SIEMENS

Data sheet 3RV2031-4DB10



Circuit breaker size S2 for motor protection, Class 20 A-release 18...25 A N-release 325 A Screw terminal Standard switching capacity

product brand name product designation design of the product product type designation General technical data SIRIUS Circuit breaker For motor protection 3RV2

General teenineal 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
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
adjustable current response value current of the current-dependent overload release	18 25 A
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	25 A
operational current	
 at AC-3 at 400 V rated value 	25 A
 at AC-3e at 400 V rated value 	25 A
operating power	

earl AC-3		
	• at AC-3	
at 500 V rated value at 620 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 650 V rated value at	— at 230 V rated value	5.5 kW
— at 180 V rated value	— at 400 V rated value	11 kW
— af 690 V rated value	— at 500 V rated value	15 kW
e at AC-3e		
		LL IVVV
at 400 V rated value		E E LAM
al 500 V raled value al 6500 V raled value operating frequency al AC-3 maximum		
— at 869 V rated value operating frequency • at AC-3 maximum 15 1h 1h 15 1h 15 1h 15 1h 15 1h 1h 15	— at 400 V rated value	
operating frequency at AC-3 maximum at AC-3 maximum bit 5 1/h cat AC-3 maximum cat AC at Section cat AC at Lead to Company cat Lead to Compa	— at 500 V rated value	15 kW
at AC-3 maximum at AC-3 maximum brotectiva and monitoring functions product function a ground fault detection a ground fault detection by as failure detection a ground fault detection by a ground fault detection a ground fault detection by as failure detection by as failure detection c phase failure detection at AC at 240 V rated value at AC at 240 V rated value at AC at 240 V rated value at AC at 500 V rated value at AC at 890 V rated value at 400 V rated value at 600 V rated value by at 600 V rated value by included mechanical performance (hp) for single-phase AC motor at 400 V rated value at 600 V rated va	— at 690 V rated value	22 kW
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product function	at AC-3e maximum	15 1/h
product function	Protective and monitoring functions	
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full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • 25 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 4575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 400 V • at 500 V • at 690 V • at 690 V • at 690 V installation/ mounting/ dimensions mounting position fastening method fastening method fastening method fastening method fastening method for 15 mm 149 mm		325 A
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	UL/CSA ratings	
• 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 9 for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 20 hp — at 2575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V installation/ mounting/ dimensions mounting position fastening method height vidth depth 25 A 25 A 25 A 26 A 27 A 28 A 29 A 20 A 2	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit value 100 • at 240 V 100 • at 240 V 100 • at 500 V 80 • at 690 V 80 Installation/ mounting/ dimensions mounting position fastening method height 149 mm	 at 480 V rated value 	25 A
yielded mechanical performance [hp] • for single-phase AC motor	at 600 V rated value	25 A
for single-phase AC motor — at 110/120 V rated value		
- at 110/120 V rated value 2 hp - at 230 V rated value 5 hp • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 10 hp - at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V 100 • at 400 V 80 • at 690 V 80 • at 690 V 63 Installation/ mounting/ dimensions mounting position any fastening method 55 mm depth 149 mm		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/330 V rated value - at 460/480 V rated value - at 575/600 V rated value - by the short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method fastening method any fastening method for 15 height vidth depth 140 mm 149 mm		2 hn
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- at 200/208 V rated value 7.5 hp - at 220/230 V rated value 10 hp - at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic 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 • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method fastening method any fastening method for 15 mm to 149 mm		5 пр
- at 220/230 V rated value	•	
- at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V		
- at 575/600 V rated value 25 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic eat 240 V none required • at 400 V 100 • at 500 V 80 • at 690 V 63 Installation/ mounting/ dimensions mounting position fastening method fastening method height width depth 25 hp 25 hp Yes magnetic Yes magnetic Yes magnetic 100 63 100 100 100 100 100 100	— at 220/230 V rated value	10 hp
Short-circuit protection product function short circuit protection 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 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	 — at 460/480 V rated value 	20 hp
product function short circuit protection 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 • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth Yes magnetic Yes magnetic Yes magnetic ** **Magnetic** ** ** ** ** ** ** ** ** ** ** ** **	 at 575/600 V rated value 	25 hp
product function short circuit protection 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 • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth Yes magnetic Yes magnetic **Magnetic** **Magnetic** **None required **100 **80 **80 **63 **Book of 3 **Installation/ mounting/ dimensions any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Height of the main circuit	Short-circuit protection	
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth magnetic none required 63 80 63 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm 149 mm		Ves
design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height signs and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 55 mm depth 149 mm		
protection of the main circuit at 240 V at 400 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width width fepth 140 mm width 149 mm		magnetic
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● at 690 V Installation/ mounting/ dimensions mounting position fastening method any formula screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width the street and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 149 mm		100
Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 55 mm depth 149 mm		
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 55 mm depth 149 mm	● at 690 V	
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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	Installation/ mounting/ dimensions	
60715 height 140 mm width 55 mm depth 149 mm		63
height 140 mm width 55 mm depth 149 mm	mounting position	any
width 55 mm depth 149 mm	mounting position	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
depth 149 mm	mounting position fastening method	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
	mounting position fastening method height	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
required spacing	mounting position fastening method height width	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm
	mounting position fastening method height width depth	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm
	mounting position fastening method height width depth required spacing	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm 149 mm
for grounded parts at 400 V	mounting position fastening method height width depth required spacing • with side-by-side mounting at the side	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 55 mm

