SIEMENS

Data sheet

3RV2331-4TC10



Circuit breaker size S2 for starter combination Rated current 17 A Nrelease 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 (switching cycles)				
 of the main contacts typical 	50 000			
 of auxiliary contacts typical 	50 000			
electrical endurance (switching cycles) typical	50 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/15/2014			
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			
 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	17 A			
operational current				
 at AC-3 at 400 V rated value 	17 A			
 at AC-3e at 400 V rated value 	17 A			

operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 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
breaking capacity maximum short-circuit current (lcu)	
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
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 	6 kA
• at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip	260 A
unit UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	17 A
 at 480 V rated value at 600 V rated value 	17 A 17 A
vielded mechanical performance [hp]	17 A
• for single-phase AC motor	
- at 110/120 V rated value	1.5 hp
 — at 230 V rated value for 3-phase AC motor 	3 hp
tor 3-phase AC motor — at 200/208 V rated value	5 hn
— at 220/200 V rated value	5 hp 7.5 hp
— at 220/230 V rated value	
— at 460/480 V rated value — at 575/600 V rated value	15 hp 15 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	maynolo
protection of the main circuit	
• at 240 V	none required
• at 400 V	100
• at 500 V	80
• at 690 V	63
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	143 1111		
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 			
— 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)		
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 size 2		
design of the thread of the connection screw			
for main contacts	M6		
Safety related data			
B10 value	5 000		
with high demand rate according to SN 31920	5 000		
proportion of dangerous failures	50.0/		
with low demand rate according to SN 31920	50 %		
with high demand rate according to SN 31920	50 %		
failure rate [FIT]			
with low demand rate according to SN 31920	50 FIT		
T1 value for proof test interval or service life according to IEC 61508	10 у		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front		

display version for sw	-	Handle				
Certificates/ approval General Product Ap						
		<u>Confirmation</u>		<u>KC</u>	EAC	
Declaration of Conf	ormity	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 UREAU VERITAS	
Marine / Shipping					other	
	Lloyds Register uxs	PRS	RINA	RMRS	<u>Confirmation</u>	
other	Railway					
UDE VDE	<u>Confirmation</u>	<u>Vibration and Shock</u>				
Further information 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=3RV2331-4TC10 Cax online generator						

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4TC10

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

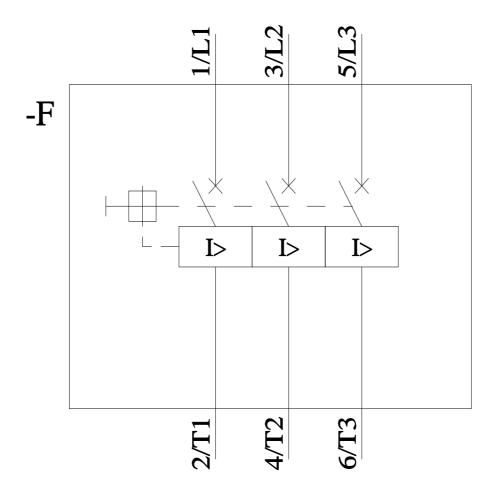
https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4TC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4TC10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4TC10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4TC10&objecttype=14&gridview=view1



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