## 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

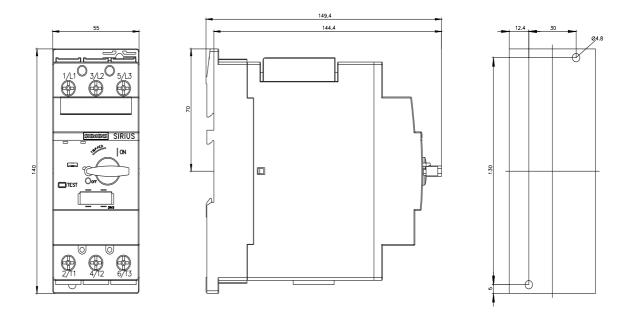


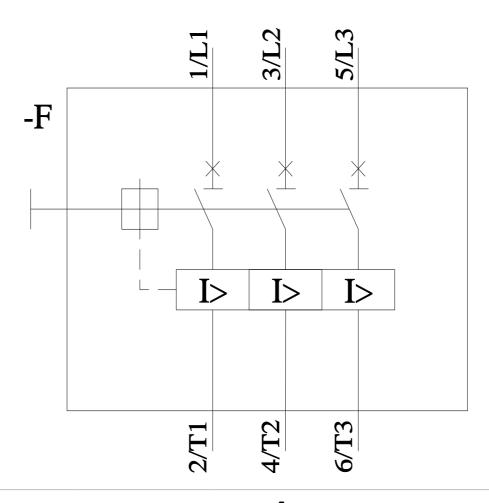
product brand name	SIRIUS			
product designation	Circuit breaker			
design of the product	For starter combinations			
product type designation	3RV2			
General technical data				
size of the circuit-breaker	\$2			
size of contactor can be combined company-specific	\$2 \$2			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
at AC in hot operating state	20 W			
at AC in hot operating state per pole	6.7 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)				
of the main contacts typical	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	Lead - 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 %			
lain 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	36 A			

	20.4
• at AC-3 at 400 V rated value	36 A
• at AC-3e at 400 V rated value	36 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 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
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	No
trip class	CLASS 10
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	65 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	10 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	520 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	36 A
at 600 V rated value	36 A
yielded mechanical performance [hp]	
for single-phase AC motor	
	2 hz
- at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
for 3-phase AC motor     at 200/208 V rated value	15 hn
- at 200/208 V rated value	15 hp
- at 220/230 V rated value	15 hp
- at 460/480 V rated value	30 hp
— at 575/600 V rated value	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	
•	pope required
• 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			
<ul> <li>for grounded parts at 400 V</li> </ul>	· mm			
— 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			
<ul> <li>for grounded parts at 500 V</li> </ul>				
— 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			
<ul> <li>for grounded parts at 690 V</li> </ul>				
— 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)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 16 mm²), 1x (1 25 mm²)			
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 3), 1x (18 2)			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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	M6			
Safety related data	Vec			
product function suitable for safety function	Yes			
suitability for use	No			
<ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul>	No Yes			
• salety-related switching OFF	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	40 % 50 %			
B10 value with high demand rate according to SN 31920	50 %			
failure rate [FIT] with low demand rate according to SN 31920	5000 50 FIT			
31920				

ISO 13849			•				
	device type according to ISO 13849-1 3						
-	overdimensioning according to ISO 13849-2 necessary			Yes			
IEC 61508							
safety device type acc	cording to IEC 61508-2		Туре	A			
<ul> <li>for proof test inter</li> </ul>	<ul><li>• for proof test interval or service life according to IEC</li></ul>		10 a	10 a			
61508							
Electrical Safety	the frent coording to If	C (0520	1000				
-	the front according to IE			IP20 finger-safe, for vertical contact from the front			
· ·	e front according to IEC	60529	tinger	-safe, for vertical contact	from the front		
Display							
display version for swite	ching status		Handl	e			
Approvals Certificates		_				_	
General Product Appr	roval						
CE EG-Konf.	UK CA	Confirmation	n		(UL) III	KC	
General Product Approval	Test Certificates			Marine / Shipping			
EHC	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Cert</u> ates/Test Rep		ABS	B UREAU VERITAS		
Marine / Shipping				other			
Lloyd's Kegister uts	PRS	RINA		<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment					
Special Test Certific- ate	Confirmation	EPD		Siemens EcoTech	Environmental Con- firmations		
F. (I							
Further information	ckaging						
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=3RV2331-4PC10							
Cax online generator							
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⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4PC10/char							
	<u>siemens.com/cs/ww/en/ps</u> s (e.g. electrical enduran			0			
http://www.automation.s	s (e.g. electrical enduran siemens.com/bilddb/index.	aspx?view=Searc	h&mlfb=	; =3RV2331-4PC10&object	type=14&gridview=view1		





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