## SIEMENS

## Data sheet

## 3RV2331-4WC10



Circuit breaker size S2 for starter combination Rated current 52 A N-release 741 A screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	24.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	8.2 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 Sinus
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	50 000
of auxiliary contacts typical	50 000
electrical endurance (operating cycles) typical	50 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Blei - 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
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	52 A
operational current	
• at AC-3 at 400 V rated value	52 A
• at AC-3e at 400 V rated value	52 A
operating power	

• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
	40 KW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	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
	8 kA
at AC at 500 V rated value	
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	30 kA
• at 500 V rated value	4 kA
<ul> <li>at 690 V rated value</li> </ul>	2 kA
response value current of instantaneous short-circuit trip unit	741 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
	F0 A
• at 480 V rated value	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	40 hp
- at 575/600 V rated value	50 hp
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	
• 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 60715
height	140 mm
norght	
width	55 mm
width	55 mm
depth	55 mm 149 mm

		Declaration of Co
pprovals Certificates		
display version for switching status	Handle	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
protection class IP on the front according to IEC 60529	IP20	
T1 value for proof test interval or service life according to IEC 61508	10 a	
with low demand rate according to SN 31920	50 FIT	
failure rate [FIT]		
with high demand rate according to SN 31920	50 %	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %	
proportion of dangerous failures		
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000	
B10 value		
afety related data		
for main contacts	M6	
design of the thread of the connection screw		
size of the screwdriver tip	Pozidriv size 2	
design of screwdriver shaft	Diameter 5 to 6 mm	
for main contacts with screw-type terminals	3 4.5 N·m	
tightening torque		
for AWG cables for main contacts	2x (18 2), 1x (18 1)	
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)	
for main contacts		
type of connectable conductor cross-sections		
arrangement of electrical connectors for main current circuit	Top and bottom	
• for main current circuit	screw-type terminals	
type of electrical connection		
onnections/ Terminals		
— forwards	0 mm	
— at the side	10 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
• for live parts at 690 V		
— forwards	0 mm	
— at the side	10 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
• for grounded parts at 690 V		
— at the side	10 mm	
— upwards	50 mm	
— downwards	50 mm	
• for live parts at 500 V		
— at the side	10 mm	
— upwards	50 mm	
— downwards	50 mm	
<ul> <li>for grounded parts at 500 V</li> </ul>		
— at the side	10 mm	
— upwards	50 mm	
— downwards	50 mm	
<ul> <li>for live parts at 400 V</li> </ul>		
— at the side	10 mm	
— upwards	50 mm	

	<u>Confirmation</u>	<b>U</b>	<u>KC</u>	EHC	UK CA
Declaration of Con- formity	Test Certificates		Marine / Shipping		
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	B U REAU VERITAS	
Marine / Shipping			other		
Lloyds Register us	PRS	RINA	Household and similar appliances	<u>Confirmation</u>	
Railway		Environment			
Vibration and Shock	<u>Confirmation</u>	Environmental Con- firmations			

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2331-4WC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4WC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4WC10

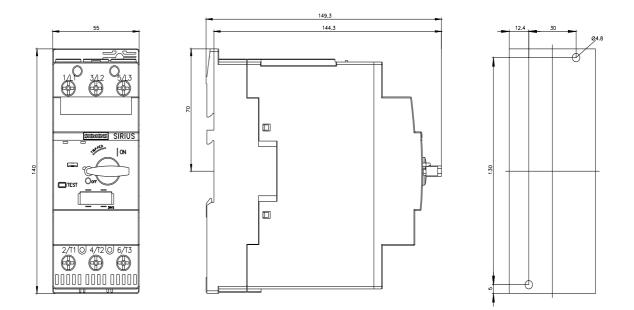
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2331-4WC10&lang=en

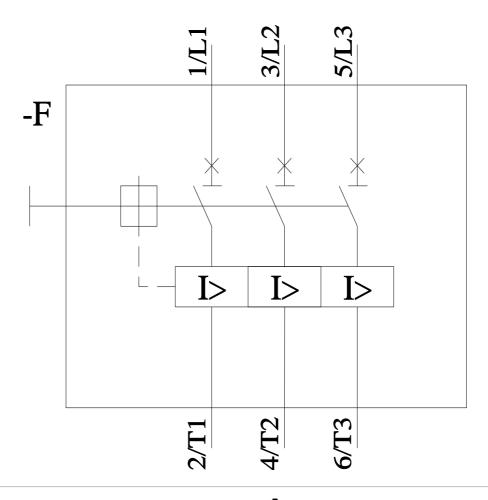
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4WC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4WC10&objecttype=14&gridview=view1





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