SIEMENS

Data sheet

3RV2411-1KA15



Circuit breaker size S00 for transformer protection A-release 9...12.5 A N-release 260 A screw 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 transformer protection			
product type designation	3RV2			
General technical data				
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 	9.25 W			
 at AC in hot operating state per pole 	3.1 W			
insulation voltage with degree of pollution 3 at AC rated value	690 V			
surge voltage resistance rated value	6 kV			
shock resistance according to IEC 60068-2-27	25g / 11 ms			
mechanical service life (switching cycles)				
 of the main contacts typical 	100 000			
 of auxiliary contacts typical 	100 000			
electrical endurance (switching cycles) typical	100 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2009			
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	9 12.5 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	12.5 A			
operational current				
• at AC-3 at 400 V rated value	12.5 A			

 at AC-3e at 400 V rated value 	12.5 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
● at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
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	
• 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 A
• at 60 V	0.15 A
Protective and monitoring functions	
product function	
	Ne
 ground fault detection 	No
 ground fault detection phase failure detection	No Yes
-	
phase failure detection	Yes
phase failure detection trip class	Yes CLASS 10
phase failure detection trip class design of the overload release	Yes CLASS 10
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu)	Yes CLASS 10 thermal
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) e at AC at 240 V rated value e at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 240 V rated value • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 690 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA
phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 240 V rated value at 400 V rated value at 690 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA
• phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 600 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 260 A
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value tube current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 260 A
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value ILI/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 260 A
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value 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 at 600 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 260 A
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value below V rated value below V rated value below V rated value at 480 V rated value below V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA 260 A 12.5 A 12.5 A 12.5 A
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value trip class transponse value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 200 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA 260 A 12.5 A 12.5 A 12.5 A
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 600 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA 260 A 12.5 A 12.5 A 12.5 A 0.5 hp 2 hp
 phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 690 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 260 A 12.5 A 12.5 A 12.5 A 3 hp

contact rating of auxiliary contacts according to UL	C300 / R300			
Short-circuit protection				
product function short circuit protection	Yes			
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 400 V	gL/gG 63 A			
• at 500 V	gL/gG 50 A			
• at 690 V	gL/gG 40 A			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
height	97 mm			
width	45 mm			
depth	97 mm			
required spacing				
 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 	5 11111			
— downwards	50 mm			
— upwards	50 mm			
— upwards — backwards				
	0 mm 30 mm			
— at the side				
— forwards	0 mm			
• for live parts at 690 V	50 mm			
— 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 	screw-type terminals			
 for auxiliary and control 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 (0,75 2,5 mm²), 2x 4 mm²			
 — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 at AWG cables for main contacts 	2x (18 14), 2x 12			
type of connectable conductor cross-sections				
for auxiliary contacts				

— solid or stra			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
	led with core end proc	-				
	or auxiliary contacts		2x (20 16), 2x (1	8 14)		
tightening torque		in a la	0.0 4.0 N			
	s with screw-type term		0.8 1.2 N·m			
	acts with screw-type t		0.8 1.2 N·m			
design of screwdriver			Diameter 5 to 6 mr	n		
size of the screwdrive	-		Pozidriv size 2			
design of the thread o	of the connection sc	rew				
 for main contacts 			M3			
 of the auxiliary ar 	nd control contacts		M3			
Safety related data						
B10 value						
 with high demand 	d rate according to SN	31920	5 000			
proportion of dangero						
	rate according to SN	31920	50 %			
	d rate according to SN		50 %			
		1 3 1 9 2 0	50 %			
failure rate [FIT]						
	rate according to SN		50 FIT			
T1 value for proof test i IEC 61508	interval or service life	according to	10 y			
protection class IP or 60529	n the front according	to IEC	IP20			
touch protection on t	he front according to	DIEC 60529	finger-safe, for vert	tical contact from the front		
display version for swite	ching status		Handle			
Certificates/ approvals						
General Product App	oroval				Declaration of Conformity	
	<u>Confirmation</u>) EHC	UK CA	
Declaration of Conformity	Test Certificates		Marine / Sł	nipping		
C C EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Cer</u> <u>ate</u>	tific-	B UREAU VERITAS		
Marine / Shipping				other		
Lloyds Register us	PRS	RINA	RMRS	Confirmation	UDE VDE	
Railway						
Vibration and Shock	Confirmation					

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1KA15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1KA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1KA15&objecttype=14&gridview=view1

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