SIEMENS

Data sheet 3RV2021-4DA25





Circuit breaker size S0 for motor protection, CLASS 10 A-release 18...25 A N-release 325 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC



design of the product For product type designation 3F General technical data	ircuit breaker or motor protection RV2
design of the product For product type designation 3F General technical data	·
product type designation 3F General technical data	·
size of the circuit-breaker S0	0
size of contactor can be combined company-specific S0	00, S0
product extension auxiliary switch	es
power loss [W] for rated value of the current	
• at AC in hot operating state	0.5 W
• at AC in hot operating state per pole 3.	5 W
insulation voltage with degree of pollution 3 at AC rated value 69	90 V
surge voltage resistance rated value 6	kV
shock resistance according to IEC 60068-2-27 25	5g / 11 ms
mechanical service life (operating cycles)	
• of the main contacts typical	00 000
• of auxiliary contacts typical	00 000
electrical endurance (operating cycles) typical	00 000
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date)	0/01/2009
SVHC substance name	ead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum 2	000 m
ambient temperature	
• during operation -2	20 +60 °C
• during storage -5	50 +80 °C
• during transport -5	50 +80 °C
relative humidity during operation 10	0 95 %
Main circuit	
number of poles for main current circuit 3	
adjustable current response value current of the current- dependent overload release	8 25 A
operating voltage	
	0 690 V
• rated value 20	
	90 V
• at AC-3 rated value maximum 69	90 V 90 V

