## **SIEMENS**

Data sheet 3RB3143-4UB0



Overload relay 12.5...50 A Electronic For motor protection Size S3, Class 5E...30E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product designation General technical data size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contactor can be combined company-specific Size of overload relay Size of contact overload relay Size of overload relay Size	product brand name	SIRIUS
Size of overload relay  size of contactor can be combined company-specific  power loss [VI] for rated value of the current at AC in hot operating state  • per pole  • per pole  insulation voltage with degree of pollution 3 at AC rated value  * per pole  insulation voltage with degree of pollution 3 at AC rated value  * surge voltage resistance rated value  * in networks with ungrounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • shock resistance  • according to IEC 60068-2-27  thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  for a caccrding to IEC 81346-2  Full thermal current  caccrding to IEC 81346-2  Full thermal current  Lead -7439-92-1  Lead -7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Lead -7439-92-1  Lead -7439-92-1  Lead -7439-92-1  Lead -7439-92-1  Lead -7439-92-1  Lead -74	product designation	solid-state overload relay
size of contactor can be combined company-specific S3 size of contactor can be combined company-specific Power loss IVI for rated value of the current at AC in hot operating state  • per pole Insulation voltage with degree of pollution 3 at AC rated value Surge voltage resistance rated value Raximum permissible voltage for protective separation • in networks with ungrounded star point between auxiliary and auxiliary circuit • in networks with grounded star point between auxiliary and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • according to IEC 60068-2-27  thermal current  50 A  15g /11 ms; Signalling contact 97 / 98 in position "Tripped": 8g / 11 ms  50 A  Ferference code according to IEC 81346-2  Substance Prohibitance (Date)  303 IVI Substance Prohibitance (Date)  303 IVI Substance Prohibitance (Date)  303 IVI Substance Prohibitance (Date)  304 IVI Substance Prohibitance (Date)  305 IVI Substance Prohibitance (Date)  306 IVI Substance Prohibitance (Date)  307 IVI Substance Prohibitance (Date)  308 IVI Substance Prohibitance (Date)  309 IVI Substance Prohibitance (Date)  309 IVI Substance Prohibitance (Date)  300 IVI Substance Prohibitance (Date)  300 IVI Substance Prohibitance (Date)  301 IVI Substance Prohibitance (Date)  301 IVI Substance Prohibitance (Date)  302 IVI Substance Prohibitance (Date)  303 IVI Substance Prohibitance (Date)  304 IVI Substance Prohibitance (Date)  305 IVI Substance Prohibitance (Date)  307 IVI Substance Prohibitance (Date)  308 IVI Substance Prohibitance (Date)  309 IVI Substance Prohibitance (Date)  300 IVI Substance Prohibitance (Date)  300 IVI Substance Prohibitance	product type designation	3RB3
size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state • per pole insulation voltage with degree of pollution 3 at AC rated value  **per pole **per pole** **per pole 1000 V **surge voltage resistance rated value **maximum permissible voltage for protective separation • in networks with ungrounded star point between auxiliary and auxiliary circuit • in networks with grounded star point between auxiliary and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • shock resistance • according to IEC 60068-2-27 • 15g/11 ms; Signating contact 97 / 98 in position "Tripped": 8g / 11 ms  **thermal current** **per pole 0.3 W  **Substance Prohibitance (Date) 03/01/2017  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight 225 g  **Ambient conditions** installation altitude at height above sea level maximum 2 0000 m  **ambient temperature** • during operation 25 +60 °C • during storage 40 +80 °C • during transport 40 +80 °C • during transport 40 +80 °C  **temperature compensation 10 95 %  **Main circuit** number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage	General technical data	
power loss [W] for rated value of the current at AC in hot operating state  • per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  8 kV  maximum permissible voltage for protective separation  • in networks with ungrounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • according to IEC 60068-2-27  15g / 11 ms  15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms  • according to IEC 81346-2  F Substance Prohibitance (Date)  SyHC substance Prohibitance (Date)  SyHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  40 +80 °C  temperature compensation  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	size of overload relay	S3
operating state  • per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for protective separation  • in networks with ungrounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  shock resistance  • according to IEC 60068-2-27  thermal current  50 A  reference code according to IEC 81346-2  F  Substance Prohibitance (Date)  30/12017  SVHC substance name  Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  temperature compensation  relative humidity during operation  40 +80 °C  temperature temperation  10 95 %  Main circuit  number of poles for main current of the current-dependent overload release  operating voltage	size of contactor can be combined company-specific	S3
insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for protective separation  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with grounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with ungrounded star point between auxiliary and your count good value in networks with ungrounded star point between main and auxiliary circuit  in networks with ungrounded star point between auxiliary and your count good value (above value (above value) value		0.9 W
surge voltage resistance rated value maximum permissible voltage for protective separation  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with grounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance  according to IEC 60068-2-27  15g / 11 ms; Signaling contact 97 / 98 in position "Tripped"; 8g / 11 ms  thermal current  50 A  reference code according to IEC 81346-2  Fubstance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Weight  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  during storage  during transport  40 +80 °C  temperature compensation  relative humidity during operation  Adjustable current response value current of the current-dependent overload release  operating voltage	• per pole	0.3 W
maximum permissible voltage for protective separation  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance  according to IEC 60068-2-27  15g / 11 ms  saccording to IEC 60068-2-27  15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms  thermal current  reference code according to IEC 81346-2  F Substance Prohibitance (Date)  30/01/2017  SVHC substance name  Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  olduring operation  -25 +60 °C  during storage  -40 +80 °C  eduring transport  temperature compensation  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	insulation voltage with degree of pollution 3 at AC rated value	1 000 V
in networks with ungrounded star point between auxiliary and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with ungrounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit shock resistance secording to IEC 60068-2-27 15g / 11 ms  thermal current 50 A reference code according to IEC 81346-2 F Substance Prohibitance (Date) 30/01/2017  SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight 225 g  Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -25 +60 °C -40 +80 °C -40 +80 °C -40 +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 operating voltage	surge voltage resistance rated value	8 kV
and auxiliary circuit  in networks with grounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance  according to IEC 60068-2-27  15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms  thermal current  50 A  reference code according to IEC 81346-2  F Substance Prohibitance (Date)  3/01/2017  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oluring operation  -25 +60 °C  oluring transport  -40 +80 °C  temperature compensation  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	maximum permissible voltage for protective separation	
and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance  according to IEC 60068-2-27  thermal current  50 A  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  olduring operation  during storage  during transport  40 +80 °C  temperature compensation  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage		300 V
auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance  according to IEC 60068-2-27  15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms  thermal current  50 A  reference code according to IEC 81346-2  F Substance Prohibitance (Date)  30/301/2017  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  during storage  during storage  during transport  40 +80 °C  temperature compensation  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage		300 V
shock resistance • according to IEC 60068-2-27 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms  thermal current 50 A  reference code according to IEC 81346-2 F Substance Prohibitance (Date) 30/01/2017  SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight 225 g  Amblent conditions installation altitude at height above sea level maximum amblent temperature • during operation • during storage • during storage • during transport -40 +80 °C • during transport temperature compensation relative humidity during operation 10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	·	600 V
* according to IEC 60068-2-27     ** 15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms     ** thermal current		690 V
thermal current  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  temperature compensation  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	shock resistance	8g / 11 ms
reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  during storage  during transport  temperature compensation  relative humidity during operation  altitude at height above sea level maximum  2 000 m  -25 +60 °C  -40 +80 °C  temperature compensation  -25 +60 °C  temperature compensation  -25 +60 °C  temperature compensation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	• according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms
Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  -40 +80 °C  • during transport  -25 +60 °C  temperature compensation -25 +60 °C  temperature compensation -25 +60 °C  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	thermal current	50 A
SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8  Weight  225 g  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -40 +80 °C  • during transport  -25 +60 °C  temperature compensation  -25 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	reference code according to IEC 81346-2	F
Lead monoxide (lead oxide) - 1317-36-8  Weight 225 g  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -25 +60 °C  • during storage -40 +80 °C  • during transport -40 +80 °C  temperature compensation -25 +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  operating voltage	Substance Prohibitance (Date)	03/01/2017
installation altitude at height above sea level maximum  ambient temperature  during operation during storage during transport  during transport  -40 +80 °C  during transport  -40 +80 °C  temperature compensation -25 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	SVHC substance name	
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -40 +80 °C  • during transport  -40 +80 °C  temperature compensation  -25 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	Weight	225 g
ambient temperature  • during operation  • during storage  • during transport  -40 +80 °C  • during transport  -40 +80 °C  temperature compensation  -25 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>40 +80 °C</li> <li>temperature compensation</li> <li>25 +60 °C</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> </ul>	installation altitude at height above sea level maximum	2 000 m
• during storage     • during transport	ambient temperature	
◆ during transport	<ul> <li>during operation</li> </ul>	-25 +60 °C
temperature compensation  -25 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage	during storage	-40 +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  operating voltage	during transport	-40 +80 °C
Main circuit  number of poles for main current circuit  adjustable current response value current of the current- dependent overload release  operating voltage	temperature compensation	-25 +60 °C
number of poles for main current circuit  adjustable current response value current of the current- dependent overload release  operating voltage  3  12.5 50 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release operating voltage	Main circuit	
dependent overload release  operating voltage	number of poles for main current circuit	3
		12.5 50 A
₹ rated value	operating voltage  • rated value	1 000 V

