SIEMENS

Data sheet 3RV2031-4BB10



Circuit breaker size S2 for motor protection, Class 20 A-release 14...20 A N-release 260 A screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
between main and auxiliary circuit	400 V
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
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	14 20 A
operating voltage	
rated value	690 V
rated value	20 690 V

	000.17
at AC-3 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
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
operating frequency	
 at AC-3 maximum 	15 1/h
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 20
design of the overload release	thermal
breaking capacity operating short-circuit current (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
breaking capacity maximum short-circuit current (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
response value current of instantaneous short-circuit trip	260 A
unit	200 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	20 A
at 400 V rated value at 600 V rated value	20 A
yielded mechanical performance [hp]	20 A
for single-phase AC motor	
	1 E hn
— at 110/120 V rated value — at 230 V rated value	1.5 hp
	3 hp
• for 3-phase AC motor	7.5 ha
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 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
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	donth	149 mm
• for grounded parts at 4-00 V	-	143 11111
- downwards		
- upwards		F0
at the side • for live parts at 400 V downwards upwards at the side • for grounded parts at 500 V downwards upwards at the side for grounded parts at 500 V downwards at the side for live parts at 500 V downwards upwards for live parts at 500 V downwards upwards upwards upwards upwards the side to mm at the side to mm to mm at the side to mm		
• for live parts at 400 V		
- downwards		10 mm
- upwards		
at the side	— downwards	50 mm
• for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 600 V — downwards — at the side • for grounded parts at 600 V — downwards — upwards — at the side — 10 mm • for live parts at 600 V — downwards — upwards — upwards — of word wards — upwards — of word wards — upwards — upwards — at the side — 10 mm • for live parts at 600 V — downwards — upwards — upwards — at the side — to mm — at the side — to mm — or man component removable terminal for auxillary and control circuit type of electrical connection • for man current circuit screw-type terminals Top and bottom **Top and bottom	— upwards	50 mm
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Confirmation





Declaration of Conformity

Test Certificates

Marine / Shipping

<u>KC</u>



UK Declaration of Conformity Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping













Confirmation

other

other

Railway



Vibration and Shock

Confirmation

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=3RV2031-4BB10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4BB10

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4BB10}$

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

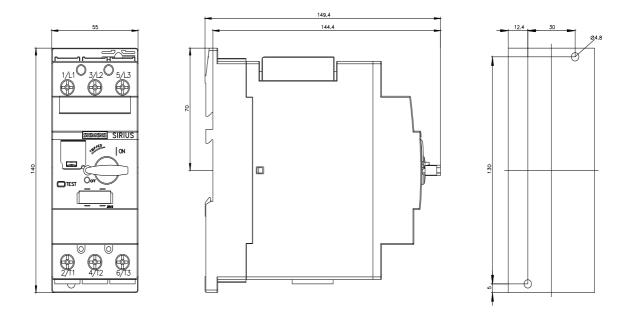
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4BB10&lang=en

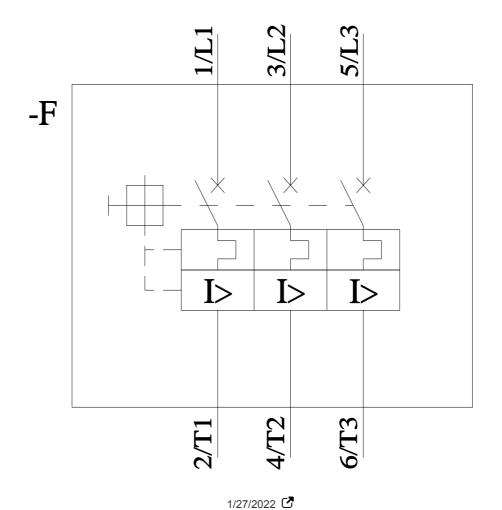
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4BB10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4BB10&objecttype=14&gridview=view1





3RV20314BB10 Page 5/6

last modified: