SIEMENS

Data sheet 3RV2011-1AA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
eneral technical data	000
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	7.25 W
at AC in hot operating state per pole	2.4 W
nsulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
of the main contacts typical	100 000
of auxiliary contacts typical	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
nbient conditions	
nstallation 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 %
ain circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	1.1 1.6 A
operating voltage	
• rated value	20 690 V
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1.6 A
operational current	
•	

** at AC-3 et 4 400 V rated value		
■ al 200 V rated value		1.6 A
	operating power	
	• at AC-3	
at 590 V rated value	— at 230 V rated value	0.3 kW
at 990 V rated value	— at 400 V rated value	0.55 kW
	— at 500 V rated value	0.8 kW
	— at 690 V rated value	1.1 kW
	• at AC-3e	
	— at 230 V rated value	0.3 kW
oprating frequency	— at 400 V rated value	0.55 kW
operating frequency	— at 500 V rated value	0.8 kW
at AC-3 maximum at AC-3 maximum Auxillary circuit design of the auxillary switch number of NC contacts for auxillary contacts • number of NC contacts for auxillary contacts • number of CO contacts for auxillary contacts • number of CO contacts for auxillary contacts • 1 number of CO contacts for auxillary contacts • 1 number of CO contacts for auxillary contacts • 2 A at 120 V 5 A at 120 V 6 A at 125 V 6 A at 230 V 0.5 A operational current of auxillary contacts at DC-13 at 24 V at 80 V 7 Cotective and monitoring functions Protective and monitoring functions Protective and monitoring functions Protective and monitoring functions CLASS 10 design of the overload release maximum short-circuit current breaking capacity (fcu) at AC at 240 V rated value at AC at 480 V rated value at 400 V rated	— at 690 V rated value	1.1 kW
e at AC-3e maximum Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • 1 number of NO contacts for auxiliary contacts • 1 number of NO contacts for auxiliary contacts • 1 number of CO contacts for auxiliary contacts • 1 number of NO contacts for auxiliary contacts • 2 A • at 24 V • at 125 V • at 230 V • at 230 V • at 230 V • at 60 V Protective and monitoring functions No • at 800 V rated value • at AC at 800 V rated value • at 800 V	operating frequency	
Auxiliary circuit design of the auxiliary switch	• at AC-3 maximum	15 1/h
design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 2 number of CO contacts for auxiliary contacts 3 1 number of CO contacts for auxiliary contacts 4 at 24 V 2 4 at 120 V 0.5 A 5 at 125 V 0.5 A 6 at 125 V 0.5 A 7 operational current of auxiliary contacts at DC-13 2 at 24 V 1 A 2 at 80 V 0.15 A 7 operational current of auxiliary contacts at DC-13 2 at 24 V 1 A 3 at 80 V 0.15 A 7 rotective and monitoring functions product function 2 ground fault detection 4 ground fault detection 4 phase failure detection 5 yes 4 contact and the overload release 4 maximum short-circuit current breaking capacity (Icu) 4 at AC at 240 V rated value 5 at AC at 400 V rated value 5 at AC at 400 V rated value 6 at AC at 400 V rated value 7 at AC at 400 V rated value 8 at AC at 500 V rated value 9 at AC at 400 V rated value 100 kA	• at AC-3e maximum	15 1/h
design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 2 number of CO contacts for auxiliary contacts 3 1 number of CO contacts for auxiliary contacts 4 at 24 V 2 4 at 120 V 0.5 A 5 at 125 V 0.5 A 6 at 125 V 0.5 A 7 operational current of auxiliary contacts at DC-13 2 at 24 V 1 A 2 at 80 V 0.15 A 7 operational current of auxiliary contacts at DC-13 2 at 24 V 1 A 3 at 80 V 0.15 A 7 rotective and monitoring functions product function 2 ground fault detection 4 ground fault detection 4 phase failure detection 5 yes 4 contact and the overload release 4 maximum short-circuit current breaking capacity (Icu) 4 at AC at 240 V rated value 5 at AC at 400 V rated value 5 at AC at 400 V rated value 6 at AC at 400 V rated value 7 at AC at 400 V rated value 8 at AC at 500 V rated value 9 at AC at 400 V rated value 100 kA	Auxiliary circuit	
number of NC contacts for auxiliary contacts		transverse
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts at AC-15 at 24 V at 120 V at 120 V at 125 V obs A at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V poperational current of auxiliary contacts at DC-13 at 25 V obs A at 26 V protective and monitoring functions product function operating full detection ves class CLASS 10 design of the overload release design of the overload release maximum short-circuit current breaking capacity (leu) at AC at 240 V rated value at AC at 500 V rated value obs AC Cat 650 V rated value operating short-circuit current breaking capacity (les) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA 16 A at 400 V rated value 100 kA 16 A at 400 V rated value 100 kA 16 A at 400 V rated value 100 kA 16 A at 400 V rated value 100 kA 16 A at 400 V rated value 100 kA 16 A 18 A yielded mechanical performance (hp) of or single-phase AC motor		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at 24 V 2A at 125 V 0.5 A at 230 V 0.5 A operational current of auxiliary contacts at DC-13 at 24 V 1A at 25 V 0.5 A at 28 V 1A at 20 V 15 A at 30 V 15 A at 30 V 15 A Protective and monitoring functions product function ground fault detection Ves 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 340 V rated value at AC at 500 V rated value at AC at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 600 V rated value	·	1
