SIEMENS

Data sheet 3RV2331-4KC10



Circuit breaker size S2 for starter combination Rated current 73 A N-release 949 A screw terminal Standard switching capacity

SIRIUS product brand name product designation Circuit breaker design of the product For starter combinations product type designation 3RV2 General technical data S2 size of the circuit-breaker size of contactor can be combined company-specific S2 product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 29.5 W 9.8 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 Sinus mechanical service life (operating cycles) 20 000 • of the main contacts typical · of auxiliary contacts typical 20 000 electrical endurance (operating cycles) typical 20 000 reference code according to IEC 81346-2 O **Substance Prohibitance (Date)** 03/01/2017 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 3 operating voltage rated value 20 ... 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 ... 60 Hz 73 A operational current rated value operational current 73 A at AC-3 at 400 V rated value operating power • at AC-3 - at 230 V rated value 22 kW 37 kW - at 400 V rated value

— at 500 V rated value

45 kW

at 000 V ==t= d ==t==	EE IAM
— at 690 V rated value	55 kW
operating frequency • at AC-3 maximum	15 1/h
	13 1/11
Auxiliary circuit	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection maximum chart circuit augment breaking canceity (lau)	No
maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	100 kA
at AC at 240 V rated value at AC at 400 V rated value	65 kA
at AC at 500 V rated value	8 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
 at 400 V rated value 	30 kA
 at 500 V rated value 	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	949 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	65 A
at 600 V rated value	62 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	00.1
— at 200/208 V rated value	20 hp
 — at 220/230 V rated value — at 460/480 V rated value 	25 hp
— at 575/600 V rated value	50 hp 60 hp
Short-circuit protection	60 Hp
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	agriosio
• at 240 V	none required
● at 400 V	160
● at 500 V	125
● at 690 V	100
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
height	60715 140 mm
height width	55 mm
depth	149 mm
required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 400 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 500 V downwards 	50 mm
— downwards — upwards	50 mm
— at the side	10 mm
	TV IIIIII

• for live parts at 500 V - downwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 690 V 50 mm - downwards - upwards 50 mm - backwards 0 mm - at the side 10 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm 50 mm - upwards - backwards 0 mm - at the side 10 mm - forwards 0 mm

Connections/ Terminals

type of electrical connection

• for main current circuit

arrangement of electrical connectors for main current circuit

type of connectable conductor cross-sections

· for main contacts

- solid or stranded

- finely stranded with core end processing

• at AWG cables for main contacts

tightening torque

• for main contacts with screw-type terminals

design of screwdriver shaft size of the screwdriver tip

design of the thread of the connection screw

• for main contacts

screw-type terminals

Top and bottom

2x (1 ... 35 mm²), 1x (1 ... 50 mm²) 2x (1 ... 25 mm²), 1x (1 ... 35 mm²)

2x (18 ... 2), 1x (18 ... 1)

3 ... 4.5 N·m

Diameter 5 to 6 mm Pozidriv size 2

M6

Safety related data

B10 value

• with high demand rate according to SN 31920 5 000

proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT]

• with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

50 %

50 %

50 FIT

10 a

IP20

finger-safe, for vertical contact from the front Handle

Certificates/ approvals

General Product Approval





Confirmation



KC



Declaration of Conformity

Test Certificates

Marine / Shipping





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

Type Test Certificates/Test Report





Marine / Shipping other











Confirmation

other

Railway



Vibration and Shock

Confirmation

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=3RV2331-4KC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4KC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4KC10

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

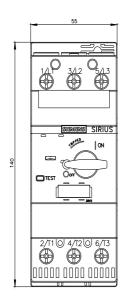
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4KC10&lang=en

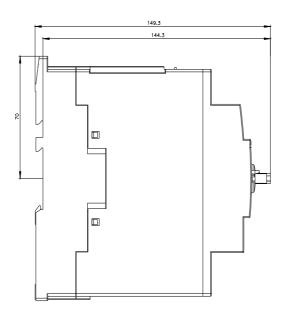
Characteristic: Tripping characteristics, I2t, Let-through current

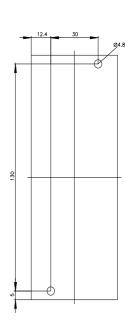
https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4KC10/char

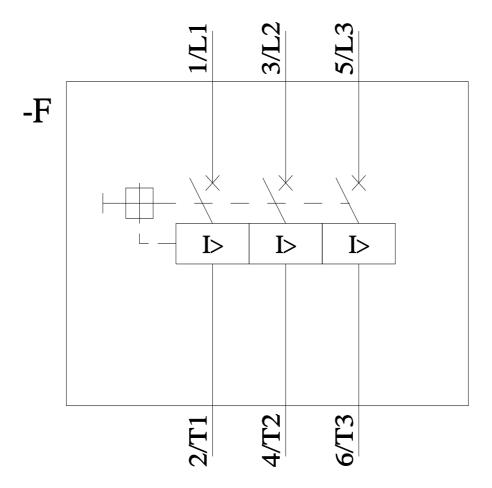
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4KC10&objecttype=14&gridview=view1









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