SIEMENS

Data sheet 3RB2153-4FW2

Figure similar

OVERLOAD RELAY 50...200 A FOR MOTOR PROTECTION SIZE S6, CLASS 5...30 MOUNT. ONTO CONT./ STAND-ALONE MAIN CIRCUIT: THROUGH TRANSF. AUX. CIRCUIT: SCREW CONNECTION MANUAL-AUTOMATIC-RESET INT. EARTH FAULT DETECTION

product brand name	SIRIUS
Product designation	solid-state overload relay

General technical data:	
Size of contactor can be combined company-specific	S6
Active power loss total typical	0.05 W
Insulation voltage	
• with degree of pollution 3 Rated value	1 000 V
Surge voltage resistance Rated value	8 kV
Protection class IP	
• on the front	IP20
Type of assignment	2
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

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
Relative humidity during operation	100 %

Main circuit:

Number of poles for main current circuit	3
Adjustable response value current of the current-dependent overload release	50 ... 200 A
Operating voltage	
• at AC-3 Rated value maximum	1 000 V

Auxiliary circuit:

Number of NC contacts	
• for auxiliary contacts	1
Number of NO contacts	
• for auxiliary contacts	1
Number of CO contacts	
• for auxiliary contacts	0
Operating current of the 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
Operating current of the 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 5, 10, 20 and 30 adjustable

Short-circuit:

Design of the fuse link	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A

Installation/ mounting/ dimensions:

mounting position	any
Mounting type	direct mounting / stand-alone installation
Height	119 mm
Width	120 mm
Depth	155 mm
Required spacing	
• with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm

— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

Connections/ Terminals:

Product function	
• removable terminal for auxiliary and control circuit	Yes
Type of electrical connection	
• for main current circuit	straight-through transformers
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-section	
• for auxiliary contacts	
— solid	0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²)
— finely stranded with core end processing	0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)
• for AWG conductors for auxiliary contacts	2x (20 ... 14)

Mechanical data:

Size of overload relay	S6

Electromagnetic compatibility:

Conducted interference due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (line to line) corresponds to degree of severity 3
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge

Certificates/ approvals:

General Product Approval				EMC	For use in hazardous locations
CCC	CSA		UL	C-TICK	ATEX

Declaration of Conformity	Test Certificates		Shipping Approval		
EG-Konf.	spezielle Prüfbescheinigungen	Typprüfbescheinigung/Werkszeugnis	ABS	DNV	GL

Shipping Approval		other	
LRS	RINA	sonstig	Umweltbestätigung

Further information

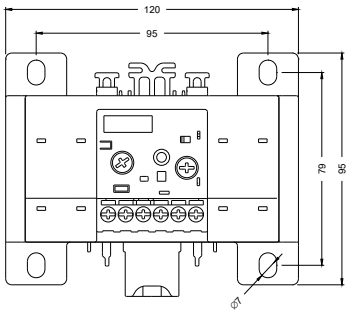
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

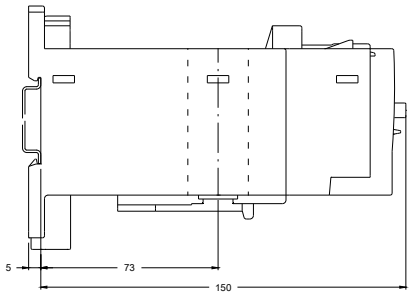
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB21534FW2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RB21534FW2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB21534FW2&lang=en





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