SIEMENS

Data sheet

3RV2331-4TC10

CIRCUIT BREAKER, SIZE S2, FOR STARTER COMBINATION, RATED CURRENT 17A, N-RELEASE 260A, SCREW TERMINAL, STANDARD BREAKING CAPACITY



product brandname	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] total typical	12 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
Protection class IP	

• on the front	IP20
• of the terminal	IP00
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
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Equipment marking acc. to DIN EN 81346-2	Q
Ambient conditions	
Ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	-50 +80 °C
Main circuit	
Number of poles for main current circuit	3
Operating voltage	
 rated value 	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	17 A
Operating current	
• at AC-3	
— at 400 V rated value	17 A
Operating power	
• at AC-3	
— at 230 V rated value	4 000 W
— at 400 V rated value	7 500 W
— at 500 V rated value	7 500 W
— at 690 V rated value	15 000 W
Operating frequency	
• at AC-3 maximum	15 1/h
Protective and monitoring functions	
Product function	
 Ground fault detection 	No
 Phase failure detection 	No
Operational short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 A
• at 400 V rated value	30 kA
at 500 V rated value	6 kA

• at 690 V rated value	3 kA
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
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	17 A
• at 600 V rated value	17 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
 for three-phase AC motor 	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	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	
protection of the main circuit	
● at 240 V	none required
● at 400 V	100
• at 500 V	80
● at 690 V	63

any
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
140 mm
55 mm
149 mm
0 mm
0 mm
50 mm
50 mm

0 mm
0 mm
0 mm
50 mm
10 mm
50 mm
0 mm
0 mm
50 mm
50 mm
10 mm

Connections/Terminals	
Product function	
 removable terminal for auxiliary and control 	No
circuit	
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 	
— single or multi-stranded	2x (1 25 mm²), 1x (1 35 mm²)
 — finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
 at AWG conductors 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
Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	5 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	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 у
Display version	
 for switching status 	Handle



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

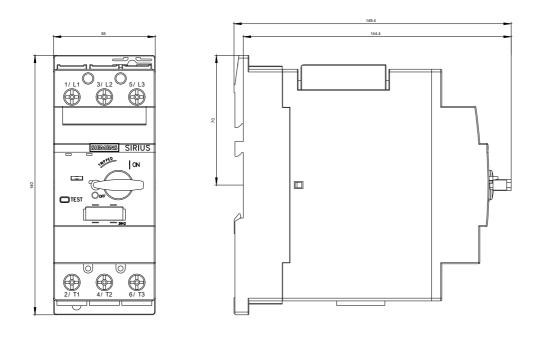
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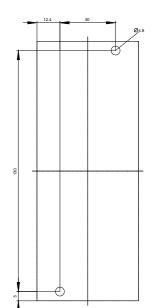
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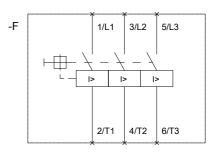
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4TC10

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









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