## SIEMENS

## Data sheet

## 3RV2131-4RA10



Circuit breaker size S2 for motor protection, CLASS 10 with overload relay function A-release 70...80 A N-release 1040 A screw terminal Standard switching capacity

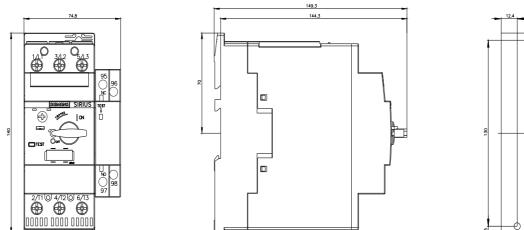


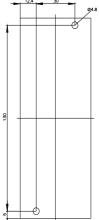
product brand name	SIRIUS			
product designation	Circuit breaker			
design of the product	For motor protection with overload relay function			
product type designation	3RV2			
General technical data				
size of the circuit-breaker	S2			
size of contactor can be combined company-specific	S2			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	29.5 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	9.8 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)				
<ul> <li>of the main contacts typical</li> </ul>	20 000			
<ul> <li>of auxiliary contacts typical</li> </ul>	20 000			
electrical endurance (operating cycles) typical	20 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	03/01/2017			
SVHC substance name	Lead - 7439-92-1			
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	70 80 A			
operating voltage				
rated value	20 690 V			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V			
operating frequency rated value	50 60 Hz			
operational current rated value	80 A			

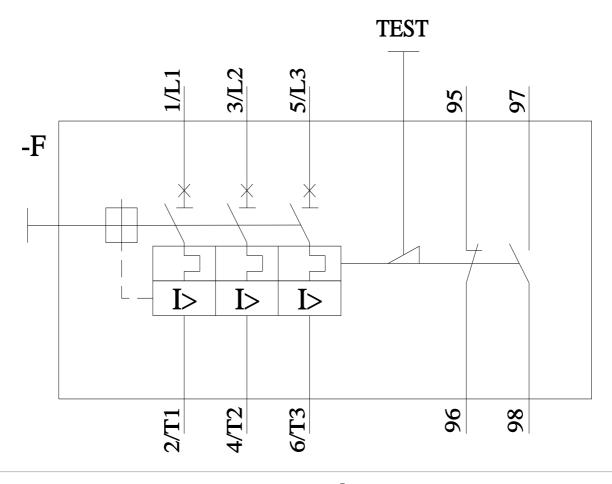
operational current80 A• at AC-3 at 400 V rated value80 Aoperating power-• at AC-3 at 230 V rated value22 kW- at 400 V rated value37 kW- at 500 V rated value55 kW- at 690 V rated value75 kWoperating frequency-• at AC-3 maximum15 1/hAuxiliary circuit0number of NC contacts for auxiliary contacts0• note1number of NO contacts for auxiliary contacts0• note1Protective and monitoring functions0	
operating power• at AC-3- at 230 V rated value22 kW- at 400 V rated value37 kW- at 500 V rated value55 kW- at 690 V rated value75 kWoperating frequency• at AC-3 maximum15 1/hAuxiliary circuitnumber of NC contacts for auxiliary contacts0• note1number of NO contacts for auxiliary contacts0• note1	
• at AC-3         22 kW           - at 230 V rated value         22 kW           - at 400 V rated value         37 kW           - at 500 V rated value         55 kW           - at 690 V rated value         75 kW           operating frequency         75 kW           • at AC-3 maximum         15 1/h           Auxiliary circuit         0           number of NC contacts for auxiliary contacts         0           • note         1           number of NO contacts for auxiliary contacts         0           • note         1	
at 230 V rated value22 kW at 400 V rated value37 kW at 500 V rated value55 kW at 690 V rated value75 kWoperating frequency15 1/h• at AC-3 maximum15 1/hAuxiliary circuit0number of NC contacts for auxiliary contacts0• note1number of NO contacts for auxiliary contacts0• note1	
at 400 V rated value     37 kW       at 500 V rated value     55 kW       at 690 V rated value     75 kW       operating frequency     75 kW       • at AC-3 maximum     15 1/h       Auxiliary circuit     0       • note     1       number of NC contacts for auxiliary contacts     0       • note     1       number of NO contacts for auxiliary contacts     1	
at 500 V rated value     55 kW       at 690 V rated value     75 kW       operating frequency     75 kW       • at AC-3 maximum     15 1/h       Auxiliary circuit     0       • note     1       number of NC contacts for auxiliary contacts     0       • note     1       number of NO contacts for auxiliary contacts     1       • note     1	
at 690 V rated value     75 kW       operating frequency	
operating frequency     15 1/h       • at AC-3 maximum     15 1/h       Auxiliary circuit     0       number of NC contacts for auxiliary contacts     0       • note     1       number of NO contacts for auxiliary contacts     0       • note     1       • note     1	
Auxiliary circuit       number of NC contacts for auxiliary contacts     0       • note     1       number of NO contacts for auxiliary contacts     0       • note     1	
number of NC contacts for auxiliary contacts     0       • note     1       number of NO contacts for auxiliary contacts     0       • note     1	_
note     1     number of NO contacts for auxiliary contacts     o note     1	
number of NO contacts for auxiliary contacts     0       • note     1	
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)	
• at AC at 240 V rated value 65 kA	
• at AC at 400 V rated value 65 kA	
at AC at 500 V rated value     8 kA	
at AC at 690 V rated value     4 kA	
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value 65 kA	
• at 400 V rated value 30 kA	
• at 500 V rated value 5 kA	
at 690 V rated value     2 kA	
response value current of instantaneous short-circuit trip unit 1 040 A	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value 77 A	
at 600 V rated value 77 A	
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value 7.5 hp	
— at 230 V rated value 15 hp	
• for 3-phase AC motor	
- at 200/208 V rated value 25 hp	
— at 220/230 V rated value 30 hp	
— at 460/480 V rated value 60 hp	
— at 575/600 V rated value 75 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 160	
• at 500 V 125	
• at 690 V 100	
Installation/ mounting/ dimensions	
mounting position any	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to	DIN EN 60715
height 140 mm	
width 75 mm	
depth 149 mm	
required spacing	

