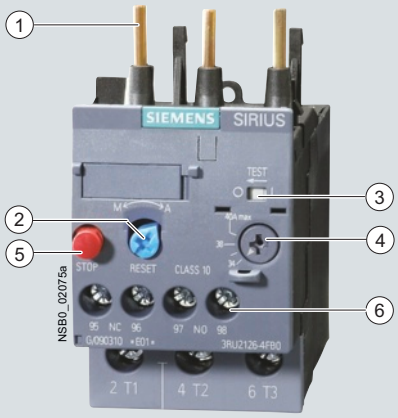
Overview



(1) Connection for mounting onto contactors:
Optimally adapted in electrical, mechanical and design terms to the contactors. The overload relay can be connected directly to these contactor using these pins. Stand-alone installation is possible as an alternative (in conjunction with a terminal bracket for stand-alone installation).

(2) Selector switch for manual/automatic RESET and RESET button:
With this switch you can choose between manual and automatic RESET. A device set to manual RESET can be reset locally by pressing the RESET button. A remote RESET is possible using the RESET modules (accessories), which are independent of size.

(3) Switch position indicator and TEST function of the wiring:
Indicates a trip and enables the wiring test.

(4) Motor current setting:
Setting the device to the rated motor current is easy with the large rotary knob.

(5) STOP button:
If the STOP button is pressed, the NC contact is opened. This switches off the contactor downstream. The NC contact is closed again when the button is released.

(6) Supply terminals:
Depending on the device version, the terminals for screw, spring-type or ring lug terminal connection are configured for the main and auxiliary circuit.

A sealable transparent cover can be optionally mounted (accessory). It secures the motor current setting against adjustment.

3RU21 26-4FB00 thermal overload relays

The 3RU21 thermal overload relays up to 40 A have been designed for current-dependent protection of loads with normal starting (for "Function" see note on Technical Information on page 5/1) against excessive temperature rises due to overload or phase failure.

An overload or phase failure results in an increase of the motor current beyond the set rated motor current. Via heating elements, this current rise heats up the bimetal strips inside the device which then bend and as a result trigger the auxiliary contacts by means of a tripping mechanism. The auxiliary contacts then switch off the load by means of a contactor. The switch-off time depends on the ratio between the tripping current and set current I_e and is stored in the form of a long-term stable tripping characteristic (for "Characteristic Curves" see the note on Technical Information on page 5/1).

The "tripped" status is signaled by means of a switch position indicator. Resetting takes place either manually or automatically after a recovery time has elapsed (for "Function" see note on Technical Information on page 5/1).

The devices are manufactured in accordance with environmental guidelines and contain environmentally friendly and reusable materials.

They comply with all important worldwide standards and approvals.

"Increased safety" type of protection EEx e according to ATEX directive 94/9/EC

The 3RU21 thermal overload relays are suitable for the overload protection of explosion-proof motors with "increased safety" type of protection EEx e. The relays meet the requirements of EN 60079-7 (Electrical apparatus for areas subject to explosion hazards – Increased safety "e"); see Chapter 9 "Appendix" --> "Standards and approvals" --> "Type overview of approved devices for explosion-protected areas (ATEX Explosion Protection)".

EC type test certificate for Category (2) G/D has been submitted. More details on request.

Benefits

The most important features and benefits of the 3RU21 thermal overload relays are listed in the overview table (see "General data" on page 5/34).

General data

Application

Industries

The 3RU21 thermal overload relays are suitable for customers from all industries who want to guarantee optimum current-dependent protection of their electrical loads (e. g. motors) under normal starting conditions (CLASS 10).

Application

The 3RU21 thermal overload relays have been designed for the protection of three-phase and single-phase AC and DC motors.

If single-phase AC or DC loads are to be protected by the 3RU21 thermal overload relays, all three bimetal strips must be heated. For this purpose, all main current paths of the relay must be connected in series.

