SIEMENS

Data sheet 3RB2163-4GC2



Overload relay 55...250 A for motor protection Size S10/S12, CLASS 5...30E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset Internal ground fault detection

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB2
General technical data	
size of overload relay	S10, S12
size of contactor can be combined company-specific	S10, S12
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
maximum permissible voltage for protective separation	
 in networks with ungrounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with ungrounded star point between main and auxiliary circuit 	600 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
shock resistance	15g / 11 ms
according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
thermal current	250 A
recovery time after overload trip	
 with automatic reset typical 	3 min
with remote-reset	0 min
with manual reset	0 min
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	07/01/2006
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	1.603 kg
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	55 250 A

- mater value 1000 V 24		
* en AC-3e rated value maximum Operating frequency rated value Operating fower * for 3-phase motions at 400 V at 50 Hz * for 3-phase motions at 400 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions at 500 V at 50 Hz * for AC motions for auxiliary contacts * for Motions at 500 V at 50 Hz * for		
a A AC-9e rated value	rated value	1 000 V
poperational current rated value operational current rated value • for A-Drabase motors at 400 V at 50 Hz • for A-C motors at 500 V at 50 Hz • for A-C motors at 500 V at 50 Hz • for A-C motors at 500 V at 50 Hz • for A-C motors at 500 V at 50 Hz • for A-C motors at 500 V at 50 Hz • for A-C motors at 500 V at 50 Hz • for contacts for auxiliary centacts • note • n	 for remote-reset function at DC 	24 V
poperational current rated value operating power * for 3-phase micros at 400 V at 50 Hz * for 5-phase micros at 400 V at 50 Hz * for AC motors at 500 Hz * for AC motor	at AC-3e rated value maximum	1 000 V
operating power • for 3 purses mitors at 400 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for Contacts for auxiliary switch short • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • at 110 V • at 120 V • at 120 V • at 125 V • at 220 V • at 100 V • at 125 V • at 220 V • at 100 V • at 125 V • at 220 V • at 100 V • at 125 V • at 220 V • at 100 V • at 125 V • at 100 V • at 125 V • at 100 V • at 100 V • at 125 V • at 100 V	operating frequency rated value	50 60 Hz
operating power • for Ac motions at 900 V at 50 Hz • for AC motions at 900 V at 50 Hz • for AC motions at 900 V at 50 Hz • for AC motions at 900 V at 50 Hz Ansutiary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • note	operational current rated value	250 A
* for 3-phase motors at 500 V at 50 Hz * for AC motors at 500 V at 50 Hz * for AC motors at 500 V at 50 Hz * for AC motors at 500 V at 50 Hz * for AC motors at 500 V at 50 Hz * for AC motors at 500 V at 50 Hz * for Contacts for auxiliary contacts * for message "tripped" * for contacts for auxiliary contacts * for message "tripped" * for message "trippe	operational current at AC-3e at 400 V rated value	250 A
• for AC motors at 890 V at 50 Hz	operating power	
e for AC motors at 690 V at 50 Hz Auxillary circuit design of the auxillary switch number of NC contacts for auxillary contacts note number of NC contacts for auxillary contacts note number of NC contacts for auxillary contacts note number of CO contacts for auxillary contacts note number of CO contacts for auxillary contacts operational current of auxillary contacts at AC-15 1 4 A 1110 V 1112 V 1120 V	 for 3-phase motors at 400 V at 50 Hz 	30 132 kW
Auxillary circuit design of the auxillary switch	• for AC motors at 500 V at 50 Hz	45 160 kW
design of the auxiliary switch number of NC contacts for auxiliary contacts • note • note • note • note of contacts for auxiliary contacts • note • note operational current of auxiliary contacts • all 24 V • at 110 V • at 120 V • a	• for AC motors at 690 V at 50 Hz	55 250 kW
number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 100 V • at	Auxiliary circuit	
number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 100 V • at	design of the auxiliary switch	integrated
number of NO contacts for auxillary contacts	number of NC contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V • at 130 V • at 110 V • at 125 V • at 110 V • at 125 V • at 125 V • at 110 V • at 110 V • at 126 V • at 126 V • at 126 V • at 100 V • at 126 V • at 100 V • at 110 V • at 125 V • at 125 V • at 120 V • at 100 V • at 110 V • at 125 V • at 100 V • at 110 V	-	for contactor disconnection
number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V • at 26 V • at 26 V • at 27 V • at 28 V • at 29 V • at 100 V • at 125 V • at 28 V • at 28 V • at 28 V • at 29 V • at 100 V • at 125 V • at 28 V • at 29 V • at 100 V • at 125 V • at 28 V • at 29 V • at 29 V • at 20 V • at 2	number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts at AC-15 at 24 V at 110 V 4 A at 1120 V 4 A at 125 V at 25 V at 230 V 0 at 25 V at 300 V 6 at 125 V at 220 V 0.55 A at 110 V 6 at 125 V at 220 V 0.55 A at 110 V 0.3 A at 125 V 0.3 A 0.3 A 2.4 C at 125 V 0.3 A 0.3 A 2.5 A at 125 V 0.3 A 2.6 C at 110 V 0.75 A at 125 V 0.75 A at 125 V 0.8 A at 125 V 0.9 A at 125 V 0.9 A at 125 V 0.9 A at 125 V 0.10 A at 125 V 0.10 A at 125 V 0.10 A at 125 V 10 B at	•	for message "tripped"