operational current rated value		
e at AC-2 at 400 V rated value 25 A operating power ● IA AC-3 at 230 V rated value 5.5 kW — at 400 V rated value 11 kW — at 500 V rated value 15 kW — at 600 V rated value 22 kW — at 400 V rated value 5.5 kW — at 500 V rated value 11 kW — at 500 V rated value 5.5 kW — at 600 V rated value 5.5 kW — at 600 V rated value 15 kW — at 600 V rated value 5.5 kW — at 600 V rated value 15 kW — at 600 v rated value 16 kW — at 600 v rated value 18 kW — at 600 v rated value 18 kW — at 600 v rated value 28 kW — at 600 v rated value 58 kW — at 600 v rated value 58 kW — at 600 v rated value 58 kW — at 600 v rated value 69 kW — at 600 v rated value 60 kW — at 600 v rated value 60 kW — at 600 v rated value	operational current rated value	25 A
## AAC-3c at 400 V rated value	•	
Section Sect	 at AC-3 at 400 V rated value 	
and AC-3	at AC-3e at 400 V rated value	25 A
	operating power	
	• at AC-3	
at 200 V rated value	— at 230 V rated value	5.5 kW
	— at 400 V rated value	11 kW
	— at 500 V rated value	15 kW
al 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
operating frequency • at AC-3 emaximum • at AC-3 emaximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • o. 5A • at 123 O V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V poperational current of auxiliary contacts at DC-13 • at 24 V • at 60 V poperational current of auxiliary contacts at DC-13 • at 24 V • at 60 V poperational current of auxiliary contacts at DC-13 • at 24 V • at 60 V product function • ground fault detection • product function • ground fault detection • phase failure detection • y'es trip class CLASS 10 design of the overload release design of the overload release file-mail maximum short-circuit current breaking capacity (icu) • 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 690 V rated value • at AC at 690 V rated value • at 400 V rated value •	— at 400 V rated value	11 kW
operating frequency at AC-3 maximum at AC-3 maximum at AC-3 maximum before the suxiliary switch number of NC contacts for auxiliary contacts at 24 V at 120 V at 125 V operational current of auxiliary contacts at AC-15 at 24 V at 125 V operational current of auxiliary contacts at DC-13 at 24 V at 125 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V protective and monitoring functions product function aground fault detection product function product function product function product function aground fault detection product function product function aground fault detection product function product function product function 10 No phase failure detection yes class 10 design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 24 V or 14ed value at AC at 400 V rated value at 400 V rate	— at 500 V rated value	15 kW
at AC-3 maximum 15 fth at AC-3e maximum 15 fth Auxiliary circuit design of the auxiliary switch 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 operational current of auxiliary contacts at AC-15 at 24 V 2 A at 120 V 0.5 A at 120 V 0.5 A operational current of auxiliary contacts at DC-13 at 124 V 1.5 V 0.5 A operational current of auxiliary contacts at DC-13 at 24 V 1.5 V 0.5 A reproduct function ground fault detection Ves ryic class CLASS 10 design of the overload release 5 maximum short-circuit current breaking capacity (icu) at AC at 240 V rated value 55 kA at AC at 400 V rated value 55 kA at AC at 400 V rated value 4 kA operating short-circuit current breaking capacity (ics) at AC at AC at 400 V rated value 5 kA at AC at 400 V rated value 4 kA operating short-circuit current breaking capacity (ics) at AC at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at AC at 400 V rated value 5 kA at 660 V rated value 5 kA at 660 V rated value 5 kA at 660 V rated value 25 kA at 660 V rated value 35 kB	— at 690 V rated value	22 kW
at AC-3e maximum Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts at 24 V 2 A at 120 V at 125 V 5 A at 230 V operational current of auxiliary contacts at AC-15 at 24 V 10.5 A at 230 V operational current of auxiliary contacts at DC-13 at 24 V 11.6 at 24 V at 20 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V contacts and monitoring functions product function operating short and evaluate detection at AC at 240 V rated value at AC at 400 V rated value at AC at 660 V rated value at 600 V rated value 25 kA st 600 V rated value at 600 V rated value 25 kA st 600 V rated value 26 kA st 600 V rated value 27 kA 28 A st 600 V rated value 28 kA st 600 V rated value 29 kA at 600 V rated value 30 kPA at 600 V rated value 30 kPA at 600 V rated value 400 V rated value 500 kPA	operating frequency	
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 * at 24 V 2 A * at 120 V 0.5 A * at 125 V 0.5 A * at 230 V 0.5 A operational current of auxiliary contacts at DC-13 * at 24 V 1.5 A * at 24 V 1.5 A * at 24 V 1.5 A * at 60 V 0.15 A operational current of auxiliary contacts at DC-13 * at 60 V 0.15 A Protective and monitoring functions product function * ground fault detection No * phase failure detection Yes trip class design of the overload rolease maximum short-circuit current breaking capacity (Icu) * at AC at 240 V rated value * at AC at 400 V rated value * at AC at 400 V rated value * at AC at 4500 V rated value * at AC at 680 V rated value * at AC at 680 V rated value * at AC at 400 V rated value * at AC at 400 V rated value * at AC of vol V rated value * at 400 V rated val	• at AC-3 maximum	15 1/h
design of the auxiliary switch	• at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 4 at 24 V 2 A * at 125 V 0.5 A 0.5 A * at 230 V 0.5 A 0.5 A * operational current of auxiliary contacts at DC-13 1 A * at 60 V 0.15 A * Protective and monitoring functions * product function No * phase failure detection Yes * trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) * at AC at 240 V rated value * at AC at 400 V rated value 10 kA * at AC at 500 V rated value 4 kA * at AC at 500 V rated value 25 kA * at 400 V rated value 25 kA * at 600 V rat	Auxiliary circuit	
Number of NO contacts for auxiliary contacts 1	design of the auxiliary switch	transverse
number of CO contacts for auxiliary contacts at AC-15 operational current of auxiliary contacts at AC-15 operational current of auxiliary contacts at AC-15 operational current of auxiliary contacts at CO-5 A operational current of auxiliary contacts at DC-13 operational current for auxiliary contacts at DC-13 operational current for auxiliary contacts at DC-13 operational current for auxiliary contacts at DC-13 No operational current for auxiliary contacts at DC-13 No operational current for for application of the formal for a formal for auxiliary contacts at DC-13 version of the overload release trip class design of the overload release thermal maximum short-circuit current breaking capacity (Icu) operation of the overload release thermal maximum short-circuit current breaking capacity (Icu) operation of the overload release thermal maximum short-circuit current breaking capacity (Icu) operation of the overload release thermal maximum short-circuit current breaking capacity (Icu) operation of the overload release thermal maximum short-circuit current breaking capacity (Icu) operation of the overload release thermal nation of the overload release thermal nat	number of NC contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	number of NO contacts for auxiliary contacts	1
	number of CO contacts for auxiliary contacts	0
	operational current of auxiliary contacts at AC-15	
	• at 24 V	2 A
	• at 120 V	0.5 A
operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V 0.15 A 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 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • 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 800 V rated value • at 600 V rated value • 50 A	• at 125 V	0.5 A
at 24 V at 60 V 0.15 A Protective and monitoring functions product function aground fault detection by eground fault detection companies aflure aflure companies aflure aflure aflure companies aflure aflure aflure companies aflure companie	• at 230 V	0.5 A
• at 60 V Protective and monitoring functions product function • ground fault detection • phase failure detection Yes CLASS 10 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 AC at 690 V rated value • at AC at 690 V rated value • at AC of 500 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • 25 kA • at 690 V rated value • 25 kA • at 690 V rated value • 25 kA • at 690 V rated value • 25 kA • at 690 V rated value • 25 kA • at 400 V rated value • 25 kA • at 200 V rated value • 25 kA • at 200 V rated value • 25 kA • at 300 V rated value • 25 kA • at 400 V rated value • 25 kA • at 400 V rated value • 25 kA • at 400 V rated value • 25 kA • at 600 V rated value • 25 kA • at 600 V rated value • at 400 V rated value • 25 kA • at 600 V rated value • at 300 V rated value • 25 kA • at 600 V rated value • at 300 V rated value • at 600 V	operational current of auxiliary contacts at DC-13	
Protective and monitoring functions product function • ground fault detection • phase failure detection Yes 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 550 V rated value • at AC at 550 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 400 V rated value • at 690 V rated value • at 690 V rated value 2 kA 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 • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 25 A 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 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • 5 hp	• at 24 V	1 A
product function • ground fault detection • phase failure detection Yes CLASS 10 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 AC at 690 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 AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 690 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 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 • 5 hp	• at 60 V	0.15 A
ground fault detection phase failure detection Yes trip class CLASS 10 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 AC at 690 V rated value at 400 V rated value beat 400 V rated value at 400 V rated value at 400 V rated value at 400 V rated value beat 400 V rated value at 400 V ra	Protective and monitoring functions	
• 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 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 101/102 V rated value • at 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 • 5 hp	product function	
• 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 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 101/102 V rated value • at 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 • 5 hp	ground fault detection	No
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 vated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 690 V rated value	-	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 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 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 • 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 690 V rated value 25 A • at 600 V rated value 25 A vielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp	trip class	CLASS 10
 at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value 4 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 500 V rated value at 690 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 25 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value aprince (Ip) for single-phase AC motor at 230 V rated value ahp for 3-phase AC motor at 200/208 V rated value bp 	design of the averland release	thermal
 at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value 4 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 500 V rated value at 690 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 25 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value aprince (Ip) for single-phase AC motor at 230 V rated value ahp for 3-phase AC motor at 200/208 V rated value bp 	design of the overload release	
at AC at 400 V rated value at AC at 500 V rated value 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 bit 500 V rated value at 690 V rated value bit 690 V rated value cesponse 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 bit 600 V rated value cesponse value current of instantaneous short-circuit trip unit 25 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value cesponse value value cesponse value current (FLA) for 3-phase AC motor at 110/120 V rated value cesponse value cesponse value value cesponse v		
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 25 kA at 500 V rated value 5 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 325 A UL/CSA 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 2 hp - at 230 V rated value 5 hp	maximum short-circuit current breaking capacity (Icu)	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 25 kA at 500 V rated value 5 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 325 A UL/CSA 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 2 hp - at 230 V rated value 5 hp	maximum short-circuit current breaking capacity (Icu) • at AC at 240 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 response value current of instantaneous short-circuit trip unit 25 kA response value current of instantaneous short-circuit trip unit 325 A 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 3 hp • for 3-phase AC motor — at 200/208 V rated value 5 hp	maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	55 kA
 at 240 V rated value at 400 V rated value at 500 V rated value 5 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 325 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 5 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 200 V rated value 3 hp for 3-phase AC motor at 200/208 V rated value 5 hp 	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	55 kA 10 kA
 at 400 V rated value at 500 V rated value 5 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 325 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 5 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 2 hp at 230 V rated value 3 hp for 3-phase AC motor at 200/208 V rated value 5 hp 	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 690 V rated value	55 kA 10 kA
at 500 V rated value at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 325 A 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] af 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 5 hp	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 690 V rated value operating short-circuit current breaking capacity (Ics) at AC	55 kA 10 kA 4 kA
 at 690 V rated value response value current of instantaneous short-circuit trip unit 325 A 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 2 hp — at 230 V rated value 3 hp for 3-phase AC motor — at 200/208 V rated value 5 hp 	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 690 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value	55 kA 10 kA 4 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 • 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 5 hp	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 690 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value	55 kA 10 kA 4 kA 100 kA 25 kA
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 3 hp • for 3-phase AC motor — at 200/208 V rated value 5 hp	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 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	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA
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 — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 5 hp	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 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	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA
 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 at 230 V rated value for 3-phase AC motor at 200/208 V rated value 5 hp 	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 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 response value current of instantaneous short-circuit trip unit	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA
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 5 hp	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 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 response value current of instantaneous short-circuit trip unit UL/CSA ratings	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 5 hp	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 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 response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A
 for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 3 hp for 3-phase AC motor — at 200/208 V rated value 5 hp 	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 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 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	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A
— at 110/120 V rated value 2 hp — at 230 V rated value 3 hp ● for 3-phase AC motor — at 200/208 V rated value 5 hp	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 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 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	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A
— at 230 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 5 hp	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 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 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 vielded mechanical performance [hp]	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A
for 3-phase AC motor — at 200/208 V rated value 5 hp	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 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 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 vielded mechanical performance [hp] • for single-phase AC motor	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A
— at 200/208 V rated value 5 hp	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 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 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 vielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A 25 A 25 A
	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 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 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 yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A 25 A 25 A
— at 220/230 V rated value 7.5 hp	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 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 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 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	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A 25 A 2 hp 3 hp
	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 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 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 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	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A 25 A 25 A 2 hp 3 hp 5 hp
— at 460/480 V rated value 15 hp	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 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 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 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 — at 220/230 V rated value — at 220/230 V rated value	55 kA 10 kA 4 kA 100 kA 25 kA 5 kA 2 kA 325 A 25 A 25 A 25 h 5 hp 7.5 hp

contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	0300717300
	Yes
product function short circuit protection	
design of the short-circuit trip	magnetic
design of the fuse link	5 1/0 40 A 111 1 00 A / I / I I I 400
for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gL/gG 63 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 50 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	119 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded 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 10 mm²)
finally atransfer to the same and	2x (1 6 mm²)
 finely stranded with core end processing 	27 (1 0 11111)
— finely stranded with core end processing — finely stranded without core end processing	2x (1 6 mm²)

 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
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
overdimensioning according to ISO 13849-2 necessary	Yes
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 Railway Environment



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=3RV2021-4DA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4DA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4DA25

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

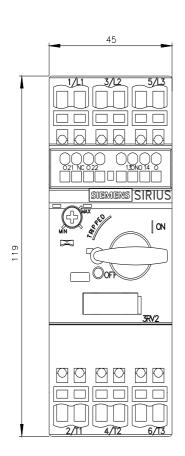
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4DA25&lang=en

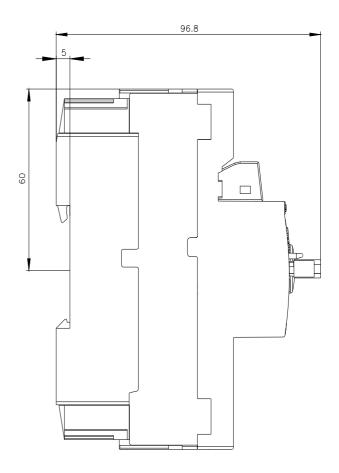
Characteristic: Tripping characteristics, I2t, Let-through current

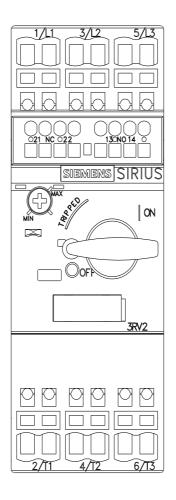
nttps://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4DA25/cnar

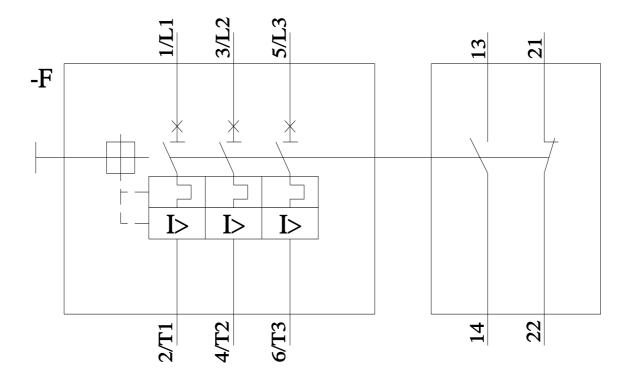
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4DA25&objecttype=14&gridview=view1









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