Ambient conditions

The 3RU21 thermal overload relays have temperature compensation in accordance with IEC 60947-4-1 for the temperature range of -40 to +60 °C. For temperatures from +60 to +80 °C the upper set value of the setting range must be reduced by the factor listed in the table below.

Ambient temperature	Derating factor for the upper set value	
	Current ranges	
°C	0.11 ... 20 A	17 ... 40 A
+60	1.0	1.0
+65	0.94	0.97
+70	0.87	0.94
+75	0.81	0.90
+80	0.73	0.86

Accessories

The following optional accessories are available for the 3RU21 thermal overload relays:

- Terminal bracket for stand-alone installation with screw or spring-type terminals for each size
- Mechanical RESET for all sizes
- Cable release for resetting devices which are difficult to access for all sizes
- Electrical remote RESET module in three voltage variants for all sizes
- Sealable cover for all sizes
- Terminal covers for devices with ring lug terminal connection

More information

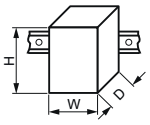
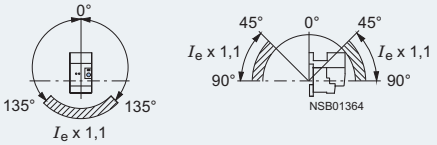
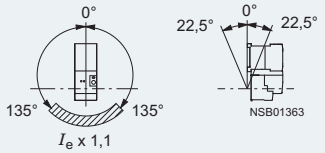
Order No. scheme

Digit of the Order No.	1st - 3rd	4th	5th	6th	7th		8th	9th	10th	11th
	□□□	□	□	□	□	–	□	□	□	□
Thermal overload relays	**3 R U**									
SIRIUS 2nd generation		**2**								
Device series			□							
Size, rated operational current and power				□	□					
Setting range of the overload release							□	□		
Connection method									□	
Installation type										□
Example	**3 R U**	**2**	**1**	**1**	**6**	**–**	**0**	**A**	**B**	**0**

Note:

The Order No. scheme is presented here merely for information purposes and for better understanding of the logic behind the order numbers.

For your orders, please use the order numbers quote in the catalog under the Selection and ordering data section.

Type			**3RU21 16**	**3RU21 26**
Size			S00	S0
Dimensions (W x H x D) (overload relay with stand-alone installation support)				
• Screw terminals		mm	45 x 89 x 79	45 x 97 x 95
• Spring-type terminals		mm	45 x 102 x 80	45 x 114 x 97
General technical specifications				
Trips in the event of			Overload and phase failure	
Trip class acc. to IEC 60947-4-1		CLASS	10	
Phase failure sensitivity			Yes	
Overload warning			No	
Reset and recovery				
• Reset options after tripping			Manual, automatic and remote RESET[1]	
• Recovery time				
- For automatic RESET		min	Depends on the strength of the tripping current and characteristic	
- For manual RESET		min	Depends on the strength of the tripping current and characteristic	
- For remote RESET		min	Depends on the strength of the tripping current and characteristic	
Features				
• Display of operating state on device			Yes, by means of TEST function/switch position indicator slide	
• TEST function			Yes	
• RESET button			Yes	
• STOP button			Yes	
Safe operation of motors with "increased safety" type of protection				
EC type test certificate number acc. to directive 94/9/EC (ATEX)			On request	
Ambient temperature				
• Storage/transport		°C	-55 ... +80	
• Operation		°C	-40 ... +70	
• Temperature compensation		°C	Up to 60	
• Permissible rated current at				
- Temperature inside control cabinet 60 °C		%	100 (over +60 °C current reduction is not required)	
- Temperature inside control cabinet 70 °C		%	87	
Repeat terminals				
• Coil repeat terminals			Yes	Not required
• Auxiliary contact repeat terminal			Yes	Not required
Degree of protection acc. to IEC 60529			IP20	
Touch protection acc. to IEC 61140			Screw and spring-type terminals: Finger-safe Ring lug terminal connection: Finger-safe only with optional terminal covers	
Shock resistance with sine acc. to IEC 60068-2-27		*g*/ms	15/11[2]	
Electromagnetic compatibility (EMC) – Interference immunity				
• Conductor-related interference				
- Burst acc. to IEC 61000-4-4 (corresponds to degree of severity 3)		kV	EMC interference immunity is not relevant for thermal overload relays	
- Surge acc.to IEC 61000-4-5 (corresponds to degree of severity 3)		kV	EMC interference immunity is not relevant for thermal overload relays	
• Electrostatic discharge acc. to IEC 61000-4-2 (corresponds to degree of severity 3)		kV	EMC interference immunity is not relevant for thermal overload relays	
• Field-related interference acc. to IEC 61000-4-3 (corresponds to degree of severity 3)		V/m	EMC interference immunity is not relevant for thermal overload relays	
Electromagnetic compatibility (EMC) – Emitted interference			EMC interference immunity is not relevant for thermal overload relays	
Resistance to extreme climates – Air humidity		%	90	
Dimensions			For "Dimensional drawings" see the note on Technical Information on page 5/1.	
Installation altitude above sea level		m	Up to 2000; above this, please enquire	
Mounting position			The diagrams show the permissible mounting positions for mounting onto contactors and stand-alone installation. For installation in the shaded area, a setting correction of 10 % must be implemented. Stand-alone installation:  Contactor + overload relay:  	
Type of mounting			Mounting onto contactor/stand-alone installation with terminal bracket[3]	

