## **SIEMENS**

Data sheet 3RV2331-4PC10



Circuit breaker size S2 for starter combination Rated current 36 A N-release 520 A screw terminal Standard switching capacity

SIRIUS
Circuit breaker
For starter combinations
3RV2
S2
S2
Yes
20 W
6.7 W
690 V
6 kV
400 V
400 V
25g / 11 ms Sinus
50 000
50 000
50 000
Q
15.10.2014 00:00:00
2 000 m
-20 +60 °C
-50 +80 °C
-50 +80 °C
10 95 %
3
690 V
690 V
690 V 50 60 Hz

operational current at AC-3 at 400 V rated value	36 A
operating power at AC-3	
<ul> <li>at 400 V rated value</li> </ul>	18 500 W
<ul> <li>at 500 V rated value</li> </ul>	22 000 W
<ul><li>at 690 V rated value</li></ul>	30 000 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
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
	No
phase failure detection    breaking and airty are retired about aircuit augment (lea)	INO
breaking capacity operating short-circuit current (lcs) at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value     at 500 V rated value	5 kA
at 690 V rated value     at 690 V rated value	2 kA
	2 NA
breaking capacity maximum short-circuit current (Icu)	100 kA
at AC at 400 V rated value	100 kA
at AC at 400 V rated value	65 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	520 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	00.4
• at 480 V rated value	36 A
at 600 V rated value	36 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
<ul> <li>at 200/208 V rated value</li> </ul>	15 hp
<ul> <li>at 220/230 V rated value</li> </ul>	15 hp
<ul> <li>at 460/480 V rated value</li> </ul>	30 hp
<ul> <li>at 575/600 V rated value</li> </ul>	40 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	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 standard mounting rail
	according to DIN EN 60715
height	140 mm
width	55 mm
depth	149 mm
required spacing	
• for grounded parts at 400 V	
	50 mm
— downwards	50 11111
<ul><li>— downwards</li><li>— upwards</li></ul>	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	F0	
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 500 V	F0	
— downwards	50 mm	
— upwards	50 mm 10 mm	
<ul><li>— at the side</li><li>• for grounded parts at 690 V</li></ul>	10 111111	
	E0 mm	
— downwards	50 mm 50 mm	
— upwards		
— backwards	0 mm	
<ul><li>— at the side</li><li>— forwards</li></ul>	10 mm	
	0 mm	
for live parts at 690 V     — downwards	50 mm	
	50 mm 50 mm	
— upwards — backwards	0 mm	
— at the side	10 mm	
— at the side — forwards		
	0 mm	
Connections/ Terminals	N-	
product function removable terminal for auxiliary and control circuit	No .	
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		
<ul><li>— solid or stranded</li></ul>	2x (1 25 mm²), 1x (1 35 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 16 mm²), 1x (1 25 mm²)	
at 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 2	
design of the thread of the connection screw		
for main contacts	M6	
Safety related data		
B10 value		
with high demand rate acc. to SN 31920	5 000	
proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %	
with high demand rate acc. to SN 31920	50 %	
failure rate [FIT]		
with low demand rate acc. to SN 31920	50 FIT	
T1 value for proof test interval or service life acc. to IEC 61508	10 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
General Product Approval		Declaration of
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		







KC





Declaration of Conformity

**Test Certificates** 

Marine / Shipping

Miscellaneous

Special Test Certificate Type Test Certificates/Test Report







Marine / Shipping







Confirmation

other



Railway

Vibration and Shock Confirmation

## Further information

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$ 

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2331-4PC10

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2331-4PC10}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4PC10

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

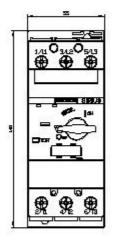
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2331-4PC10&lang=en

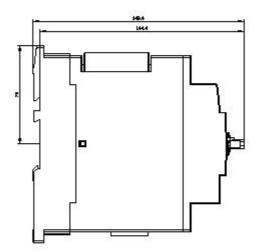
Characteristic: Tripping characteristics, I²t, Let-through current

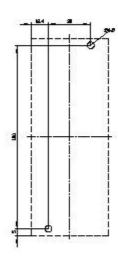
https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4PC10/char

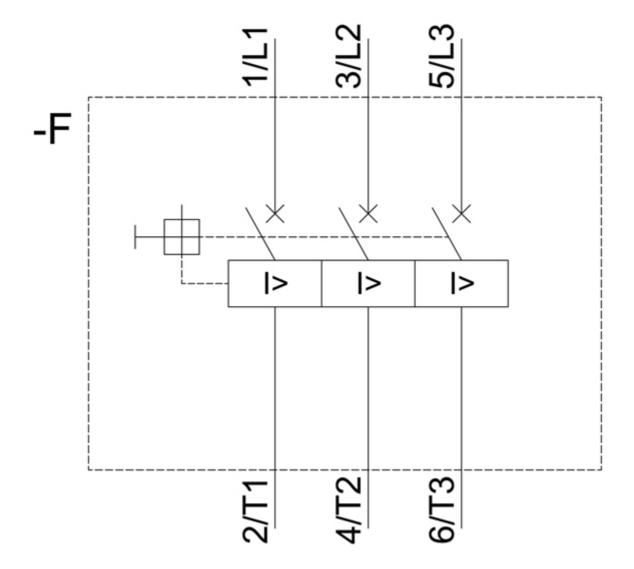
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4PC10&objecttype=14&gridview=view1









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