SIEMENS

Data sheet

3RV2411-0JA10



Circuit breaker size S00 for transformer protection A-release 0.7...1 A N-release 21 A screw terminal Standard switching capacity

<u>605</u>			
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 (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		
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	0.7 1 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 value1 A• at AC-S at 40V rated value2 AW• at AC-S at 40V rated value0.3 W• at 400V rated value0.4 W• at 400V rated value10.4 M• at 400V rated value10.4 M• at 400V rated value0.4 W• at 400V rated value0.4 W• at 400V rated value10.4 M• at 400V rated valu		
• # AC 3 at 400 V radie Value1 A• # AC 3 at 500 V radie Value1 A• # AC 302 KW• # AC 30 V radie Value0 2 KW• # AC 300 V radie Value0 4 KW• # AC 30 radie Value100 KA• # AC 30 radi	operational current rated value	1 A
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operating prover • at AC3Set Not Set Set Set Set Set Set Set Set Set Se	 at AC-3 at 400 V rated value 	1 A
• # AC3 • all 400 Vraide value• We- all 400 Vraide value0.3 kW- all 400 Vraide value0.4 kW- all 400 Vraide value0.4 kW- all 400 Vraide value0.2 kW- all 400 Vraide value0.2 kW- all 400 Vraide value0.2 kW- all 400 Vraide value0.3 kW- all 400 Vraide value0.4 kW- all 400 Vraide value0.1 km- all 400 Vraide value100 kA- all 400 Vraide value100 kA <trr>- all 400 Vraide value100 kA<!--</td--><td> at AC-3e at 400 V rated value </td><td>1 A</td></trr>	 at AC-3e at 400 V rated value 	1 A
- ml 230 Vraide value0.2 kW- ml 260 Vraide value0.3 kW- ml 260 Vraide value0.6 kW- ml 260 Vraide value0.2 kW- ml 260 Vraide value0.2 kW- ml 260 Vraide value0.2 kW- ml 260 Vraide value0.4 kW- ml 260 Vraide value0.4 kW- ml 260 Vraide value0.6 kW- momber of NC contacts for auxiliary contacts0- mumber of NC contacts for auxiliary contacts0- spound full distectionNo- spound full distectionNo- spound full distectionNo- spound full distection100 kA- at AC 210 V rade value100 kA- at AC 2100 V rade value100 kA	operating power	
	• at AC-3	
	— at 230 V rated value	0.2 kW
	— at 400 V rated value	0.3 kW
• al AC-3e· al 230 V rated value0.2 kW al 250 V rated value0.3 kW al 550 V rated value0.4 kW al 550 V rated value0.4 kW al 550 V rated value0.4 kW al 560 V rated value0.5 kMoperating frequency	— at 500 V rated value	0.4 kW
	— at 690 V rated value	0.6 kW
- at 800 V rated value0 8 kW- at 800 V rated value0 4 kW- at 800 V rated value0 4 kWoperating frequency15 1/h- at 8.0-3 maximum15 1/h- at 8.0-3 maximum0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0- ground fait detectionNo- ground fait detectionVes- ground fait detection100 kA- sit AG : 240 V ried value100 kA- sit AG : 250 V ried value100 kA- sit AG : 250 V ried value100 kA <tr< td=""><td>• at AC-3e</td><td></td></tr<>	• at AC-3e	
	— at 230 V rated value	0.2 kW
operating frequency• • (A C-3 maximum15 l/h• • (A C-3 maximum)15 l/hAnallacy circuit0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0Product functionVes• origonal fault detectionVes• or		
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Auxiliary circuit 0 number of NC contacts for auxiliary contacts 0 routedive and monitoring functions 0 Product function No • ground fault detection Ves • trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (lcu) 100 kA • it AC at 240 V rated value 100 kA • it AC at 550 V rated value 100 kA • at AC at 550 V rated value 100 kA • at AC at 550 V rated value 100 kA • at AC at 550 V rated value 100 kA • at 600 V rated value 1 A		
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maximum short-circuit current breaking capacity (Icu) it AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 690 V rated value 100 kA • at AC at 690 V rated value 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 1 A • at 400 V rated value 1 A • at 400 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 0.5 hp • brot-circuit protection Yes • at 500 V cated value 0.5 hp • brot-circuit protection Yes • at 600 V gL/gG 10 A • at 600 V gL/gG 10 A • at 600 V <td>trip class</td> <td>CLASS 10</td>	trip class	CLASS 10
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• at 690 V rated value100 kAresponse value current of instantaneous short-circuit trip unit21 AUL/CSA ratings21 Afull-load current (FLA) for 3-phase AC motor1 A• at 480 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.5 hpfull-demechanical performance [hp]0.5 hp• of 3-phase AC motor at 575/600 V rated value0.5 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 10 A• at 690 VgL/gG 10 Ainstallation/ mounting/ dimensionsscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715fastening method45 mmwidth45 mmdepth97 mm	• at 400 V rated value	100 kA
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JUL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A • of 3-phase AC motor - - at 575/600 V rated value 0.5 hp Short-circuit protection Ves design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit gL/gG 10 A • at 600 V gL/gG 10 A <td>• at 690 V rated value</td> <td>100 kA</td>	• at 690 V rated value	100 kA
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design of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 10 A• at 500 VgL/gG 10 A• at 690 VgL/gG 10 Ainstallation/ mounting/ dimensionsanyfastening methodanyheight97 mmwidth45 mmdepth97 mmrequired spacing97 mm		Vac
design of the fuse link for IT network for short-circuit protection of the main circuit gL/gG 10 A • at 500 V gL/gG 10 A • at 690 V gL/gG 10 A Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm		
protection of the main circuit G at 500 V gL/gG 10 A at 690 V gL/gG 10 A Installation/ mounting/ dimensions gL/gG 10 A mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm		magneuc
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mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 97 mm		
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 97 mm		201/
height 97 mm width 45 mm depth 97 mm required spacing 97 mm		
width 45 mm depth 97 mm required spacing 97 mm		
depth 97 mm required spacing 97 mm	-	
required spacing		
	-	97 mm
with side-by-side mounting at the side 0 mm		
	 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 	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 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for main contacts 	2x (18 14), 2x 12
tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
 for main contacts 	M3
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	50 FIT
31920	
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	