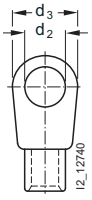
[1] Remote RESET in combination with the appropriate accessories.

[2] Auxiliary contacts 95/96 and 97/98: 8 *g*/11 ms.

[3] For screw and snap-on mounting on TH 35 standard mounting rail. For the technical specifications of the terminal brackets see the note on Technical Information on page 5/1.

General data

Type		3RU21 16	3RU21 26
Size		S00	S0
Width		45 mm	45 mm
Main circuit			
Rated insulation voltage U_i (pollution degree 3)	V	690	
Rated impulse withstand voltage U_{imp}	kV	6	
Rated operational voltage U_e	V	690	
Type of current			
• Direct current		Yes	
• Alternating current		Yes, frequency range up to 400 Hz	
Current setting	A A	0.11 ... 0.16 to 11 ... 16	1.8 ... 2.5 to 34 ... 40
Power loss per unit (max.)	W	3.9 ... 6.6	3.9 ... 6
Short-circuit protection			
• With fuse without contactor		See "Selection and ordering data"	
• With fuse and contactor		See "Technical specifications" --> "Short-circuit protection with fuses/motor starter protectors for motor starters", see note on Technical Information on page 5/1.	
Protective separation between main and auxiliary conducting path acc. to IEC 60947-1	V	≥ 440	
Conductor cross-sections of main circuit			
Connection type screw terminals		**Screw terminals**	
Terminal screw		M3, Pozidriv size 2	M4, Pozidriv size 2
Operating devices	mm	⌀ 5 ... 6	⌀ 5 ... 6
Prescribed tightening torque	Nm	0.8 ... 1.2	2 ... 2.5
Conductor cross-sections (min./max.), 1 or 2 conductors can be connected			
• Solid	mm^2	2 x (0.5 ... 1.5)[1], 2 x (0.75 ... 2.5)[1], 2 x (0.5 ... 4)[1]	2 x (1 ... 2.5)[1], 2 x (2.5 ... 10)[1]
• Finely stranded with end sleeves (DIN 46228 T1)	mm^2	2 x (0.5 ... 1.5)[1] 2 x (0.75 ... 2.5)[1]	2 x (1 ... 2.5)[1], 2 x (2.5 ... 6)[1]; max. 1 x 10
• AWG cables, solid or stranded	AWG	2 x (20 ... 16)[1], 2 x (18 ... 14)[1], 2 x 12	2 x (16 ... 12)[1], 2 x (14 ... 8)[1]
Connection type spring-type terminals		**Spring-type terminals**	
Operating devices	mm	3.0 x 0.5 and 3.5 x 0.5	
Conductor cross-sections (min./max.)			
• Solid	mm^2	1 x (0.5 ... 4)	1 x (1 ... 10)
• Finely stranded without end sleeve	mm^2	1 x (0.5 ... 2.5)	1 x (1 ... 6)
• Finely stranded with end sleeves (DIN 46228 T1)	mm^2	1 x (0.5 ... 2.5)	1 x (1 ... 6)
• AWG cables, solid or stranded	AWG	1 x (20 ... 12)	1 x (18 ... 8)
Connection type ring lug terminals		**Ring lug terminal connection**	
Terminal screw		M3, Pozidriv size 2	M4, Pozidriv size 2
Operating devices	mm	⌀ 5 ... 6	⌀ 5 ... 6
Prescribed tightening torque	Nm	0.8 ... 1.2	2 ... 2.5
Usable ring lug terminals	mm	d_2 = min. 3.2, d_3 = max. 7.5	d_2 = min. 4.3, d_3 = max. 12.2
• DIN 46234 without insulation sleeve			
• DIN 46225 without insulation sleeve			
• DIN 46237 with insulation sleeve			
• JIS C2805 Type R without insulation sleeve			
• JIS C2805 Type RAV with insulation sleeve			
• JIS C2805 Type RAP with insulation sleeve			