number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V 2 0.5 A • at 120 V 0.5 A • at 120 V 0.5 A • at 230 V 0.5 A operational current of auxiliary contacts at DC-13 • at 24 V 1 1 A • at 60 V 0.15 A Protective and monitoring functions product function • ground fault detection Ves • phase failure detection Ves trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value 100 kA • at AC at 440 V rated value 100 kA • at AC at 4500 V rated value 100 kA • at AC at 4500 V rated value 100 kA • at AC at 680 V rated value 100 kA • at 40 V rated value 100 kA • at 40 V rated value 100 kA • at 400 V rated value 100 kA		
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at 24 V at 120 V at 120 V ot 5 A operational current of auxiliary contacts at DC-13 at 24 V at 30 V operational current of auxiliary contacts at DC-13 at 24 V at 80 V or 15 A Protective and monitoring functions product function ground fault detection of ground fault detection of ground fault detection of 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 400 V rated value at AC at 4500 V rated value at AC at 4500 V rated value operating short-circuit current breaking capacity (ics) at AC at 400 V rated value at 480 V rated value at 500 V rated value at 600 V rat	·	1
operational current of auxiliary contacts at AC-15 • at 24 V 2, at 125 V 0,5 A 1250 V 0,5 A 1230 V 1,5 A 124 V 1,5 A 160		
• at 24 V • at 120 V • at 125 V • at 125 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V Protective and monitoring functions product function • ground fault detection • ground fault detection • ground fault detection • phase failure detection • Yes trip class	·	
		2 A
• at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V Protective and monitoring functions product function • ground fault detection • phase failure detection 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 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 500 V rated value • at AC at 500 V rated value • at Experimental current breaking capacity (Ics) at AC • at 240 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 7576600 V rated value • at 600 V rated value • at 600 V rated value • for 3-phase AC motor • at 460 V rated value • for 3-phase AC motor • at 460 V rated value • for 3-phase AC motor • at 460 V rated value • for 3-phase AC motor • at 460 V rated value • for 3-phase AC motor • at 460 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC mot		
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 * op phase failure detection 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 500 V rated value • at AC at 690 V rated value • at AC of 400 V rated value • at 600		
		0.5 A
• at 60 V Protective and monitoring functions product function • ground fault detection • ground fault detection • phase failure detection • ground fault detection • ground fault detection • 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 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 • at 500 V rated value • at 500 V rated value • at 690 V rated	-	
Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • product function • 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 AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 800 V rated value • at 600 V rated value • at 800 V rated value • at 240 V rated value • at 240 V rated value • at 800 V rated value • at 480 V rated value • at 600 V rated value • at 750 V rated value • at 800 V rated		
product function ● ground fault detection ● phase failure detection ▼es 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 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 400 V rated value ● at 400 V rated value ● at 500 V rated value ● at 500 V rated value ● at 500 V rated value ● at 600 V rated value ● at 600 V rated value ■ 100 kA ■ at 600 V rated value ■ 100 kA ■ at 600 V rated value ■ 1.6 A ■ at 600 V rated value ■ 0.1 hp ■ for 3-phase AC motor — at 230 V rated value ■ 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection		U.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 operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value 100 kA • at 400 V rated value • at 690 V rated value 100 kA in 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 1.6 A • at 600 V rated value 1.7 A • at 600 V rated value 1.8 A • at 600 V rated value 1.9 A • for 3-phase AC motor - at 230 V rated value 1.0 A • for 3-phase AC motor - at 240 V rated value 1.0 A • for 3-phase AC motor - at 2575/600 V rated value 0.1 hp • for 3-phase AC motor - at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
phase failure detection 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 at 500 V rated value at 690 V rated value at 600 V rated value at 600 V rated value at 480 V rated value bf or 3-phase AC motor at 230 V rated value at 60/480 V rated value bf or 3-phase AC motor at 480 V rated value bf or 3-phase AC motor at 480 V rated value bf or 3-phase AC motor at 480 V rated value cf or 3-phase AC motor at 480 V rated value 0.1 hp at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	•	
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 AC at 240 V rated value at AC at 240 V rated value at AC at 690 V rated value too 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 600 V rated value for single-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	-	
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 400 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 240 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 480 V rated value • at 600 V rated value • at 575/600 V rated value • o.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
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 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 600 V rated value be or single-phase AC motor at 230 V rated value at 600 V rated value be for 3-phase AC motor at 460/480 V rated value at 600 V rated value be or 3-phase AC motor at 460/480 V rated value be or 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	·	
