SIEMENS

Data sheet

3RV2331-4BC10



Circuit breaker size S2 for starter combination Rated current 20 A N-release 260 A screw terminal Standard switching capacity



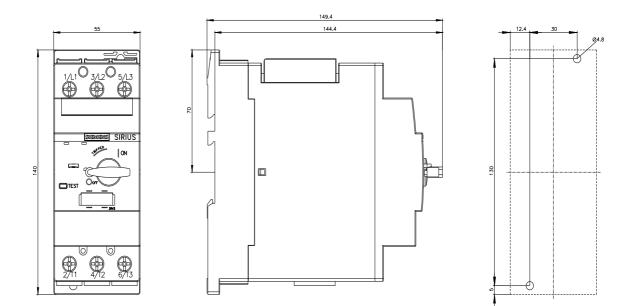
product brand name	SIRIUS			
product designation	Circuit breaker			
design of the product	For starter combinations			
product type designation	3RV2			
General technical data				
size of the circuit-breaker	S2			
size of contactor can be combined company-specific	S2			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
 at AC in hot operating state 	14.5 W			
 at AC in hot operating state per pole 	4.8 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			
Weight	1.061 kg			
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 %			
Environmental footprint				
global warming potential [CO2 eq] total	239.877 kg			
global warming potential [CO2 eq] during manufacturing	12.8 kg			
global warming potential [CO2 eq] during sales	0.477 kg			
global warming potential [CO2 eq] during operation	230 kg			
global warming potential [CO2 eq] after end of life	-3.4 kg			
Siemens Eco Profile (SEP)	Siemens EcoTech			
Main circuit				

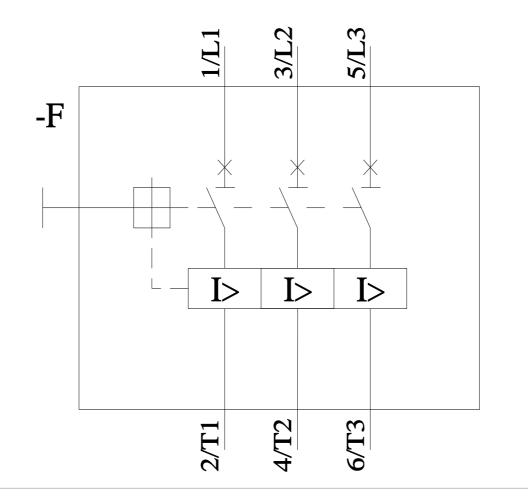
number of poles for main current circuit	3
operating voltage	
rated value	20 690 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	20 A
operational current	
• at AC-3 at 400 V rated value	20 A
at AC-3e at 400 V rated value	20 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 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	
 ground fault detection 	No
phase failure detection	No
trip class	CLASS 10
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 	12 kA
 at AC at 690 V rated value 	5 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	6 kA
at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	20 A
• at 480 V rated value	20 A
at 480 V rated valueat 600 V rated value	20 A 20 A
at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] o for single-phase AC motor	20 A
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 	20 A 1.5 hp
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	20 A
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] o for single-phase AC motor — at 110/120 V rated value — at 230 V rated value o for 3-phase AC motor	20 A 1.5 hp 3 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	20 A 1.5 hp 3 hp 7.5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	20 A 1.5 hp 3 hp 7.5 hp 7.5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	20 A 1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	20 A 1.5 hp 3 hp 7.5 hp 7.5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	20 A 1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection 	20 A 1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp 20 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection 	20 A 1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp 20 hp Yes

• at 240 V	none required			
● at 240 V ● at 400 V	none required			
	100			
• at 500 V	80 63			
 at 690 V Installation/ mounting/ dimensions 	63			
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	0 mm			
• with side-by-side mounting at the side	0 mm			
for grounded parts at 400 V	50 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			
for grounded parts at 500 V	F0 mm			
- 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 mm ²), 1x (1 25 mm ²)			
 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	M6			
Safety related data				
product function suitable for safety function	Yes			
suitability for use				
safety-related switching on	No			
safety-related switching OFF	Yes			
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failure rate [FT] with low demand rate according to SN 50 FT 40000000000000000000000000000000000							
device type according to ISO 13849-1 overdimentioning according to ISO 13849-2 necessary Yes Safety device type according to ISO 13849-2 mecessary Yes Safety device type according to ISO 61508-2 Type A Type	failure rate [FIT] with low demand rate according to SN						
overdimensioning according to 150 138492 necessary Yes IEC 81306 Type A IF value Type A If value To a If or pool test interval or service life according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incuch protection on the front according to IEC 80529 IP20 Incurrent Product Approval IP20 Incurrent Status IP20 Incurrent Sta	ISO 13849						
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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4BC10/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4BC10&objecttype=14&gridview=view1





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