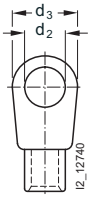
[1] If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified. If identical cross-sections are used, this restriction does not apply.

Type		3RU21 16	3RU21 26
Size		S00	S0
Width		45 mm	45 mm
Auxiliary circuit			
Number of NO contacts		1	
Number of NC contacts		1	
Auxiliary contacts – Assignment		1 NO for the signal "tripped", 1 NC for disconnecting the contactor	
Rated insulation voltage U_i (pollution degree 3)	V	690	
Rated impulse withstand voltage U_{imp}	kV	6	
Contact rating of the auxiliary contacts			
• NC contact with alternating current AC-14/AC-15, rated operational current I_e at U_e:			
- 24 V	A	4	
- 120 V	A	4	
- 125 V	A	4	
- 230 V	A	3	
- 400 V	A	2	
- 600 V	A	0.75	
- 690 V	A	0.75	
• NO contact with alternating current AC-14/AC-15, rated operational current I_e at U_e:			
- 24 V	A	3	
- 120 V	A	3	
- 125 V	A	3	
- 230 V	A	2	
- 400 V	A	1	
- 600 V	A	0.75	
- 690 V	A	0.75	
• NC contact, NO contact with direct current DC-13, rated operational current I_e at U_e:			
- 24 V	A	1	
- 60 V	A	On request	
- 110 V	A	0.22	
- 125 V	A	0.22	
- 220 V	A	0.11	
• Conventional thermal current I_{th}	A	6	
• Contact reliability (suitability for PLC control; 17 V, 5 mA)		Yes	
Short-circuit protection			
• With fuse			
- Operational class gG	A	6	
- Quick	A	10	
• With miniature circuit breaker (C characteristic)	A	6[1)]	
Protective separation between main and auxiliary conducting path acc. to IEC 60947-1	V	≥ 440	
CSA, UL, UR rated data			
Auxiliary circuit – Switching capacity		B600, R300	

1) Up to $I_k \leq 0.5$ kA; ≤ 260 V.

