
mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical felectrical endurance (operating cycles) typical ference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum of during operation of during storage of during transport relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	surge voltage resistance rated value	6 kV
of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical so 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/15/2014 SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring 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 50 000 0 000 10/15/2014 10/	shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage 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 50 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mechanical service life (operating cycles)	
electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg 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	 of the main contacts typical 	50 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • 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	 of auxiliary contacts typical 	50 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions installation altitude 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	electrical endurance (operating cycles) typical	50 000
SVHC substance name Lead - 7439-92-1 Weight 1.054 kg Ambient conditions 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	reference code according to IEC 81346-2	Q
Weight 1.054 kg 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	Substance Prohibitance (Date)	10/15/2014
installation altitude 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 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % Main circuit 18 25 A	SVHC substance name	Lead - 7439-92-1
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	Weight	1.054 kg
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 adjustable current response value current of the current-dependent overload release operating voltage	Ambient conditions	
 during operation during storage during transport 50 +80 °C 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 current-dependent overload release operating voltage 	installation altitude at height above sea level maximum	2 000 m
• during storage • during transport • 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 current-dependent overload release operating voltage -50 +80 °C -50 +80 °C 18 25 %	ambient temperature	
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 -50 +80 °C 10 95 % 18 25 A	during operation	-20 +60 °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	during storage	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	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 3 18 25 A	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release operating voltage	Main circuit	
dependent overload release operating voltage	number of poles for main current circuit	3
		18 25 A
• rated value 20 690 V	operating voltage	
	rated value	20 690 V
• at AC-3 rated value maximum 690 V	• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum 690 V	• at AC-3e rated value maximum	690 V