<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm			
<ul> <li>for grounded parts at 400 V</li> </ul>				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
<ul> <li>for live parts at 400 V</li> </ul>				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
<ul> <li>for grounded parts at 500 V</li> </ul>				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
<ul> <li>for live parts at 500 V</li> </ul>				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
<ul> <li>for grounded parts at 690 V</li> </ul>				
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	10 mm			
— forwards	0 mm			
• for live parts at 690 V				
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	10 mm			
— forwards	0 mm			
Connections/ Terminals				
Connections/ Terminals type of electrical connection				
type of electrical connection	screw-type terminals			
type of electrical connection • for main current circuit	screw-type terminals			
<ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
type of electrical connection • for main current circuit				
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li>	screw-type terminals			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	screw-type terminals Top and bottom			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )			
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li>	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1)			
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m			
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for main contacts         tightening torque         • for main contacts with screw-type terminals	screw-type terminals Top and bottom 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m 0.8 1.2 N·m			
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type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for main contacts         tightening torque         • for main contacts with screw-type terminals         • for auxiliary 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 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm			
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type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for main contacts         tightening torque         • for main contacts with screw-type terminals         • for auxiliary 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 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M6			
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type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         - solid or stranded         - finely stranded with core end processing         • for AWG cables for main contacts         tightening torque         • for auxiliary contacts with screw-type terminals         • for auxiliary 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         • of the auxiliary and control contacts         Safety related data         product function suitable for safety function         suitability for use         • safety-related switching on         • safety-related switching OFF         service life maximum         test wear-related service life necessary         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920	screw-type terminals           Top and bottom           2x (1 35 mm²), 1x (1 50 mm²)           2x (1 25 mm²), 1x (1 35 mm²)           2x (1 8 2), 1x (18 1)           3 4.5 N·m           0.8 1.2 N·m           Diameter 5 to 6 mm           Pozidriv size 2           M6           M3           Yes           10 a           Yes           40 %           50 %			

ISO 13849			•				
	device type according to ISO 13849-1 3						
overdimensioning according to ISO 13849-2 necessary			Yes	Yes			
IEC 61508							
	safety device type according to IEC 61508-2		Туре	A			
<ul> <li>for proof test interval or service life according to IEC</li> </ul>		10 a	10 a				
61508							
Electrical Safety	the formt and a second in a test	50 00500	1000				
-	the front according to I			IP20			
· ·	e front according to IEC	60529	finger	-safe, for vertical contact	from the front		
Display							
display version for swite	ching status		Handl	e			
Approvals Certificates General Product Appr	roval		_				
General Froduct App	ovai						
CE EG-Konf.	UK CA	<u>Confirmation</u>	ם	() CCC	(UL) ut	KC	
General Product Ap- proval	Test Certificates			Marine / Shipping			
EHC	Type Test Certific- ates/Test Report	<u>Special Test Ce</u> <u>ate</u>	ertific-	ABS	B U REAU VERITAS		
Marine / Shipping				other			
Lloyd's Register uis	PRS	RINA		<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment					
Special Test Certific- ate	Confirmation	EPD		Siemens EcoTech	Environmental Con- firmations		
<b>F</b>							
Further information Information on the page	ckaging						
https://support.industry.	siemens.com/cs/ww/en/v	iew/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=3RV2131-4RA10							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2131-4RA10							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4RA10							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2131-4RA10⟨=en Characteristic: Tripping characteristics, I²t, Let-through current							
https://support.industry.	siemens.com/cs/ww/en/p	s/3RV2131-4RA10	)/char	、 、			
Further characteristics http://www.automation.s	s (e.g. electrical endural siemens.com/bilddb/index	nce, switching fre <u>aspx?view=Se</u> arc	equency	' <b>)</b> = <u>3RV2131-4RA10&amp;o</u> biec	ttype=14&gridview=view1		







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