General data

Type		3RU21 16	3RU21 26
Size		S00	S0
Width		45 mm	45 mm
Conductor cross-sections for auxiliary circuit			
Connection type screw terminals		**Screw terminals**	
Terminal screw		M3, Pozidriv size 2	
Operating devices	mm	⌀ 5 ... 6	
Prescribed tightening torque	Nm	0.8 ... 1.2	
Conductor cross-sections (min./max.), 1 or 2 conductors can be connected			
• Solid	mm^2	2 x (0.5 ... 1.5)[1], 2 x (0.75 ... 2.5)[1]	
• Finely stranded with end sleeves (DIN 46228 T1)	mm^2	2 x (0.5 ... 1.5)[1], 2 x (0.75 ... 2.5)[1]	
• AWG cables, solid or stranded	AWG	2 x (20 ... 16)[1], 2 x (18 ... 14)[1]	
Connection type spring-type terminals		**Spring-type terminals**	
Operating devices	mm	3.0 x 0.5 and 3.5 x 0.5	
Conductor cross-sections (min./max.)			
• Solid	mm^2	2 x (0.5 ... 2.5)	
• Finely stranded without end sleeve	mm^2	2 x (0.5 ... 1.5)	
• Finely stranded with end sleeves (DIN 46228 T1)	mm^2	2 x (0.5 ... 1.5)	
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)	
Connection type ring terminal end		**Ring lug terminal connection**	
Terminal screw		M3, Pozidriv size 2	
Operating devices	mm	⌀ 5 ... 6	
Prescribed tightening torque	Nm	0.8 ... 1.2	
Usable ring lug terminals	mm	d_2 = min. 3.2, d_3 = max. 7.5	
• DIN 46234 without insulation sleeve			
• DIN 46225 without insulation sleeve			
• DIN 46237 with insulation sleeve			
• JIS C2805 Type R without insulation sleeve			
• JIS C2805 Type RAV with insulation sleeve			
• JIS C2805 Type RAP with insulation sleeve			



[1] If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified. If identical cross-sections are used, this restriction does not apply.

Selection and ordering data

3RU21 thermal overload relays for mounting onto contactor[1], CLASS 10

Features and technical specifications:
- Screw, spring-type or ring lug terminal connection[2]
- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicators
- TEST function
- STOP button
- Sealable covers (optional accessory)
- Terminal covers for devices with ring lug terminal connection (optional accessory)