Special content nated value 25 A	operating frequency rated value	50 60 Hz
operational current # alt AC 3 di 400 V rated value 25 A # alt AC 3 di 400 V rated value 25 A # alt AC 3 di 400 V rated value 5.5 kW # alt AC 3 di 400 V rated value 5.5 kW # alt 400 V rated value 15 kW # alt 600 V rated value 15 kW # alt 600 V rated value 15 kW # alt AC 3 di 400 V rated value 15 kW # alt AC 3 di 400 V rated value 15 kW # alt AC 3 di 400 V rated value 15 kW # alt AC 3 di 400 V rated value 15 kW # alt AC 3 di 400 V rated value 15 kW # alt AC 3 di 400 V rated value 15 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 25 kW # alt AC 3 di 400 V rated value 35 kW # alt AC 3 di 400 V rated value 35 kW # alt AC 3 di 400 V rated value 35 kW # alt AC 3 di 400 V rated value 400 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V rated value 55 kW # alt AC 3 di 400 V	operating frequency rated value	
# alt ACS at 400 V rated value	-	LVA
• al AC-3 e 14-00 V roted value - at AC-30 - at 20 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 200 V rated value - at 500 V rated value - at 600 V rated value - at 600 V rated value - at AC-36 maximum - at AC-36 maximum - at AC-36 maximum - at AC-36 maximum - at 51 sh - at AC-36 maximum - at 51 sh - at AC-36 maximum - at 600 V rated value - at AC-36 maximum - at 600 V rated value - at AC-36 maximum - at 600 V rated value - at AC-36 maximum - at AC-36 maximum - at 600 V rated value - at AC-36 v rated value - at AC-30 V	-	25 A
operating power		
# ait AC-3		
		5.5 kW
at 690 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 600 V rated va	— at 400 V rated value	11 kW
	— at 500 V rated value	15 kW
— at 230 V rated value	— at 690 V rated value	22 kW
at 400 V rated value	• at AC-3e	
	— at 230 V rated value	5.5 kW
— at 680 V rated value 15 1/h	— at 400 V rated value	11 kW
Operating frequency	— at 500 V rated value	15 kW
	— at 690 V rated value	22 kW
** at AC-3e maximum Protective and monitoring functions product function • ground fault detection • product function • proaches and for a factor of the section of the	operating frequency	
Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • phase failure detection **Tip class • CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC 24 V0 Y 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 600 V rated value • at 7.5 hp • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 7.5 hp • at 220 V rated value • at 600 V rated value •	• at AC-3 maximum	15 1/h
product function • ground fault detection • phase failure detection • product function • phase failure detection • product function short circuit frop • product function short circuit	• at AC-3e maximum	15 1/h
eground fault detection Yes phase failure detection Yes trip class CLASS 10 design of the overload release themal maximum short-circuit current breaking capacity (Icu)	Protective and monitoring functions	
• phase failure detection Yes trip class CLASS 10 design of the overload release them al maximum short-circuit current breaking capacity (tcu) • at AC at 240 V rated value 56 KA • at AC at 500 V rated value 5 KA • at 240 V rated value 30 KA • at 240 V rated value 30 KA • at 400 V rated value 30 KA • at 400 V rated value 30 KA • at 400 V rated value 30 KA • at 500 V rated value 30 KA • at 500 V rated value 30 KA • at 400 V rated value 30 KA • at 400 V rated value 30 KA • at 400 V rated value 5 KA • at 500 V rated value 5 KA • at 400 V rated value 5 KA • at 500 V rated value 7.5 kp • at 200 V rated value 5 KA • at 200 V rated value 7.5 kp • at 200 V rated value 7.5 kp • at 200 V rated value 10 kp • at 200 V rated value 20 kp • at 200 V rated value 30 kp • at 240 V rated value 30 kp • at 240 V rated value 30 kp • at 240 V rated value 30 kp • at 340 V rated value 30 kp • at 350 V rated	product function	
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 400 V rated value at AC at 690 V rated value bit AC at 690 V rated value at 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 400 V rated value at 500 V rated value bit 600 V rated v	ground fault detection	No
design of the overload release maximum short-circuit current breaking capacity (leu) • at AC at 240 V rated value 65 kA • at AC at 4500 V rated value 12 kA • at AC at 500 V rated value 12 kA • at AC at 500 V rated value 12 kA • at AC at 690 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 890 V rated	phase failure detection	Yes
Maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value 100 kA 65 kA • at AC at 400 V rated value 12 kA 12 kA • at AC at 500 V rated value 5 kA • at AC at 690 V rated value 5 kA operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value 30 kA • at 400 V rated value 30 kA • at 400 V rated value 3 kA • at 500 V rated value 3 kA • at 600 V rated value 3 kA • at 600 V rated value 2 kA • at 600 V rated value 2 kA • at 600 V rated value 25 kA • at 480 V rated value 25 kA • at 230 V rated value 5 kpp • for single-phase AC motor 4 kg value 5 kpp • for 3-phase AC motor 7.5 kp • for 3-phase AC motor 4 kg value 5 kpp • for 3-phase AC motor 7.5 kp • at 220/230 V rated value 20 kp • at 460480 V rated value 20 kp • at 240 V monerating for the short-circuit frotection 4 kg design of the fuse link for IT network for short-circuit protection of the main circuit • at 440 V at 400 V • at 400 V at 400 V • at 400 V • at 400 V • at 400 V • at 600 V •	<u> </u>	CLASS 10
		thermal
e at AC at 400 V rated value e at AC at 500 V rated value 12 kA operating short-circuit current breaking capacity (Ics) at AC e at 240 V rated value 2 ta 400 V rated value 3 th 400 V rated value 3 th 400 V rated value 4 at 500 V rated value 5 kA e at 400 V rated value 6 kA 2 at 500 V rated value 7 ta 500 V rated value 8 th 400 V rated value 9 th 400 V rated value		
e at AC at 500 V rated value		
operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 240 V rated value at 500 V rated value at 690 V		
operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value 5 kA at 500 V rated value 5 kA response value current of instantaneous short-circuit trip unit 325 A UUCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 25 A at 800 V rated value 25 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 25 A yielded wechanical performance [hp] for 3-phase AC motor at 110/120 V rated value 5 hp for 3-phase AC motor at 220/230 V rated value 5 hp for 3-phase AC motor at 220/230 V rated value 5 hp for 3-phase AC motor at 200/208 V rated value 5 hp for 3-phase AC motor at 200/208 V rated value 5 hp short-circuit protection product function 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 a		
		5 kA
