SIEMENS

Data sheet 3RV2131-4BA10



Circuit breaker size S2 for motor protection, CLASS 10 with overload relay function 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 with overload relay function
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
adjustable current response value current of the current-dependent overload release	14 20 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	20 A
operational current	
 at AC-3 at 400 V rated value 	20 A

	at AC-3e at 400 V rated value	20 A
	• at AC-3	
	— at 230 V rated value	5.5 kW
■ at AC-3e ■ at 230 V rated value ■ at AC-3e ■ at 230 V rated value ■ at 300 V rated value ■ at 600 V rated value ■ at AC-3e maximum ■ at AC-3e at	— at 400 V rated value	7.5 kW
	— at 500 V rated value	11 kW
at 230 V rated value	— at 690 V rated value	15 kW
at 400 V rated value	• at AC-3e	
- at 500 V rated value 15 kW - at 800 V rated value 15 kW operating frequency • at AC-3 maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts 0 • note 1 number of NC contacts for auxiliary contacts 0 • note 1 Protective and monitoring functions product function	— at 230 V rated value	5.5 kW
operating frequency • at AC-3e maximum • at AC-3e maximum • at AC-3e maximum Is 5 t/h Auxiliary circuit number of NC contacts for auxiliary contacts • note • ground fault detection • ground fault detection • ground fault detection • ground fault detection • yes trip class design of the overload release thermal breaking capacity maximum short-circuit current (Icu) • at AC at 24 UV rated value • at AC at 1500 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 650 V rated value • at AC at 650 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 600	— at 400 V rated value	7.5 kW
operating frequency	— at 500 V rated value	11 kW
* at AC-3 maximum 15 1/h **at AC-3 maximum 15 1/h **Auxillary circuit** number of NC contacts for auxiliary contacts 0 ** note 1 number of NC contacts for auxiliary contacts 0 ** note 1 **note 10 **protective and monitoring functions** **product function 10 **ground fault detection No	— at 690 V rated value	15 kW
* at AC-3e maximum Auxiliary circuit number of NC contacts for auxiliary contacts • note • note 1 number of NO contacts for auxiliary contacts • note • note 1 Protective and monitoring functions product function • ground fault detection • ground fault detection • product fault detection • product function • product fault detection • product fault detection • ground fault detection • product fault detection • product fault detection • product fault detection • ground fault detection • grou	operating frequency	
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number of NC contacts for auxiliary contacts • note 1 number of NO contacts for auxiliary contacts • note 1 protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • phase failure detection • product function • ground fault detection • phase failure detection • phase failure detection • product function • ground fault detection No • CLASS 10 thermal breaking capacity maximum short-circuit current (Icu) • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 480 V rated value • at 230 V rated value • at 230 V rated value • at 230 V rated value • at 600 V rated value • for 3-phase AC motor - at 1101/20 V rated value - at 2300 V rated value - at 220020 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 5	 at AC-3e maximum 	15 1/h
■ note number of NO contacts for auxiliary contacts ■ note note 1 Protective and monitoring functions product function ■ ground fault detection ■ phase failure detection	Auxiliary circuit	
■ note number of NO contacts for auxiliary contacts ■ note note 1 Protective and monitoring functions product function ■ ground fault detection ■ phase failure detection	number of NC contacts for auxiliary contacts	0
Protective and monitoring functions product function • ground fault detection • phase failure detection • prose failure detection • provide fault detection • provide fault detection • provide fault detection • provide fault detection • provide failure detection trip class design of the overload release breaking capacity maximum short-circuit current (icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 300 V rated value • at 480 V rated value • at 200 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 1.5 hp — at 275/600 V rated value — at 575/600 V rated value — at 60480 V rated value — at 60480 V rated value — at 605/600 V rated value — at 606 V rated value — at 6076		
Protective and monitoring functions product function • ground fault detection • phase failure detection • prose failure detection • provide fault detection • provide fault detection • provide fault detection • provide fault detection • provide failure detection trip class design of the overload release breaking capacity maximum short-circuit current (icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 300 V rated value • at 480 V rated value • at 200 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 1.5 hp — at 275/600 V rated value — at 575/600 V rated value — at 60480 V rated value — at 60480 V rated value — at 605/600 V rated value — at 606 V rated value — at 6076	number of NO contacts for auxiliary contacts	
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at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • 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 600/20 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 250/208 V rated value — at 250/200 V rated value — at 250/200 V rated value — at 575/600 V rated value — at 575/600 V rated value Product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit		J MA
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• at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • 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 200/208 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value product function short circuit protection product function short circuit trip design of the fuse link for IT network for short-circuit 20 A 20 A 21 A 22 A 25 A 26 B 26 A 27 A 28 B 29 A 20 A 20 A 20 A 20 A 21 B 20 A 20 A 21 B 20 A 20 A 21 B 20 A 20 A 20 A 20 A 21 B 20 A	at 400 V rated value	30 kA
• at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • 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 200/208 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value product function short circuit protection product function short circuit trip design of the fuse link for IT network for short-circuit 20 A 20 A 21 A 22 A 25 A 26 B 26 A 27 A 28 B 29 A 20 A 20 A 20 A 20 A 21 B 20 A 20 A 21 B 20 A 20 A 21 B 20 A 20 A 20 A 20 A 21 B 20 A	at 500 V rated value	6 kA
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## Total Control of the Short-circuit from the Short-circuit for Short-circuit for Short-circuit for Short-circuit for Short-circuit from the Short-circuit fro	·	260 A
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 for single-phase AC motor — at 110/120 V rated value		
— at 110/120 V rated value — at 230 V rated value 3 hp • for 3-phase AC motor — 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 design of the short-circuit trip magnetic magnetic		
— at 230 V rated value • for 3-phase AC motor — 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 design of the short-circuit trip magnetic magnetic		1.5 hn
● for 3-phase AC motor — 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 Yes design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit		
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- at 460/480 V rated value 15 hp - at 575/600 V rated value 20 hp Short-circuit protection Yes design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit		
— 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		
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		
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit		20 TIP
design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit		Vaa
design of the fuse link for IT network for short-circuit		
		magnetic
	protection of the main circuit	
• at 240 V none required		
• at 400 V	• at 400 V	
• at 500 V	● 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	75 mm
depth	149 mm
required spacing	
 for grounded parts at 400 V 	
— 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	F0
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side — forwards	10 mm 0 mm
for live parts at 690 V	O THIT
for live parts at 690 v downwards	50 mm
— downwards — upwards	50 mm
— upwarus — backwards	0 mm
— at the side	10 mm
— at the side — forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals 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 mm²), 1x (1 25 mm²)
at AWG cables for main contacts	2x (1 10 11111), 1x (1 25 11111) 2x (18 3), 1x (18 2)
tightening torque	(),()
for main contacts with screw-type terminals	3 4.5 N·m
for auxiliary contacts with screw-type terminals	0.8 1.2 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
of the auxiliary and control contacts	M3
Safety related data	
B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	

 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 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping









Confirmation

other

other

Railway



Vibration and Shock

Confirmation

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=3RV2131-4BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2131-4BA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4BA10

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2131-4BA10\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4BA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2131-4BA10&objecttype=14&gridview=view1

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