3RU21 16-4AB0


3RU21 16-4AC0


3RU21 26-4FB0


3RU21 26-4AC0

Size contactor[3]	Current setting value of the current-dependent overload release	Screw terminals	Weight approx.	Spring-type terminals	Weight approx.
		Order No.		Order No.	
	A		kg		kg
Size S00					
S00	0.11 ... 0.16	**3RU21 16-0AB0**	0.130	**3RU21 16-0AC0**	0.150
	0.14 ... 0.2	**3RU21 16-0BB0**	0.130	**3RU21 16-0BC0**	0.150
	0.18 ... 0.25	**3RU21 16-0CB0**	0.130	**3RU21 16-0CC0**	0.150
	0.22 ... 0.32	**3RU21 16-0DB0**	0.130	**3RU21 16-0DC0**	0.150
	0.28 ... 0.4	**3RU21 16-0EB0**	0.130	**3RU21 16-0EC0**	0.150
	0.35 ... 0.5	**3RU21 16-0FB0**	0.130	**3RU21 16-0FC0**	0.150
	0.45 ... 0.63	**3RU21 16-0GB0**	0.130	**3RU21 16-0GC0**	0.150
	0.55 ... 0.8	**3RU21 16-0HB0**	0.130	**3RU21 16-0HC0**	0.150
	0.7 ... 1	**3RU21 16-0JB0**	0.130	**3RU21 16-0JC0**	0.150
	0.9 ... 1.25	**3RU21 16-0KB0**	0.130	**3RU21 16-0KC0**	0.150
	1.1 ... 1.6	**3RU21 16-1AB0**	0.130	**3RU21 16-1AC0**	0.150
	1.4 ... 2	**3RU21 16-1BB0**	0.130	**3RU21 16-1BC0**	0.150
	1.8 ... 2.5	**3RU21 16-1CB0**	0.130	**3RU21 16-1CC0**	0.150
	2.2 ... 3.2	**3RU21 16-1DB0**	0.130	**3RU21 16-1DC0**	0.150
	2.8 ... 4	**3RU21 16-1EB0**	0.130	**3RU21 16-1EC0**	0.150
	3.5 ... 5	**3RU21 16-1FB0**	0.130	**3RU21 16-1FC0**	0.150
	4.5 ... 6.3	**3RU21 16-1GB0**	0.130	**3RU21 16-1GC0**	0.150
	5.5 ... 8	**3RU21 16-1HB0**	0.130	**3RU21 16-1HC0**	0.150
	7 ... 10	**3RU21 16-1JB0**	0.130	**3RU21 16-1JC0**	0.150
	9 ... 12.5	**3RU21 16-1KB0**	0.130	**3RU21 16-1KC0**	0.150
	11 ... 16	**3RU21 16-4AB0**	0.130	**3RU21 16-4AC0**	0.150
Size S0					
S0	1.8 ... 2.5	**3RU21 26-1CB0**	0.160	**3RU21 26-1CC0**	0.220
	2.2 ... 3.2	**3RU21 26-1DB0**	0.160	**3RU21 26-1DC0**	0.220
	2.8 ... 4	**3RU21 26-1EB0**	0.160	**3RU21 26-1EC0**	0.220
	3.5 ... 5	**3RU21 26-1FB0**	0.160	**3RU21 26-1FC0**	0.220
	4.5 ... 6.3	**3RU21 26-1GB0**	0.160	**3RU21 26-1GC0**	0.220
	5.5 ... 8	**3RU21 26-1HB0**	0.160	**3RU21 26-1HC0**	0.220
	7 ... 10	**3RU21 26-1JB0**	0.160	**3RU21 26-1JC0**	0.220
	9 ... 12.5	**3RU21 26-1KB0**	0.160	**3RU21 26-1KC0**	0.220
	11 ... 16	**3RU21 26-4AB0**	0.160	**3RU21 26-4AC0**	0.220
	14 ... 20	**3RU21 26-4BB0**	0.160	**3RU21 26-4BC0**	0.220
	17 ... 22	**3RU21 26-4CB0**	0.160	**3RU21 26-4CC0**	0.220
	20 ... 25	**3RU21 26-4DB0**	0.160	**3RU21 26-4DC0**	0.220
	23 ... 28	**3RU21 26-4NB0**	0.160	**3RU21 26-4NC0**	0.220
	27 ... 32	**3RU21 26-4EB0**	0.160	**3RU21 26-4EC0**	0.220
	30 ... 36	**3RU21 26-4PB0**	0.160	**3RU21 26-4PC0**	0.220
	34 ... 40	**3RU21 26-4FB0**	0.160	**3RU21 26-4FC0**	0.220

1) For matching terminal brackets see "Accessories" on page 5/45.

2) The 3RU21 overload relays are also available with ring lug terminal connection. The Order No. must be changed in the 10th position to **"J"**: e. g. 3RU21 16-0A**J**0.

3) Observe maximum rated operational current of the devices.

SIRIUS 3RU2 Thermal Overload Relays

3RU2 up to 40 A for standard applications

3RU21 thermal overload relays for stand-alone installation[1], CLASS 10

Features and technical specifications:
- Screw or spring-type terminals
- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicators
- TEST function
- STOP button
- Sealable covers (optional accessory)


