SIEMENS

Data sheet 3RV2421-0HA10



Circuit breaker size S0 For transformer protection A-release 0.55...0.8 A Short-circuit release 16 A Screw terminal Standard switching capacity

SIRIUS product brand name product designation Circuit breaker design of the product For transformer protection product type designation 3RV2 General technical data S0 size of the circuit-breaker 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 5.5 W 1.8 W • at AC in hot operating state per pole 690 V insulation voltage with degree of pollution 3 at AC rated 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) 100 000 • of the main contacts typical · of auxiliary contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 reference code according to IEC 81346-2 C **Substance Prohibitance (Date)** 10/01/2009 **Ambient conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • during storage · during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 0.55 ... 0.8 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum operating frequency rated value 50 ... 60 Hz operational current rated value 0.8 A operational current • at AC-3 at 400 V rated value 0.8 A at AC-3e at 400 V rated value 0.8 A operating power

• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
• at AC-3e	0.4114
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
operating frequency	A.F. A.D.
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
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 (Icu)	400 1.4
at AC at 400 V rated value	100 kA
at AC at 500 V rated value at AC at 500 V rated value	100 kA
 at AC at 500 V rated value at AC at 690 V rated value 	100 kA 100 kA
	IUU M
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value	100 kA
• at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip	16 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.8 A
at 600 V rated value	0.8 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	-1 /-O O A
• at 690 V	gL/gG 6 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	97 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 30 mm - downwards 30 mm - upwards 9 mm - at the side • for grounded parts at 690 V 50 mm - downwards - 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 type of electrical connection • for main current circuit 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 (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) - finely stranded with core end processing 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (16 ... 12), 2x (14 ... 8) tightening torque 2 ... 2.5 N·m • for main contacts with screw-type terminals Diameter 5 to 6 mm design of screwdriver shaft size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw • for main contacts M4 Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 50 % • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 50 % failure rate [FIT] with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to 10 y IEC 61508 IP20 protection class IP on the front according to IEC touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle Certificates/ approvals **Declaration of General Product Approval** Conformity



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other









Confirmation



Railway

Confirmation Vibration and Shock

Further information

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=3RV2421-0HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2421-0HA10

 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RV2421-0HA10

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

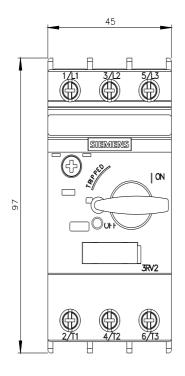
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2421-0HA10&lang=en

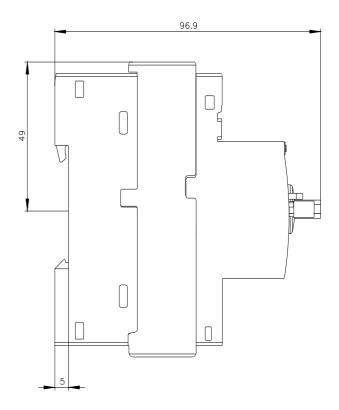
Characteristic: Tripping characteristics, I2t, Let-through current

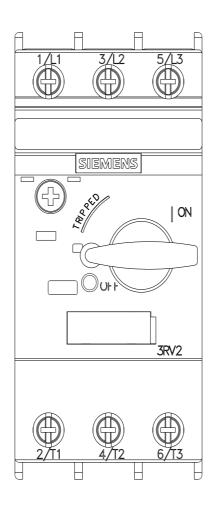
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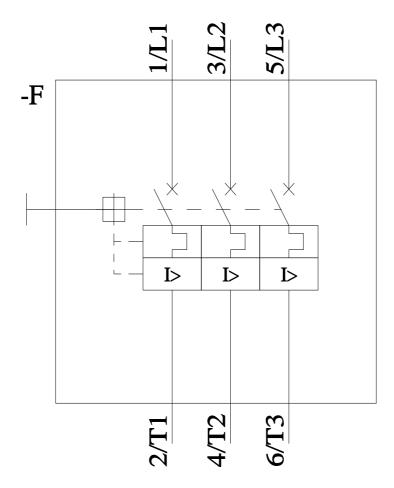
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2421-0HA10&objecttype=14&gridview=view1









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