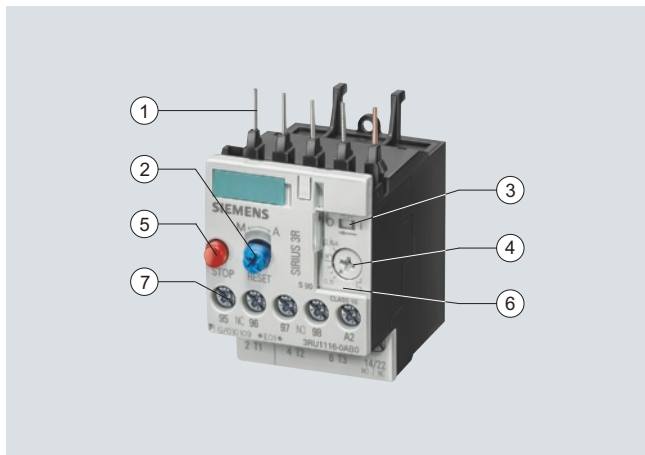


# Overload Relays

## SIRIUS 3RU1 Thermal Overload Relays

### 3RU11 for standard applications

#### Overview



- ① Connection for mounting onto contactors:  
Optimally adapted in electrical, mechanical and design terms to the contactors. Connecting pins can be used for direct mounting of the overload relays. Stand-alone installation is possible as an alternative (in some cases in conjunction with a stand-alone installation module).
- 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 Transparent, sealable cover:  
Secures the motor current setting and the TEST function against adjustment.
- ⑦ Supply terminals:  
The generously sized terminals permit connection of two conductors with different cross-sections for the main and auxiliary circuits. The auxiliary circuit can be connected with screw terminals and alternatively with spring-type terminals.

The 3RU11 thermal overload relays up to 100 A have been designed for inverse-time delayed 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 break time depends on the ratio between the tripping current and set current  $I_a$  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 3RU11 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 [Catalog IC 10](#).

EC type test certificate for Category (2) G/D exists. It has the number DMT 98 ATEX G 001.

#### Benefits

The most important features and benefits of the 3RU11 thermal overload relays are listed in the overview table (see ["General Data" on page 5/42](#)).

#### Application

##### Industries

The 3RU11 thermal overload relays are suitable for customers from all industries who want to guarantee optimum inverse-time delayed protection of their electrical loads (e. g. motors) under normal starting conditions (CLASS 10).

##### Application

The 3RU11 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 3RU11 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 3RU11 thermal overload relays have temperature compensation in accordance with IEC 60947-4-1 for the temperature range of  $-20\text{ °C}$  to  $+60\text{ °C}$ . For temperatures from  $+60\text{ °C}$  to  $+80\text{ °C}$  the upper set value of the setting range must be reduced by the factor listed in the table below.

Ambient temperature in °C	Derating factor for the upper set value
+60	1.0
+65	0.94
+70	0.87
+75	0.81
+80	0.73

#### Accessories

The following optional accessories are available for the 3RU11 thermal overload relays:

- For the four overload relay sizes S00 to S3 one terminal bracket each for stand-alone installation
- One mechanical RESET module for all sizes
- One cable release for resetting devices which are difficult to access (for all sizes)
- One electrical remote RESET module in three voltage variants for all sizes
- Terminal covers

# Overload Relays

## SIRIUS 3RU1 Thermal Overload Relays





3RU11 for standard applications

### Selection and ordering data

3RU11 thermal overload relays with screw terminals on the auxiliary current side for direct mounting<sup>1)</sup>, CLASS 10

Features and technical specifications:

- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicator
- TEST function
- STOP button
- Integrated, sealable cover