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 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 500 V rated value at 690 V rated value at 230 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 230 V rated value at 230 V rated value at 690 V rated value		thermal
 at AC at 400 V rated value at AC at 500 V rated value 100 kA at AC at 690 V rated value 100 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 700 kA Tul/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 230 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value 1 hp of 3-phase AC motor at 460/480 V rated value 1 hp at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	maximum short-circuit current breaking capacity (lcu)	
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 100 kA at 500 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 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 1.6 A yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 0.1 hp for 3-phase AC motor at 460/480 V rated value 1 hp at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	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 too 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 for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value at 675/600 V rated value at 675/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	 at AC at 400 V rated value 	100 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 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA response value current of instantaneous short-circuit trip unit 21 A UL/CSA ratings	 at AC at 500 V rated value 	100 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 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 1.6 A yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value for 3-phase AC motor — at 460/480 V rated value at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	at AC at 690 V rated value	100 kA
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 1.6 A yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value for 3-phase AC motor — at 460/480 V rated value at 600 V rated value on 1 hp for 3-phase AC motor at 450/480 V rated value 0.1 hp for 3-phase AC motor at 450/480 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	operating short-circuit current breaking capacity (lcs) at AC	
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 21 A 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 230 V rated value of for 3-phase AC motor - at 230 V rated value of for 3-phase AC motor - at 460/480 V rated value 1 hp - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	• at 240 V rated value	100 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit 21 A ULI/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 1.6 A at 600 V rated value 1.6 A yielded mechanical performance [hp] for single-phase AC motor - at 230 V rated value 0.1 hp for 3-phase AC motor - at 460/480 V rated value 1 hp - at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	• at 400 V rated value	100 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 • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 460/480 V rated value 1 hp — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	• at 500 V rated value	100 kA
## DUL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	at 690 V rated value	100 kA
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 1.6 A yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 460/480 V rated value 1 hp — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	response value current of instantaneous short-circuit trip unit	21 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 1.6 A yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 460/480 V rated value 1 hp — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	UL/CSA ratings	
at 480 V rated value at 600 V rated value 1.6 A yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value 1 hp at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		
● at 600 V rated value yielded mechanical performance [hp] ● for single-phase AC motor — at 230 V rated value ● for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	run-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		1.6 A
for single-phase AC motor — at 230 V rated value of r3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection O.1 hp 1 hp 0.8 hp C300 / R300	• at 480 V rated value	
— at 230 V rated value • for 3-phase AC motor — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	at 480 V rated value at 600 V rated value	
● for 3-phase AC motor — at 460/480 V rated value 1 hp — at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL C300 / R300 Short-circuit protection	at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	
- at 460/480 V rated value 1 hp - at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL C300 / R300 Short-circuit protection	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor	1.6 A
— at 575/600 V rated value 0.8 hp contact rating of auxiliary contacts according to UL C300 / R300 Short-circuit protection	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value	1.6 A
contact rating of auxiliary contacts according to UL C300 / R300 Short-circuit protection	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value for 3-phase AC motor	1.6 A 0.1 hp
Short-circuit protection	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value for 3-phase AC motor — at 460/480 V rated value	1.6 A 0.1 hp 1 hp
	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value at 575/600 V rated value	1.6 A 0.1 hp 1 hp 0.8 hp
Was alles alles alles at a least a least a least a straight and the least a le	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL	1.6 A 0.1 hp 1 hp 0.8 hp
product function short circuit protection Yes	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	1.6 A 0.1 hp 1 hp 0.8 hp C300 / R300

