SIEMENS

Data sheet 3RV2331-4XC10



Circuit breaker size S2 for starter combination Rated current 59 A N-release 845 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 26 W 8.7 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 • at AC-3e rated value maximum 690 V 50 ... 60 Hz operating frequency rated value operational current rated value 59 A operational current • at AC-3 at 400 V rated value 59 A • at AC-3e at 400 V rated value 59 A operating power • at AC-3 15 kW — at 230 V rated value

 at 400 V rated value 	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 kW
operating frequency	
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
	ů
Protective and monitoring functions	
product function	
 ground fault detection 	No
 phase failure detection 	No
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	65 kA
at AC at 500 V rated value at AC at 500 V rated value	8 kA
at AC at 500 V rated value at AC at 690 V rated value	
	4 kA
operating short-circuit current breaking capacity (lcs) at AC	
	400 1-4
at 240 V rated value	100 kA
 at 400 V rated value 	30 kA
 at 500 V rated value 	4 kA
 at 690 V rated value 	2 kA
response value current of instantaneous short-circuit trip	845 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
1411 1544 5411511 (1 = 1) 151 5 pilaso 115 1115151	
 at 480 V rated value 	59 Δ
at 480 V rated value at 600 V rated value	59 A
• at 600 V rated value	59 A 59 A
at 600 V rated valueyielded mechanical performance [hp]	
 at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor 	59 A
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— 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
— upwards	50 mm
— at the side	10 mm
● for live parts at 500 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
● for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
nections/ 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

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

failure rate [FIT]

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

protection class IP on the front according to IEC

display version for switching status

Diameter 5 to 6 mm

Pozidriv size 2

M6

50 %

50 %

50 FIT

10 a

• with high demand rate according to SN 31920

• with low demand rate according to SN 31920

touch protection on the front according to IEC 60529

IP20

finger-safe, for vertical contact from the front Handle

Certificates/ approvals

General Product Approval



Confirmation





KC



Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

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=3RV2331-4XC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4XC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4XC10

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

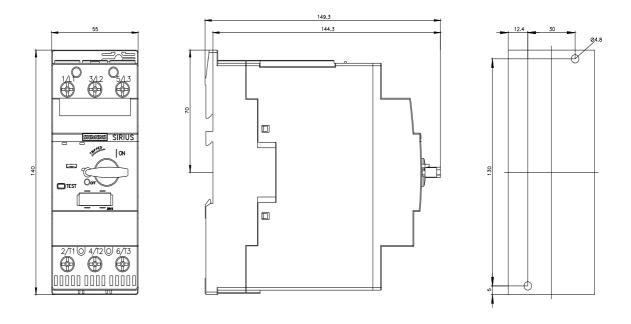
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4XC10&lang=en

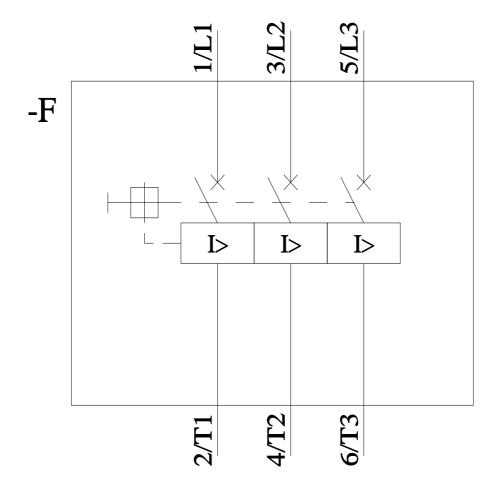
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4XC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4XC10&objecttype=14&gridview=view1





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