Size of con- tactor <sup>2)</sup>	Rating for induction motor rated value <sup>3)</sup>	Current setting of the inverse-time delayed overload release	Short-circuit protection with fuse, type of coordi- nation 2, gL/gG opera- tional class <sup>4)</sup>	DT	Screw terminals (on auxiliary current side)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
										Order No.
kW		A	A							
<b>Size S00</b>										
	S00	0.04	0.11 ... 0.16	0.5	▶	<b>3RU11 16-0AB0</b>	1	1 unit	101	0.150
		0.06	0.14 ... 0.2	1	▶	<b>3RU11 16-0BB0</b>	1	1 unit	101	0.150
		0.06	0.18 ... 0.25	1	▶	<b>3RU11 16-0CB0</b>	1	1 unit	101	0.150
		0.09	0.22 ... 0.32	1.6	▶	<b>3RU11 16-0DB0</b>	1	1 unit	101	0.150
	0.09	0.28 ... 0.4	2	▶	<b>3RU11 16-0EB0</b>	1	1 unit	101	0.150	
	0.12	0.35 ... 0.5	2	▶	<b>3RU11 16-0FB0</b>	1	1 unit	101	0.150	
	0.18	0.45 ... 0.63	2	▶	<b>3RU11 16-0GB0</b>	1	1 unit	101	0.150	
	0.18	0.55 ... 0.8	4	▶	<b>3RU11 16-0HB0</b>	1	1 unit	101	0.150	
	0.25	0.7 ... 1	4	▶	<b>3RU11 16-0JB0</b>	1	1 unit	101	0.150	
	0.37	0.9 ... 1.25	4	▶	<b>3RU11 16-0KB0</b>	1	1 unit	101	0.150	
	0.55	1.1 ... 1.6	6	▶	<b>3RU11 16-1AB0</b>	1	1 unit	101	0.150	
	0.75	1.4 ... 2	6	▶	<b>3RU11 16-1BB0</b>	1	1 unit	101	0.150	
	0.75	1.8 ... 2.5	10	▶	<b>3RU11 16-1CB0</b>	1	1 unit	101	0.150	
	1.1	2.2 ... 3.2	10	▶	<b>3RU11 16-1DB0</b>	1	1 unit	101	0.150	
	1.5	2.8 ... 4	16	▶	<b>3RU11 16-1EB0</b>	1	1 unit	101	0.150	
	1.5	3.5 ... 5	20	▶	<b>3RU11 16-1FB0</b>	1	1 unit	101	0.150	
	2.2	4.5 ... 6.3	20	▶	<b>3RU11 16-1GB0</b>	1	1 unit	101	0.150	
	3	5.5 ... 8	25	▶	<b>3RU11 16-1HB0</b>	1	1 unit	101	0.150	
4	7 ... 10	35	▶	<b>3RU11 16-1JB0</b>	1	1 unit	101	0.150		
5.5	9 ... 12	35	▶	<b>3RU11 16-1KB0</b>	1	1 unit	101	0.150		
<b>Size S0</b>										
	S0	0.75	1.8 ... 2.5	10	▶	<b>3RU11 26-1CB0</b>	1	1 unit	101	0.190
		1.1	2.2 ... 3.2	10	▶	<b>3RU11 26-1DB0</b>	1	1 unit	101	0.190
		1.5	2.8 ... 4	16	▶	<b>3RU11 26-1EB0</b>	1	1 unit	101	0.190
		1.5	3.5 ... 5	20	▶	<b>3RU11 26-1FB0</b>	1	1 unit	101	0.190
	2.2	4.5 ... 6.3	20	▶	<b>3RU11 26-1GB0</b>	1	1 unit	101	0.190	
	3	5.5 ... 8	25	▶	<b>3RU11 26-1HB0</b>	1	1 unit	101	0.190	
	4	7 ... 10	35	▶	<b>3RU11 26-1JB0</b>	1	1 unit	101	0.190	
	5.5	9 ... 12.5	35	▶	<b>3RU11 26-1KB0</b>	1	1 unit	101	0.190	
	7.5	11 ... 16	40	▶	<b>3RU11 26-4AB0</b>	1	1 unit	101	0.190	
	7.5	14 ... 20	50	▶	<b>3RU11 26-4BB0</b>	1	1 unit	101	0.190	
	11	17 ... 22	63	▶	<b>3RU11 26-4CB0</b>	1	1 unit	101	0.190	
	11	20 ... 25	63	▶	<b>3RU11 26-4DB0</b>	1	1 unit	101	0.190	
<b>Size S2</b>										
	S2	3	5.5 ... 8	25	▶	<b>3RU11 36-1HB0</b>	1	1 unit	101	0.320
		4	7 ... 10	35	▶	<b>3RU11 36-1JB0</b>	1	1 unit	101	0.320
		5.5	9 ... 12.5	35	▶	<b>3RU11 36-1KB0</b>	1	1 unit	101	0.320
	7.5	11 ... 16	40	▶	<b>3RU11 36-4AB0</b>	1	1 unit	101	0.320	
	7.5	14 ... 20	50	▶	<b>3RU11 36-4BB0</b>	1	1 unit	101	0.320	
	11	18 ... 25	63	▶	<b>3RU11 36-4DB0</b>	1	1 unit	101	0.320	
	15	22 ... 32	80	▶	<b>3RU11 36-4EB0</b>	1	1 unit	101	0.320	
	18.5	28 ... 40	80	▶	<b>3RU11 36-4FB0</b>	1	1 unit	101	0.320	
	22	36 ... 45	100	▶	<b>3RU11 36-4GB0</b>	1	1 unit	101	0.320	
	22	40 ... 50	100	▶	<b>3RU11 36-4HB0</b>	1	1 unit	101	0.320	
<b>Size S3</b>										
	S3	11	18 ... 25	63	▶	<b>3RU11 46-4DB0</b>	1	1 unit	101	0.550
		15	22 ... 32	80	▶	<b>3RU11 46-4EB0</b>	1	1 unit	101	0.550
	18.5	28 ... 40	80	▶	<b>3RU11 46-4FB0</b>	1	1 unit	101	0.550	
	22	36 ... 50	125	▶	<b>3RU11 46-4HB0</b>	1	1 unit	101	0.550	
	30	45 ... 63	125	▶	<b>3RU11 46-4JB0</b>	1	1 unit	101	0.550	
	37	57 ... 75	160	▶	<b>3RU11 46-4KB0</b>	1	1 unit	101	0.550	
	45	70 ... 90	160	▶	<b>3RU11 46-4LB0</b>	1	1 unit	101	0.550	
	45	80 ... 100 <sup>5)</sup>	200	▶	<b>3RU11 46-4MB0</b>	1	1 unit	101	0.550	

