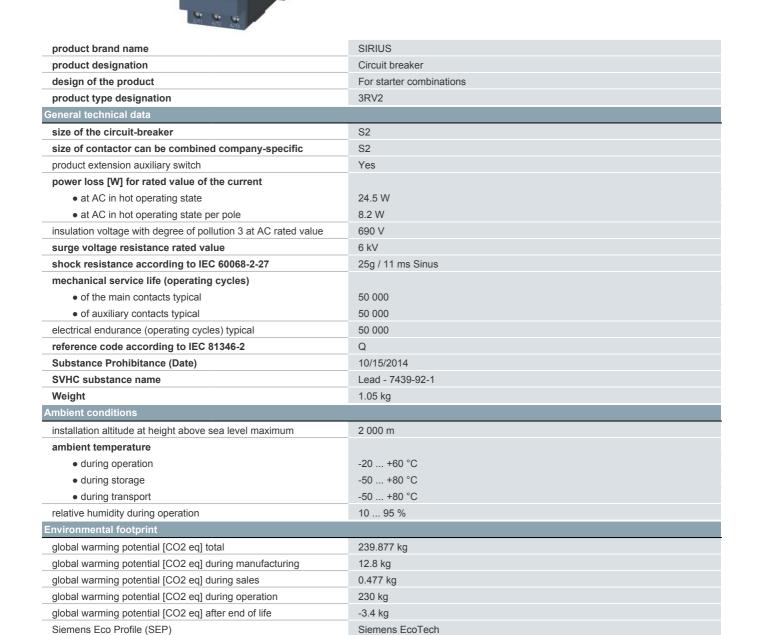
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Data sheet 3RV2331-4VC10



Circuit breaker size S2 for starter combination Rated current 45 A N-release 650 A screw terminal Standard switching capacity





Main circuit

number of poles for main current circuit	3
type of voltage for main current circuit	AC/DC
operating voltage	ACIDO
• 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	45 A
operational current	
• at AC-3 at 400 V rated value	45 A
at AC-3e at 400 V rated value	45 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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	
Protective and monitoring functions product function	
	No
product function	No No
product function	
product function	No
product function	No
product function	No CLASS 10
product function	No CLASS 10 100 kA
product function	No CLASS 10 100 kA 65 kA 10 kA
product function	No CLASS 10 100 kA 65 kA
product function	No CLASS 10 100 kA 65 kA 10 kA
product function	No CLASS 10 100 kA 65 kA 10 kA
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA 650 A
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA 650 A
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product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA 650 A 45 A 45 A 45 A
product function	No CLASS 10 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA 650 A 45 A 45 A 45 A

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	
• at 240 V	none required
• at 400 V	125
● at 500 V	100
● at 690 V	80
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm
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
— 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
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 (1 25 mm²), 1x (1 35 mm²)
 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
for AWG cables for main contacts	2x (18 3), 1x (18 2)
tightening torque	
for main contacts with screw-type terminals	3 4.5 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	
• for main contacts	M6

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 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
 for proof test interval or service life according to IEC 61508 	10 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Handle
Approvals Certificates	
One and Decident Assessed	











<u>KC</u>



General Product Ap-**Test Certificates** Marine / Shipping proval

BIS CRS

Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping other







Miscellaneous

Confirmation



Railway Environment

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

Confirmation



EcoTech



Environmental Con-

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=3RV2331-4VC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4VC10

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

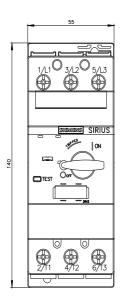
https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4VC10

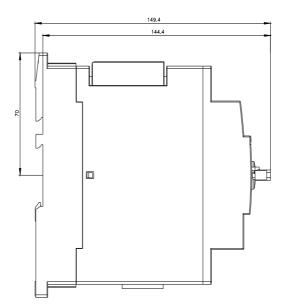
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4VC10&lang=en

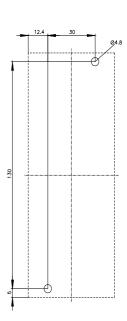
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4VC10/char

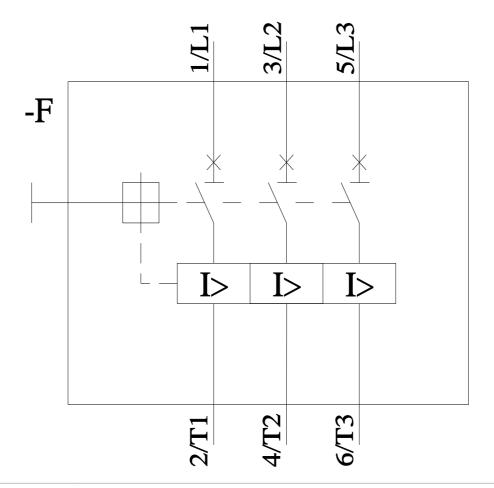
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4VC10&objecttype=14&gridview=view1









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