design of the short-circuit trip	magnetic
design of the fuse link	
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 500 V	gL/gG 20 A
• at 690 V	gL/gG 16 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	106 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 (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 4 mm) 2x (0.5 2.5 mm²)
— finely stranded with core end processing — finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for main contacts	2x (20 12)
type of connectable conductor cross-sections	£A (£V 12)
• for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
Solid of stranded finely stranded with core end processing	2x (0.5 2.5 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	
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
 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
IEC 61508	
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 version for switching status	Handle
Approvals Certificates	
General Product Approval	

General Product Ap-

Confirmation

<u>KC</u>

proval

For use in hazardous locations

Test Certificates

Marine / Shipping







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

Type Test Certificates/Test Report



Marine / Shipping









Miscellaneous

other

other

Railway

Environment

Confirmation



Confirmation



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=3RV2011-1AA25

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-1AA25}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA25

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

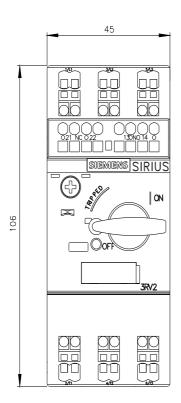
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1AA25&lang=en

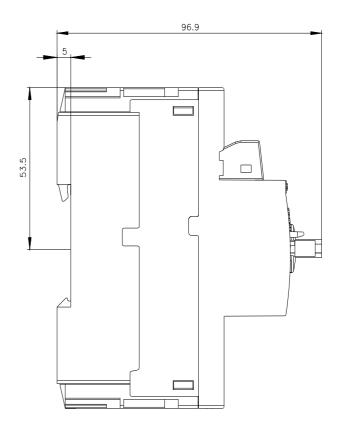
Characteristic: Tripping characteristics, I²t, Let-through current

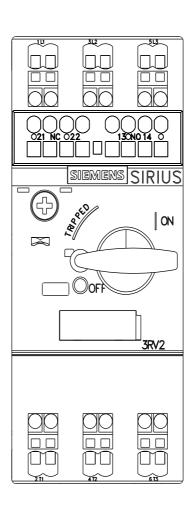
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA25/char

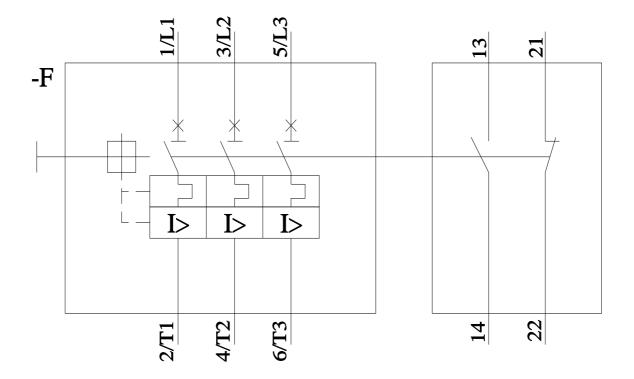
Further characteristics (e.g. electrical endurance, switching frequency)

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