1) With the suitable terminal brackets (see "Accessories", page 5/50), the 3RU11 overload relays for direct mounting can also be installed as stand-alone units.

2) Observe maximum rated operational current of the devices.

3) Guide value for 4-pole standard motors at AC 50 Hz 400 V. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

4) Maximum protection by fuse for overload relay, type of coordination 2.

For fuse values in conjunction with contactors, see "Technical specifications" --> "Short-circuit protection with fuses/motor starter protectors for motor feeders", see note on Technical Information on page 5/1.

5) For overload relays > 100 A, see 3RB2.

\* You can order this quantity or a multiple thereof.

# Overload Relays





## SIRIUS 3RU1 Thermal Overload Relays

### 3RU11 for standard applications

**3RU11 thermal overload relays with screw terminals on the auxiliary current side for stand-alone installation<sup>1)</sup>, CLASS 10**

Features and technical specifications:

- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicator
- TEST function
- STOP button
- Integrated, sealable cover

Size of con- tactor <sup>2)</sup>	Rating for induction motor rated value <sup>3)</sup>	Current setting of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coord- ination 2, gL/gG opera- tional class <sup>4)</sup>	DT	Screw terminals (on auxiliary current side)	⊕	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
											Order No.
	kW	A	A							kg	
<b>Size S00</b>											
	S00	0.04	0.11 ... 0.16	0.5	B		1	1 unit	101	0.180	
		0.06	0.14 ... 0.2	1	B	<b>3RU11 16-0AB1</b>		1	1 unit	101	0.180
		0.06	0.18 ... 0.25	1	B	<b>3RU11 16-0CB1</b>		1	1 unit	101	0.180
		0.09	0.22 ... 0.32	1.6	B	<b>3RU11 16-0DB1</b>		1	1 unit	101	0.180
	0.09	0.28 ... 0.4	2	▶	<b>3RU11 16-0EB1</b>		1	1 unit	101	0.180	
	0.12	0.35 ... 0.5	2	▶	<b>3RU11 16-0FB1</b>		1	1 unit	101	0.180	
	0.18	0.45 ... 0.63	2	▶	<b>3RU11 16-0GB1</b>		1	1 unit	101	0.180	
	0.18	0.55 ... 0.8	4	▶	<b>3RU11 16-0HB1</b>		1	1 unit	101	0.180	
	3RU11 16-0AB1	0.25	0.7 ... 1	4	▶	<b>3RU11 16-0JB1</b>		1	1 unit	101	0.180
		0.37	0.9 ... 1.25	4	▶	<b>3RU11 16-0KB1</b>		1	1 unit	101	0.180
		0.55	1.1 ... 1.6	6	▶	<b>3RU11 16-1AB1</b>		1	1 unit	101	0.180
		0.75	1.4 ... 2	6	▶	<b>3RU11 16-1BB1</b>		1	1 unit	101	0.180
		0.75	1.8 ... 2.5	10	▶	<b>3RU11 16-1CB1</b>		1	1 unit	101	0.180
		1.1	2.2 ... 3.2	10	▶	<b>3RU11 16-1DB1</b>		1	1 unit	101	0.180
		1.5	2.8 ... 4	16	▶	<b>3RU11 16-1EB1</b>		1	1 unit	101	0.180
		1.5	3.5 ... 5	20	▶	<b>3RU11 16-1FB1</b>		1	1 unit	101	0.180
2.2	4.5 ... 6.3	20	▶	<b>3RU11 16-1GB1</b>		1	1 unit	101	0.180		
3	5.5 ... 8	25	▶	<b>3RU11 16-1HB1</b>		1	1 unit	101	0.180		
4	7 ... 10	35	▶	<b>3RU11 16-1JB1</b>		1	1 unit	101	0.180		
5.5	9 ... 12	35	▶	<b>3RU11 16-1KB1</b>		1	1 unit	101	0.180		
<b>Size S0</b>											
	S0	7.5	11 ... 16	40	▶	<b>3RU11 26-4AB1</b>		1	1 unit	101	0.240
		7.5	14 ... 20	50	▶	<b>3RU11 26-4BB1</b>		1	1 unit	101	0.240
		11	17 ... 22	63	▶	<b>3RU11 26-4CB1</b>		1	1 unit	101	0.240
		11	20 ... 25	63	▶	<b>3RU11 26-4DB1</b>		1	1 unit	101	0.240
		3RU11 16-4AB1									
<b>Size S2</b>											
	S2	15	22 ... 32	80	▶	<b>3RU11 36-4EB1</b>		1	1 unit	101	0.480
		18.5	28 ... 40	80	▶	<b>3RU11 36-4FB1</b>		1	1 unit	101	0.480
		22	36 ... 45	100	▶	<b>3RU11 36-4GB1</b>		1	1 unit	101	0.480
		22	40 ... 50	100	▶	<b>3RU11 36-4HB1</b>		1	1 unit	101	0.480
		3RU11 16-4EB1									
<b>Size S3</b>											
	S3	30	45 ... 63	125	▶	<b>3RU11 46-4JB1</b>		1	1 unit	101	0.810
		37	57 ... 75	160	▶	<b>3RU11 46-4KB1</b>		1	1 unit	101	0.810
		45	70 ... 90	160	▶	<b>3RU11 46-4LB1</b>		1	1 unit	101	0.810
		45	80 ... 100 <sup>5)</sup>	200	▶	<b>3RU11 46-4MB1</b>		1	1 unit	101	0.810
		3RU11 16-4JB1									