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 UUCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 25 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value b for 3-phase AC motor at 220/230 V rated value for 3-phase AC motor at 220/230 V rated value b for 3-phase AC motor at 220/230 V rated value b for 3-phase AC motor at 220/230 V rated value b for 3-phase AC motor at 25 hp b for 3-phase AC motor at 220/230 V rated value b for 3-phase AC motor at 25 hp b for 3-phase AC motor b for 3-phase AC motor at 25 hp b for 3-phase AC motor b for 3-phase AC motor at 26 hp b for 3-phase AC motor b for 3-phase AC motor b for 3-phase AC motor at 26 hp b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 200/200 V rated value b for 3-phase AC motor at 480/400 V rated value b for 3-phase AC motor at 480/400 V rated value b for 3-phase AC motor at 480/400 V rated value b for 3-phase AC motor at 480/400 V rated value b for 3-phase AC motor at 480/400 V rated value b f		
at 500 V rated value at 690 V rated value 3 kA 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 25 A at 600 V rated value 25 A yielded mechanical performance [hp] for single-phase AC motor —at 110/120 V rated value 2 hp —at 230 V rated value 5 hp for 3-phase AC motor —at 220/230 V rated value 7.5 hp —at 220/230 V rated value 2 hp —at 460/480 V rated value 2 hp —at 675/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic eat 240 V at 400 V at 500 V at		
at 690 V rated value response value current of instantaneous short-circuit trip unit 25 A UL/CSSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 25 A at 600 V rated value 25 A yielded mechanical performance [hp] of or single-phase AC motor at 110/120 V rated value 2 b p at 230 V rated value 5 h p of 3-phase AC motor at 220/230 V rated value 7.5 h p at 220/230 V rated value 2 b h p at 460/480 V rated value 2 b h p at 7.5 h p at 275/600 V rated value 2 b h p 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 500 V at 500 V at 690 V at		
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 • 25 A 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 • 10 hp — 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 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 400 V • at 500 V • at 690 V • at 690 V • at 690 V lossing of the fuse link for IT network for short-circuit protection of the main circuit • at 690 V • at 90 V •		
The first of th		
Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value 25 A • at 600 V rated value 25 A yielded mechanical performance [hp] • for single-phase AC motor 2 hp — at 110/120 V rated value 5 hp • for 3-phase AC motor 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 10 hp — at 220/230 V rated value 20 hp — at 460/480 V rated value 25 hp 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 400 V • at 4500 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position any		323 A
• at 480 V rated value • at 600 V rated value 25 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 675/600 V rated value 25 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 500 V • at 500 V • at 690 V at 690 V Installation/ mounting/ dimensions mounting position 2 hp 25 A 25 A 25 A 25 A 25 A 25 A 26 A 27 A 28 A 29 A 29 A 29 A 29 A 29 A 20		
● at 600 V rated value 25 A yielded mechanical performance [hp] For single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp ● 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 20 hp — at 575/600 V rated value 25 hp Short-circuit protection Yes 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 100 • at 500 V 80 • at 690 V 63 Installation/ mounting/ dimensions any		25 A
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp Short-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 and solve the short-circuit protection and solve the short-circuit protection of the short-circuit protection of the main circuit at 400 V 100 100 100 100 100 100 100 100 100		
for single-phase AC motor — at 110/120 V rated value		2071
- at 110/120 V rated value 2 hp - at 230 V rated value 5 hp ● for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 10 hp - at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp Short-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 and 20 pp 4.5 hp 2 hp 5 hp 7.5 hp 7.5 hp 10 hp 20 hp 25 hp Short-circuit protection Yes magnetic magnetic		
- at 230 V rated value 5 hp • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 10 hp - at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp Short-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 and rated value 25 hp		2 hp
of r 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 — st 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 • at 690 V Installation/ mounting/ dimensions mounting position at 7.5 hp 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.		·
- at 220/203 V rated value 7.5 hp - at 220/230 V rated value 10 hp - at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp Short-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		
— at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp 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	·	7.5 hp
- at 460/480 V rated value 20 hp 25 hp Short-circuit protection product function short circuit protection 4 design of the short-circuit trip 5 magnetic design of the fuse link for IT network for short-circuit protection of the main circuit 6 at 240 V none required 6 at 400 V 100 80 80 80 80 80 80 80 80 80 80 80 80 8		
- 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 500 V • at 690 V Installation/ mounting/ dimensions mounting position 25 hp Application Yes magnetic magnetic none required 100 80 63 Installation/ mounting/ dimensions any		·
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 Yes magnetic none required 100 80 63 Installation/ mounting/ dimensions any		·
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 Installation/ mounting/ dimensions mounting position Yes magnetic none required 100 80 63	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 none required • at 240 V none required • at 400 V 100 • at 500 V 80 • at 690 V 63 Installation/ mounting/ dimensions any		Yes
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 any	<u> </u>	magnetic
• at 400 V 100 • at 500 V 80 • at 690 V 63 Installation/ mounting/ dimensions mounting position any		
• at 500 V 80 • at 690 V 63 Installation/ mounting/ dimensions mounting position any	• at 240 V	none required
• at 690 V 63 Installation/ mounting/ dimensions mounting position any	• at 400 V	100
Installation/ mounting/ dimensions mounting position any	● at 500 V	80
mounting position any	• at 690 V	63
·	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	mounting position	any
	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