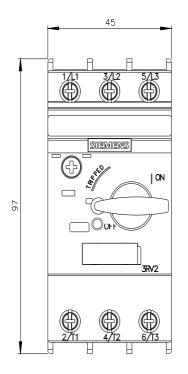
cafety device type as	cording to IEC 61509 2		Tupo	٨		
safety device type according to IEC 61508-2		Туре				
 for proof test interval or service life according to IEC 61508 		10 a				
Electrical Safety						
protection class IP or	n the front according to I	EC 60529	IP20			
touch protection on t	he front according to IEC	60529	finger	-safe, for vertical contact fr	om the front	
Display						
display version for swit	ching status		Handl	e		
Approvals Certificates			_			
General Product App	oroval					
CE EG-Konf.	UK CA)	<u>Confirmation</u>		EHC
Test Certificates		Marine / Shipp	oing			
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		B U R E A U VERITAS		Lloyd's Register us
Marine / Shipping		other				Railway
PRS	RINA	<u>Miscellaneo</u>	<u>us</u>	<u>Confirmation</u>	VDE	<u>Special Test Certific-</u> <u>ate</u>
Railway	Environment					
<u>Confirmation</u>	EPD	Siemens EcoTech		<u>Environmental Con-</u> <u>firmations</u>		
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.sie Cax online generator	mens.com/mall/en/en/Cat					
Service&Support (Ma	nuals, Certificates, Char	acteristics, FAQ	s,)			

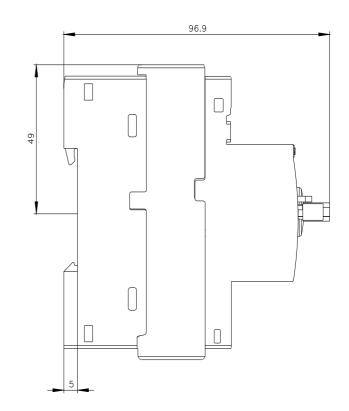
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0JA10

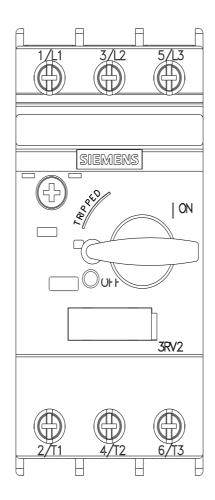
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-0JA10&lang=en

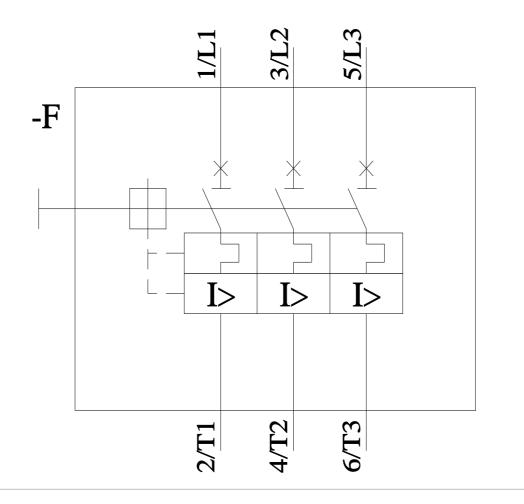
- Characteristic: Tripping characteristics, I²t, Let-through current
- https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0JA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0JA10&objecttype=14&gridview=view1









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