for remote-reset function at DC	24 V
at AC-3e rated value maximum	1 000 V
	50 60 Hz
operating frequency rated value operational current rated value	50 A
operational current rated value operational current at AC-3e at 400 V rated value	50 A
	50 A
operating power	7.5 00 144
• for 3-phase motors at 400 V at 50 Hz	7.5 22 kW 11 30 kW
<ul> <li>for AC motors at 500 V at 50 Hz</li> <li>for AC motors at 690 V at 50 Hz</li> </ul>	11 45 kW
	11 45 KVV
Auxiliary circuit	integrated
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
• note	for message "tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
● at 24 V	4 A
• at 110 V	4 A
• at 120 V	4 A
● at 125 V	4 A
• at 230 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A
Protective and monitoring functions	
trip class	CLASS 5E, 10E, 20E and 30E adjustable
design of the overload release	electronic
response value current of the grounding protection minimum	0.75 x IMotor
response time of the grounding protection in settled state	1 000 ms
operating range of the grounding protection relating to	
current set value	
• minimum	IMotor > lower current setting value
• maximum	IMotor < upper current setting value x 3.5
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	50 A
at 600 V rated value	50 A
contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	
design of the fuse link	
• for short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 200 A
— with type of assignment 2 required	gG: 200 A
	fuse gG: 6 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	100 90.07
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions</li> </ul>	
· · · · · · · · · · · · · · · · · · ·	any
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	any
Installation/ mounting/ dimensions mounting position fastening method	any Contactor mounting
Installation/ mounting/ dimensions mounting position fastening method height	any Contactor mounting 106 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	any Contactor mounting 106 mm 70 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals	any Contactor mounting 106 mm 70 mm 124 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	any Contactor mounting 106 mm 70 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	any Contactor mounting 106 mm 70 mm 124 mm
Installation/ mounting/ dimensions  mounting position fastening method height width depth  Connections/ Terminals product component removable terminal for auxiliary and control circuit	any Contactor mounting 106 mm 70 mm 124 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	any Contactor mounting 106 mm 70 mm 124 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	any Contactor mounting 106 mm 70 mm 124 mm  Yes  screw-type terminals