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	10 111111
— downwards	50 mm
— downwards — upwards	50 mm
— upwards — at the side	50 mm
	TO HILL
for grounded parts at 690 V	50 mm
— downwards	50 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
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)
Solid of stranded Tinely stranded with core end processing	
for AWG cables for main contacts	2x (1 16 mm²), 1x (1 25 mm²)
	2x (18 3), 1x (18 2)
tightening torque	0 4 5 N m
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	Mo
• for main contacts	M6
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 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

IEC 61508	
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







Confirmation



<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

Confirmation



Special Test Certific-

Confirmation







Environment

Environmental Confirmations

Further information

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=3RV2031-4DA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2031-4DA10}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DA10

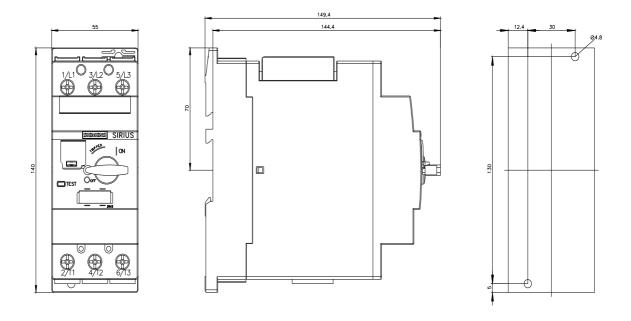
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

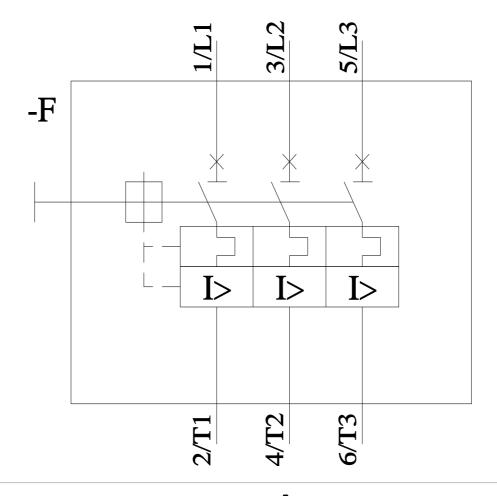
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4DA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4DA10&objecttype=14&gridview=view1





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