operational current of auxiliary contacts at AC-15		
e at 24 V e at 110 V e at 120 V e at 125 V 4 A e at 125 V 4 A e at 125 V 4 A e at 125 V 9 A e at 230 V 9 operational current of auxiliary contacts at DC-13 e at 24 V e at 800 V e at 125 V e at 800 V e at 125 V e at 800 V e at 125 V e at 220 V e at 120 V e at 125 V e at 220		
e at 110 V e at 120 V e at 230 V operational current of auxiliary contacts at DC-13 e at 24 V e at 80 V e at 80 V e at 110 V e at 125 V e at 120 V e at 1	•	4 A
e at 125 V e at 230 V 3 A porational current of auxiliary contacts at DC-13 e at 24 V e at 60 V 0.55 A e at 110 V 0.3 A e at 125 V 0.3 A e at 125 V 0.11 A Protective and monitoring functions trip class CLASS 5E, 10E, 20E and 30E adjustable electronic response value current of the grounding protection minimum 0.75 x Motor response time of the grounding protection in settled state operating range of the grounding protection relating to current set value e minimum Motor > lower current setting value e minimum Motor > lower current setting value e minimum Motor > lower current setting value e minimum Endod current (FLA) for 3-phase AC motor e at 480 V rated value e at 600 V rated value good at 600 V rated value e at 600 V rated value e ontact rating of auxiliary contacts according to UL B600 / R300 Short-circuit protection of the main circuit e with type of assignment 2 required e for short-circuit protection of the main circuit e with type of assignment 2 required gG: 500 A, Class L: 700 A gG: 500 A lass G:		
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• at 24 V • at 60 V • at 1110 V • at 1125 V • at 125 V		3A
at 110 V at 125 V at 125 V but 125 V cat 220 V but 125 V cat 220	•	2 ^
at 110 V at 125 V 0.3 A at 125 V 0.11 A Protective and monitoring functions trip class design of the overload release electronic response value current of the grounding protection minimum response time of the grounding protection in settled state operating range of the grounding protection relating to current set value minimum mainimum lMotor > lower current setting value mainimum mainimum lMotor > lower current setting value mainimum lMotor > upper current setting value x 3.5 UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 250 A at 600 V rated value 250 A at 600 V rated value 250 A solo V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fuse gG: 800 A for short-circuit protection of the auxiliary switch required fuse gG: 60 A Contactor mounting/stand-alone installation height 119 mm width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
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• at 220 V Protective and monitoring functions trip class CLASS 5E, 10E, 20E and 30E adjustable design of the overload release response value current of the grounding protection minimum response time of the grounding protection in settled state operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 680 V rated value • at 680 V rated value • ontact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method depth Contactor mounting/stand-alone installation height 19 mm width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
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■ maximum	current set value	
## Connections/ Terminals ## Product component removable terminal for auxiliary and control circuit type of electrical connection ## Connections		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 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 — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 119 mm width depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		IMotor < upper current setting value x 3.5
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Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A, Class L: 700 A — with type of assignment 2 required gG: 500 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		250 A
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— with type of coordination 1 required — with type of assignment 2 required gG: 500 A, Class L: 700 A — with type of assignment 2 required fuse gG: 500 A Installation/ mounting/ dimensions mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	design of the fuse link	
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Installation/ mounting/ dimensions mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	— with type of assignment 2 required	gG: 500 A
Installation/ mounting/ dimensions mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	• for short-circuit protection of the auxiliary switch required	fuse gG: 6 A
fastening method Contactor mounting/stand-alone installation 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
fastening method Contactor mounting/stand-alone installation 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		any
height 119 mm width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
width 120 mm depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		-
depth 155 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
product component removable terminal for auxiliary and control circuit type of electrical connection	·	
type of electrical connection	product component removable terminal for auxiliary and	Yes
••		
● 101 main current circuit Dusbar connection	• •	hugher connection
	• for main current circuit	Duspai Connection

