



OVERLOAD RELAY 12.5...50 A FOR MOTOR PROTECTION SIZE S2, CLASS 5...30 FOR MOUNTING ONTO CONT. MAIN CIRCUIT: SCREW CONNECTION 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	S2
Active power loss total typical	0.05 W
Insulation voltage	
• with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 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	12.5 ... 50 A
Operating voltage	690 V
<ul style="list-style-type: none"> • at AC-3 Rated value maximum 	

Auxiliary circuit:

Number of NC contacts	1
<ul style="list-style-type: none"> • for auxiliary contacts 	
Number of NO contacts	1
<ul style="list-style-type: none"> • for auxiliary contacts 	
Number of CO contacts	0
<ul style="list-style-type: none"> • for auxiliary contacts 	
Operating current of the auxiliary contacts at AC-15	4 A 4 A 4 A 4 A 3 A
<ul style="list-style-type: none"> • at 24 V 	
<ul style="list-style-type: none"> • at 110 V 	
<ul style="list-style-type: none"> • at 120 V 	
<ul style="list-style-type: none"> • at 125 V 	
<ul style="list-style-type: none"> • at 230 V 	
Operating current of the auxiliary contacts at DC-13	2 A 0.55 A 0.3 A 0.3 A 0.11 A
<ul style="list-style-type: none"> • at 24 V 	
<ul style="list-style-type: none"> • at 60 V 	
<ul style="list-style-type: none"> • at 110 V 	
<ul style="list-style-type: none"> • at 125 V 	
<ul style="list-style-type: none"> • at 220 V 	

Protective and monitoring functions:

Trip class	CLASS 5, 10, 20 and 30 adjustable
-------------------	-----------------------------------

Short-circuit:

Design of the fuse link	fuse gL/gG: 6 A
<ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required 	

Installation/ mounting/ dimensions:

mounting position	any	
Mounting type	direct mounting	
Height	92 mm	
Width	55 mm	
Depth	109 mm	
Required spacing		
<ul style="list-style-type: none"> • with side-by-side mounting 		
<ul style="list-style-type: none"> — forwards 		0 mm
<ul style="list-style-type: none"> — Backwards 		0 mm
<ul style="list-style-type: none"> — 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	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-section	
• for main contacts	
— solid	2x (1 ... 16 mm ²)
— stranded	2x (max. 25 mm ²), 1 ... 35 mm ²
— finely stranded with core end processing	2x (1 ... 16 mm ²), 1 ... 25 mm ²
• for AWG conductors for main contacts	2 x (max. 4), 1 x (18 ... 2)
Type of connectable conductor cross-section	
• for auxiliary contacts	
— solid	0.5 ... 4 mm ² , 2x (0.5 ... 2.5 mm ²)
— finely stranded with core end processing	0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²)
• for AWG conductors for auxiliary contacts	2x (20 ... 14)

Mechanical data:

Size of overload relay	S2
-------------------------------	----

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.

[Typprüfbescheinigung/Werkszeugnis](#)

[spezielle Prüfbescheinigungen](#)



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

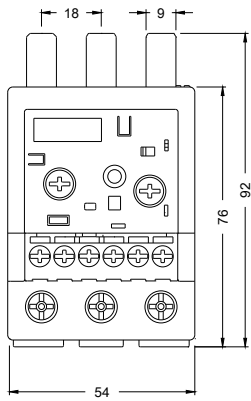
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB21334UB0>

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

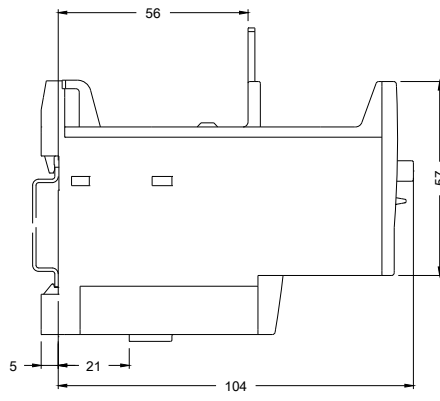
<https://support.industry.siemens.com/cs/ww/en/ps/3RB21334UB0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB21334UB0&lang=en



last modified:



29.06.2015