circuit	
type of connectable conductor cross-sections for main contacts	
• solid	2x (2.5 16 mm²)
• stranded	2x 16 mm²
solid or stranded	1x (2,5 70 mm²), 2x (2,5 50 mm²)
finely stranded with core end processing	1x (2,5 50 mm²), 2x (2,5 35 mm²)
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
— solid or stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for auxiliary contacts	2x (20 14)
tightening torque	
for main contacts with screw-type terminals	4.5 6 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 PZ 2
design of the thread of the connection screw	
• for main contacts	M6
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Electrical Safety	
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
Communication/ Protocol	
type of voltage supply via input/output link master	No
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV (line to line) corresponds to degree of severity 3
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Display	
display version for switching status	Slide switch
Approvals Certificates	

## **General Product Approval**







Confirmation





EMV For use in hazardous locations

**Test Certificates** 

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping





Confirmation

other

Environmental Confirmations

Environment

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=3RB3143-4UB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3143-4UB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3143-4UB0

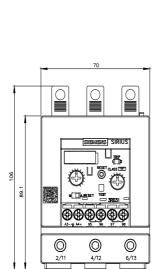
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3143-4UB0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3143-4UB0&lang=en</a>

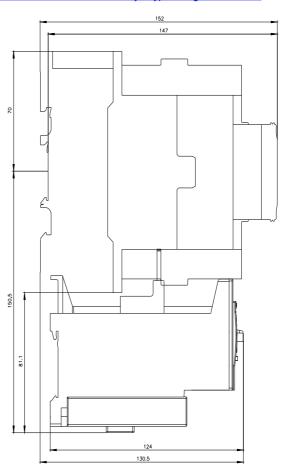
Characteristic: Tripping characteristics, I2t, Let-through current

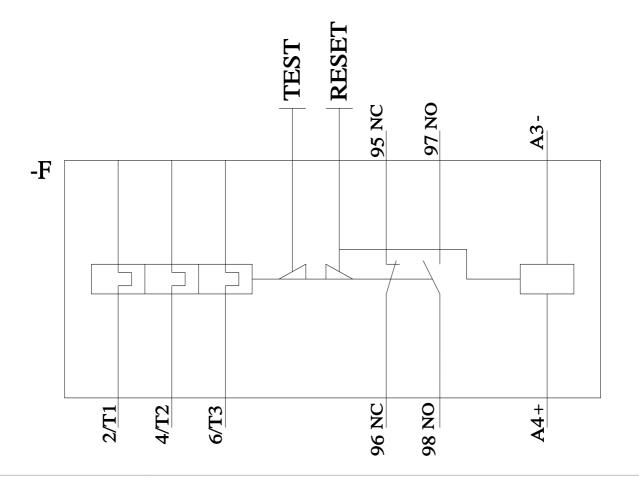
https://support.industry.siemens.com/cs/ww/en/ps/3RB3143-4UB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3143-4UB0&objecttype=14&gridview=view1







last modified: 3/11/2024 🖸