SIEMENS

Data sheet 3RB2153-4FX2

0101110



Overload relay 50...200 A for motor protection Size S6, CLASS 5...30E Contactor mounting/stand-alone installation Main circuit: straight-through transformer Auxiliary circuit: Spring-type 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	S6
size of contactor can be combined company-specific	S6
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 grounded star point	
 between auxiliary and auxiliary circuit 	300 V
 between auxiliary and auxiliary circuit 	300 V
 between main and auxiliary circuit 	600 V
between main and auxiliary circuit	690 V
shock resistance	15g / 11 ms
• according to IEC 60068-2-27	15g / 11 ms
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
thermal current	200 A
type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p]
certificate of suitability according to ATEX directive 2014/34/EU	PTB 06 ATEX 3001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	07/01/2006
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	50 200 A
operating voltage	
• rated value	1 000 V
 for remote-reset function at DC 	24 V
at AC-3e rated value maximum	1 000 V
operating frequency rated value	50 60 Hz
operational current rated value	200 A
operational current at AC-3e at 400 V rated value	200 A

operating power * for AC motion at 400 V at 50 Hz * for AC motion at 400 V at 50 Hz * for AC motion at 400 V at 50 Hz * for AC motion at 400 V at 50 Hz * for AC motion at 400 V at 50 Hz * for AC motion at 400 V at 50 Hz * for Ac motion at 400 V at 50 Hz * for Accordance of NC contacts for auxiliary contacts * robic * number of NC contacts for auxiliary contacts * robic * number of NC contacts for auxiliary contacts * robic * number of CO contacts for auxiliary contacts * robic * accordance of CO contacts for auxiliary contacts at AC-15 * at 120 V * at 110 V * at 125 V * at 160 V * at 125 V * at 60 V * at 125 V * at		
* or AC motors at 500 V at 50 Hz * or AC motors at 500 V at 50 Hz * or AC motors at 500 V at 50 Hz * or AC motors at 500 V at 50 Hz * or AC motors of seal value of the suciliary switch * or note * or note of No contacts for auxiliary contacts * or note * or n	operating power	
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number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	number of NO contacts for auxiliary contacts	1
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at 120 V at 125 V at 125 V at 125 V at 125 V at 230 V operational current of auxiliary contacts at DC-13 at 26 V at 60 V ot 125 V at 100 V ot 125 V at 110 V ot 125 V at 125 V ot 125 V at 125 V ot 125 V at 125 V at 125 V at 125 V ot 125 V at 125 V ot 125 V at 125 V ot 125	• at 24 V	4 A
at 128 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 160 V at 1150 V at 1150 V at 125 V building the overload release cresponse value current of the grounding protection minimum response value current of the grounding protection relating to current set value maximum	• at 110 V	4 A
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operational current of auxiliary contacts at DC-13 • at 24 V • at 800 V • at 110 V • at 125 V • at 125 V • at 220 V • ot 125 V • at 220 V • ot 125 V • ot 220 V • o	• at 125 V	4 A
at 24 V at 50 V billion at 125 V cal 110 V cal 125 V cal 220 V ca	• at 230 V	3 A
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arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid Top and bottom Top and bottom 2x (0.25 1.5 mm²)		
type of connectable conductor cross-sections	·	· ·
 for auxiliary contacts — solid 2x (0.25 1.5 mm²) 		
— solid 2x (0.25 1.5 mm²)	type of connectable conductor cross-sections	
	• for auxiliary contacts	
— solid or stranded 2x (0,25 1,5 mm²)	— solid	2x (0.25 1.5 mm²)
	— solid or stranded	2x (0,25 1,5 mm²)

 finely stranded with core end processing 	2x (0.25 1.5 mm²)		
 finely stranded without core end processing 	2x (0.25 1.5 mm²)		
 for AWG cables for auxiliary contacts 	2x (24 16)		
Safety related data			
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			
 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 g	% 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		
Certificates/ approvals			
General Product Approval		EMC	



Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping

LRS





Confirmation

other

Miscellaneous

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RB2153-4FX2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2153-4FX2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB2153-4FX2

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

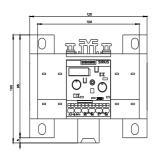
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2153-4FX2&lang=en

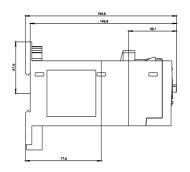
Characteristic: Tripping characteristics, I2t, Let-through current

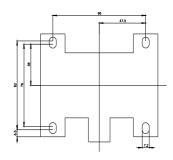
https://support.industry.siemens.com/cs/ww/en/ps/3RB2153-4FX2/char

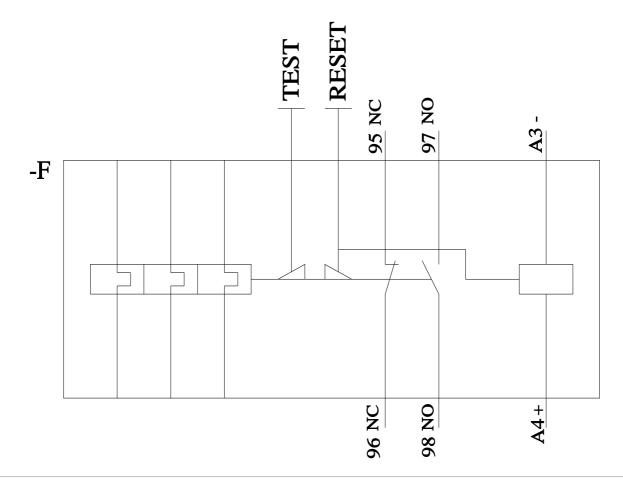
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2153-4FX2&objecttype=14&gridview=view1









last modified:

2/9/2022

3RB21534FX2 Page 5/5	>