3RU21 16-4AB1


3RU21 16-4AC1


3RU21 26-4FB1


3RU21 26-4FC1

Size contactor[2]	Current setting value of the current-dependent overload release	Screw terminals Order No.	Weight approx.	Spring-type terminals Order No.	Weight approx.
	A		kg		kg
Size S00					
S00	0.11 ... 0.16	**3RU21 16-0AB1**	0.170	**3RU21 16-0AC1**	0.190
	0.14 ... 0.2	**3RU21 16-0BB1**	0.170	**3RU21 16-0BC1**	0.190
	0.18 ... 0.25	**3RU21 16-0CB1**	0.170	**3RU21 16-0CC1**	0.190
	0.22 ... 0.32	**3RU21 16-0DB1**	0.170	**3RU21 16-0DC1**	0.190
	0.28 ... 0.4	**3RU21 16-0EB1**	0.170	**3RU21 16-0EC1**	0.190
	0.35 ... 0.5	**3RU21 16-0FB1**	0.170	**3RU21 16-0FC1**	0.190
	0.45 ... 0.63	**3RU21 16-0GB1**	0.170	**3RU21 16-0GC1**	0.190
	0.55 ... 0.8	**3RU21 16-0HB1**	0.170	**3RU21 16-0HC1**	0.190
	0.7 ... 1	**3RU21 16-0JB1**	0.170	**3RU21 16-0JC1**	0.190
	0.9 ... 1.25	**3RU21 16-0KB1**	0.170	**3RU21 16-0KC1**	0.190
	1.1 ... 1.6	**3RU21 16-1AB1**	0.170	**3RU21 16-1AC1**	0.190
	1.4 ... 2	**3RU21 16-1BB1**	0.170	**3RU21 16-1BC1**	0.190
	1.8 ... 2.5	**3RU21 16-1CB1**	0.170	**3RU21 16-1CC1**	0.190
	2.2 ... 3.2	**3RU21 16-1DB1**	0.170	**3RU21 16-1DC1**	0.190
	2.8 ... 4	**3RU21 16-1EB1**	0.170	**3RU21 16-1EC1**	0.190
	3.5 ... 5	**3RU21 16-1FB1**	0.170	**3RU21 16-1FC1**	0.190
	4.5 ... 6.3	**3RU21 16-1GB1**	0.170	**3RU21 16-1GC1**	0.190
	5.5 ... 8	**3RU21 16-1HB1**	0.170	**3RU21 16-1HC1**	0.190
	7 ... 10	**3RU21 16-1JB1**	0.170	**3RU21 16-1JC1**	0.190
	9 ... 12.5	**3RU21 16-1KB1**	0.170	**3RU21 16-1KC1**	0.190
	11 ... 16	**3RU21 16-4AB1**	0.170	**3RU21 16-4AC1**	0.280
Size S0					
S0	14 ... 20	**3RU21 26-4BB1**	0.200	**3RU21 26-4BC1**	0.280
	17 ... 22	**3RU21 26-4CB1**	0.200	**3RU21 26-4CC1**	0.280
	20 ... 25	**3RU21 26-4DB1**	0.200	**3RU21 26-4DC1**	0.280
	23 ... 28	**3RU21 26-4NB1**	0.200	**3RU21 26-4NC1**	0.280
	27 ... 32	**3RU21 26-4EB1**	0.200	**3RU21 26-4EC1**	0.280
	30 ... 36	**3RU21 26-4PB1**	0.200	**3RU21 26-4PC1**	0.280
	34 ... 40	**3RU21 26-4FB1**	0.200	**3RU21 26-4FC1**	0.280

[1] Screw and snap-on mounting onto TH 35 standard mounting rail

[2] Observe maximum rated operational current of the devices.

Illustrations are approximate

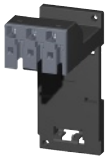
Overview

Overload relays for standard applications

The following optional accessories are available for the 3RU21 thermal overload relays:

- Terminal bracket for stand-alone installation with screw or spring-type terminals for each size
- Mechanical RESET for all sizes
- Cable release for resetting devices which are difficult to access for all sizes
- Electrical remote RESET module in three voltage variants for all sizes
- Sealable cover for all sizes
- Terminal covers for devices with ring lug terminal connection