for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
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 	20 22 N·m
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
design of the thread of the connection screw	
• for main contacts	M10
 of the auxiliary and control contacts 	M3
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Communication/ Protocol	
type of voltage supply via input/output link master	No
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	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
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3
 due to high-frequency radiation according to IEC 61000- 4-6 	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	

 $C \in$

General Product Approval





Confirmation



Type Test Certificates/Test Report

Test Certificates

other Environment

<u>Miscellaneous</u> <u>Confirmation</u> <u>Environmental Confirmations</u>

Further informatior

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=3RB2163-4GC2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2163-4GC2

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RB2163-4GC2

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

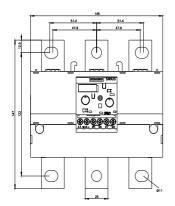
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2163-4GC2&lang=en

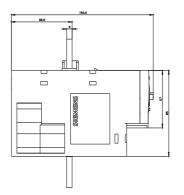
Characteristic: Tripping characteristics, I2t, Let-through current

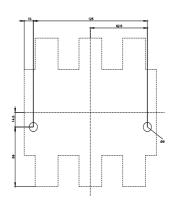
https://support.industry.siemens.com/cs/ww/en/ps/3RB2163-4GC2/char

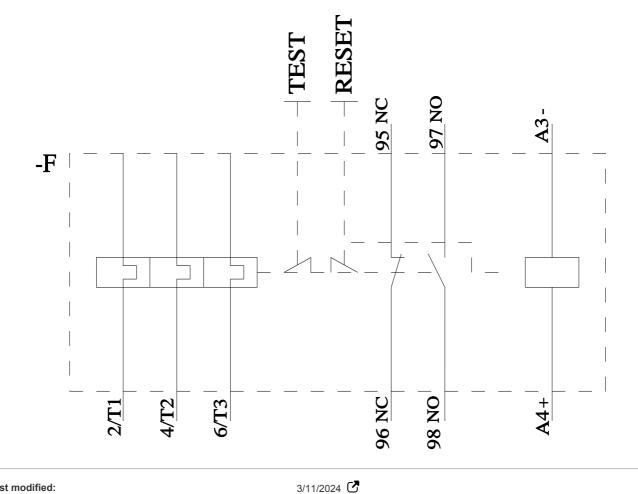
Further characteristics (e.g. electrical endurance, switching frequency)

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