SIEMENS

Data sheet 3RV2131-4TA10



Circuit breaker size S2 for motor protection, CLASS 10 with overload relay function A-release 12...17 A N-release 260 A Standard switching capacity

product brand name product designation design of the product product type designation SIRIUS Circuit breaker

For motor protection with overload relay function

3R\/2

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 (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	12 17 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	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	A 1.3M
— 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	A 1.3A1
— 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
• note	1
number of NO contacts for auxiliary contacts	0
• note	1
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	tiemai
• at AC at 240 V rated value	100 kA
at AC at 240 V rated value at AC at 400 V rated value	65 kA
at AC at 500 V rated value at AC at 500 V rated value	12 kA
	5 kA
• at AC at 690 V rated value	5 KA
operating short-circuit current breaking capacity (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 	2 kA
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-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 3-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	
	Yes
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	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
	00710

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depth required spacing with side-by-ade mounting at the side 6 or grounded parts at 400 V — downwards — upwards — or the side 6 or the parts at 400 V — downwards — or the side 6 or the parts at 400 V — downwards — upwards — or the side 6 or or grounded parts at 500 V — downwards — upwards — or or grounded parts at 500 V — downwards — upwards — or the parts at 500 V — downwards — or the parts at 500 V — downwards — upwards — or the parts at 500 V — downwards — upwards — or man or the side 6 or in parts at 500 V — downwards — upwards — or man or the side — or wards — o	_	
required spacing • bit provided parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — upwards — of the parts at 400 V — downwards — or the side — upwards — or the side		1 - 1111
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- upwards		50 mm
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downwards	— at the side	10 mm
upwards	 for live parts at 400 V 	
at the side	— downwards	50 mm
• for grounded parts at 500 V — downwards — upwards — at the side — of live parts at 500 V — downwards — upwards — at the side — of live parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — upwards — ownwards — upwards — backwards — upwards — backwards — of rive parts at 690 V — downwards — for wards — of live parts at 690 V — downwards — of live parts at 690 V — downwards • for live parts at 690 V • for live parts at 690 V • for live parts at 690 V • for awaillary and control circuit • for main contacts • for main contacts • for main contacts with screw-type terminals	•	
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upwards		=0
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of the auxiliary and control contacts Safety related data B10 value 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 with high demand rate according to SN 31920 with low 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 ID a IEC 61508 protection class IP on the front according to IEC IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm
B10 value • 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 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 failure 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 ID a IEC 61508 protection class IP on the front according to IEC IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
B10 value • 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 failure rate proof test interval or service life according to IDC IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
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 IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
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 i S0 % 50 % 50 FIT 10 a	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
 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 IP20 	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3
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 IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3
 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 IP20 	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3
Protection class IP on the front according to IEC IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3 5 000 50 % 50 %
protection class IP on the front according to IEC IP20	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3 5 000 50 % 50 % 50 %
·	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3 5 000 50 % 50 % 50 %
	for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	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 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 M3 5 000 50 % 50 % 50 FIT 10 a

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











Confirmation

other

other

Railway



Vibration and Shock

Confirmation

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=3RV2131-4TA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2131-4TA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4TA10

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

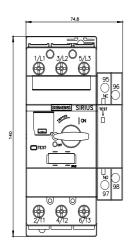
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2131-4TA10\&lang=enderse$

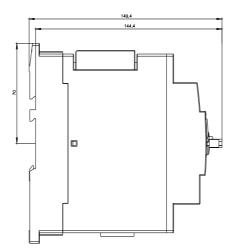
Characteristic: Tripping characteristics, I²t, Let-through current

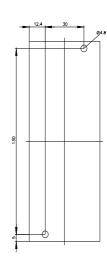
https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4TA10/char

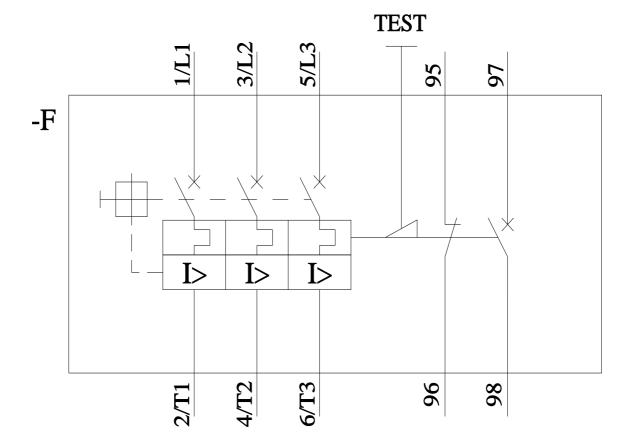
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RV2131-4TA10\&objecttype=14\&gridview=view1}$









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