Selection and ordering data

	Version	Size	Order No.	Weight approx. kg
Terminal brackets for stand-alone installation[1]				
 3RU29 16-3AA01	**Terminal brackets for overload relays with screw terminals**		**Screw terminals**	
 3RU29 26-3AA01	For separate mounting of the overload relays; screw and snap-on mounting onto TH 35 standard mounting rail	S00 S0	**3RU29 16-3AA01** **3RU29 26-3AA01**	0.040 0.050
 3RU29 16-3AC01	**Terminal brackets for overload relays with spring-type terminals**		**Spring-type terminals**	
 3RU29 26-3AC01	For separate mounting of the overload relays; screw and snap-on mounting onto TH 35 standard mounting rail	S00 S0	**3RU29 16-3AC01** **3RU29 26-3AC01**	0.040 0.060
Mechanical RESET				
 3RU29 00-1A with pushbutton and extension plunger	**Resetting plungers, holders and formers**	S00, S0	**3RU29 00-1A**	0.038
	Pushbuttons with extended stroke (12 mm), IP65, ⌀ 22 mm	S00, S0	**3SB30 00-0EA11**	0.020
	Extension plungers For compensation of the distance between the pushbutton and the unlatching button of the relay	S00, S0	**3SX1 335**	0.004
Cable releases with holder for RESET				
 3RU29 00-1.	For ⌀ 6.5 mm hole in the control panel; max. control panel thickness 8 mm			
	• Length 400 mm	S00, S0	**3RU29 00-1B**	0.063
	• Length 600 mm	S00, S0	**3RU29 00-1C**	0.073

[1] The accessories are identical to those of the 3RB30/3RB31 solid-state overload relays.

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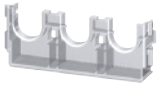
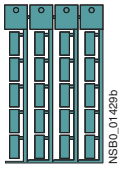
Accessories

	Version	Size	Order No.	PU (UNIT, SET, M)	PS*	Weight approx.
Modules for remote RESET, electrical						
 3RU19 00-2A.71	Operating range 0.85 ... 1.1 x U_s, power consumption AC 80 VA, DC 70 W, ON period 0.2 ... 4 s, switching frequency 60/h					
	• 24 ... 30 V AC/DC	S00, S0	**3RU19 00-2AB71**			0.066
	• 110 ... 127 V AC/DC	S00, S0	**3RU19 00-2AF71**			0.067
	• 220 ... 250 V AC/DC	S00, S0	**3RU19 00-2AM71**			0.066
Sealable covers						
 3RV29 08-0P	For covering the setting knobs	S00, S0	**3RV29 08-0P**	1	10 units	0.100
Terminal covers						
 3RU29 16-3BJ21	**Covers for devices with ring lug terminal connection** (ensure finger-safety)		**Ring lug terminal connection**			
	• Main current level					
 3RU29 26-3BJ21	- Cover between contactor and overload relay for direct mounting of the overload relay	S00 S0	**3RU29 16-3BJ21** **3RU29 26-3BJ21**	1 1	10 units 10 units	0.001 0.001
 3RU29 16-3BJ20	- Cover for overload relay on load side	S00 S0	**3RU29 16-3BJ20** **3RV29 28-4AA00**	1 1	10 units 1 unit	0.001 0.010
 3RV29 28-4AA00	• Auxiliary current level	S00, S0	**3RT29 16-4EA13**	1	10 units	0.001
 3RT29 16-4EA13						

General accessories

	Version	Use	Order No.	PU (UNIT, SET, M)	PS*	Weight approx. kg
Tools for opening spring-type terminals						
 3RA29 08-1A	**Screwdrivers** for all SIRIUS devices with spring-type terminals		**Spring-type terminals**			
	Length approx. 200 mm, 3.0 mm x 0.5 mm, titanium gray/black, partially insulated	Main and auxiliary circuit connection: 3RU2, 3RB3	**3RA29 08-1A**	1	1 unit	0.045
Blank labels						
 3RT19 00-1SB20	**Unit labeling plates**[1] for SIRIUS devices 20 mm x 7 mm, pastel turquoise	3RU2, 3RB3	**3RT19 00-1SB20**	100	340 units	0.200

[1] PC labeling system for individual inscription of unit labeling plates available from: murrplastik Systems, Inc. www.murrplastik.com .

* You can order this quantity or a multiple thereof.
Illustrations are approximate