SIEMENS

Data sheet

3RV2411-1CA15



Circuit breaker size S00 for transformer protection A-release 1.8...2.5 A N release 52 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 	7.25 W		
 at AC in hot operating state per pole 	2.4 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	1.8 2.5 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	2.5 A		
operational current			
 at AC-3 at 400 V rated value 	2.5 A		

at AC_3a at 400 V rated value	2.5 A
at AC-3e at 400 V rated value	2.0 A
operating power • at AC-3	
	0.4 kW
— at 230 V rated value	
— at 400 V rated value	0.8 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	1.1 kW
at 690 V rated value	1.5 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	
 ground fault detection 	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (lcu)	
 at AC at 240 V rated value 	100 kA
• at AC at 400 V rated value	100 kA
 at AC at 400 V rated value at AC at 500 V rated value	100 kA 100 kA
 at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value 	100 kA
 at AC at 400 V rated value at AC at 500 V rated value	100 kA 100 kA
 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 (lcs)	100 kA 100 kA
 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	100 kA 100 kA 10 kA
 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 (lcs) at AC at 240 V rated value 	100 kA 100 kA 10 kA 100 kA
 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 	100 kA 100 kA 10 kA 100 kA 100 kA
 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 500 V rated value 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA
 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 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA
 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 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA
 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 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA
 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 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 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 52 A
 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 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 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A
 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 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 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A
 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 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 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A
 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 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 at 600 V rated value 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A 2.5 A
 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 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 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A 2.5 A 2.5 A 0.17 hp
 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 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 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A 2.5 A 0.17 hp 0.5 hp
 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 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 600 V rated value 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A 2.5 A 0.17 hp 0.5 hp 0.5 hp
 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 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 at 200 / 208 V rated value at 200/208 V rated value at 220/230 V rated value 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A 2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp
 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 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 at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 100 kA 52 A 2.5 A 2.5 A 0.17 hp 0.5 hp 0.5 hp

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	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current		
required	lk < 400 A		
design of the fuse link for IT network for short-circuit			
protection of the main circuit			
• at 400 V	gL/gG 25 A		
• at 500 V	gL/gG 25 A		
• at 690 V	gL/gG 20 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			
— 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		
— downwards — upwards	50 mm		
— upwards — backwards	0 mm		
— at the side	30 mm		
— ar the side — forwards	0 mm		
Connections/ Terminals			
type of electrical connection • for main current circuit	screw-type terminals		
 for main current circuit for auxiliary and control circuit 	screw-type terminals screw-type terminals		
arrangement of electrical connectors for main current	Top and bottom		
circuit			
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 stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		

essing					
	X (20 10), 2X (18 14)			
	0.0 4.0 N				
for main contacts with screw-type terminals					
for auxiliary contacts with screw-type terminals		0.8 1.2 N·m			
design of screwdriver shaftsize of the screwdriver tip					
	Pozidriv size 2				
ew					
	M3				
31920	5 000				
31920	50 %				
31920	50 %				
31920	50 FIT				
according to	10 y				
to IEC	IP20				
IEC 60529	finger-safe, for vertical cor	tact from the front			
	Handle				
Test Certific	ates	Marine / Shipping			
			(117)		
		ABS	B U REAU VERITAS		
			other		
PRS	RINA	RMRS RMRS	<u>Confirmation</u>		
Vibration and	<u>Shock</u>				
gs, Brochures,					
	inals erminals ew 31920 31920 31920 31920 according to to IEC DIEC 60529 DIEC 60529 CCC Test Certific Type Test Certific Type Test Certific Type Test Certific Type Test Certific	2x (20 16), 2x (18 14inals0.8 1.2 N·mpriminals0.8 1.2 N·mDiameter 5 to 6 mmPozidriv size 2ewM3 M3319205 0003192050 %3192050 %3192050 FITaccording to10 yto IECIP20IEC 60529finger-safe, for vertical cor HandleTest CertificSpecial Test CertificType Test Certific-Special Test Certific	2x (20 16), 2x (18 14) inals 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 ew M3 31920 50 % 31920 50 % 31920 50 % 31920 50 % 31920 50 % 31920 50 FIT according to 10 y to IEC IP20 IEC 60529 finger-safe, for vertical contact from the front Handle KC Cecc Special Test Certific- Marine / Shipping		

Cax online generator

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

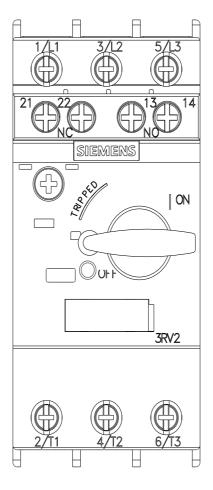
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1CA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1CA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1CA15&objecttype=14&gridview=view1



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