upo of algoritical connection	
nnections/ Terminals	
— at the side	10 mm
— upwards	50 mm
— downwards	50 mm
 for live parts at 690 V 	
— at the side	10 mm
— upwards	50 mm
— downwards	50 mm
 for grounded parts at 690 V 	
— at the side	10 mm
— upwards	50 mm
— downwards	50 mm
 for live parts at 500 V 	
— at the side	10 mm
— upwards	50 mm
— downwards	50 mm
 for grounded parts at 500 V 	
— at the side	10 mm
— upwards	50 mm
— downwards	50 mm
 for live parts at 400 V 	
— at the side	10 mm
— upwards	50 mm
— downwards	50 mm

type of electrical connection

• for main current circuit

solid or stranded

arrangement of electrical connectors for main current circuit

type of connectable conductor cross-sections

• for main contacts

- finely stranded with core end processing

• at AWG cables for main contacts

tightening torque

• for main contacts with screw-type terminals

design of screwdriver shaft size of the screwdriver tip

design of the thread of the connection screw

• for main contacts

screw-type terminals

Top and bottom

2x (1 ... 25 mm²), 1x (1 ... 35 mm²) 2x (1 ... 16 mm²), 1x (1 ... 25 mm²)

2x (18 ... 3), 1x (18 ... 2)

3 ... 4.5 N·m

Diameter 5 to 6 mm Pozidriv size 2

M6

Safety related data

B10 value

5 000 • with high demand rate according to SN 31920

proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT]

• with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

50 %

50 %

50 FIT

10 a IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Declaration of Conformity Test Certificates Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

Further information

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=3RV2031-4DB10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2031-4DB10}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DB10

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

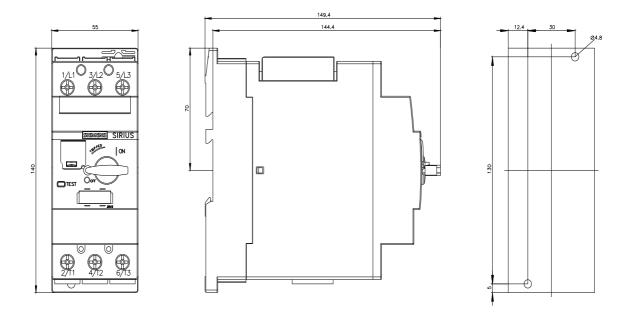
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4DB10&lang=en

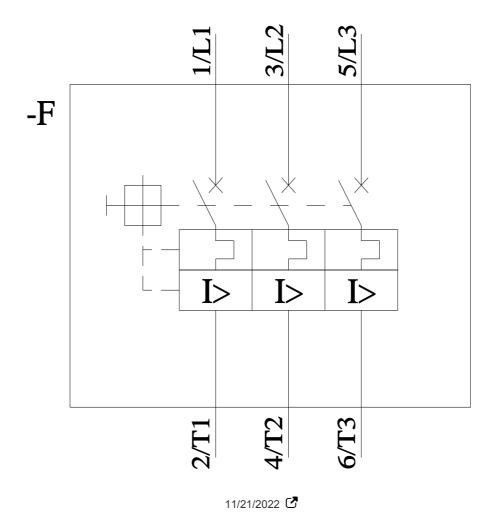
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DB10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4DB10&objecttype=14&gridview=view1





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