<sup>1)</sup> Sizes S00 to S3 for screw and snap-on mounting onto TH 35 standard mounting rails, size S3 also for TH 75 standard mounting rails.

<sup>2)</sup> Observe maximum rated operational current of the devices.

<sup>3)</sup> Guide value for 4-pole standard motors at AC 50 Hz 400 V. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

<sup>4)</sup> Maximum protection by fuse for overload relay, type of coordination 2.

For fuse values in conjunction with contactors, see "Technical specifications" --> "Short-circuit protection with fuses/motor starter protectors for motor feeders", see note on Technical Information on page 5/1.

<sup>5)</sup> For overload relays > 100 A, see 3RB2.

# Overload Relays

## SIRIUS 3RU1 Thermal Overload Relays





3RU11 for standard applications

3RU11 thermal overload relays with Cage Clamp terminals for direct mounting<sup>1)</sup> and stand-alone installation<sup>2)</sup>, CLASS 10

Features and technical specifications:

- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET

- Switch position indicator
- TEST function
- STOP button
- Integrated, sealable cover

Size of con-tactor <sup>3)</sup>	Rating for induction motor rated value <sup>4)</sup>	Current setting of the inverse-time delayed overload release	Short-circuit protection with fuse, type of coordination 2, gL/gG operational class <sup>5)</sup>	DT	Cage Clamp terminals (on auxiliary current side)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
										Order No.
kW		A	A						kg	
<b>Size S00 for stand-alone installation<sup>6)</sup></b>										
 3RU11 16-..C1	S00	0.04	0.11 ... 0.16	0.5	B	3RU11 16-0AC1	1	1 unit	101	0.190
		0.06	0.14 ... 0.2	1	B	3RU11 16-0BC1	1	1 unit	101	0.190
		0.06	0.18 ... 0.25	1	B	3RU11 16-0CC1	1	1 unit	101	0.190
		0.09	0.22 ... 0.32	1.6	B	3RU11 16-0DC1	1	1 unit	101	0.190
		0.09	0.28 ... 0.4	2	B	3RU11 16-0EC1	1	1 unit	101	0.190
		0.12	0.35 ... 0.5	2	B	3RU11 16-0FC1	1	1 unit	101	0.190
		0.18	0.45 ... 0.63	2	▶	3RU11 16-0GC1	1	1 unit	101	0.190
		0.18	0.55 ... 0.8	4	▶	3RU11 16-0HC1	1	1 unit	101	0.190
		0.25	0.7 ... 1	4	▶	3RU11 16-0JC1	1	1 unit	101	0.190
		0.37	0.9 ... 1.25	4	▶	3RU11 16-0KC1	1	1 unit	101	0.190
		0.55	1.1 ... 1.6	6	▶	3RU11 16-1AC1	1	1 unit	101	0.190
		0.75	1.4 ... 2	6	▶	3RU11 16-1BC1	1	1 unit	101	0.190
		0.75	1.8 ... 2.5	10	B	3RU11 16-1CC1	1	1 unit	101	0.190
		1.1	2.2 ... 3.2	10	▶	3RU11 16-1DC1	1	1 unit	101	0.190
		1.5	2.8 ... 4	16	B	3RU11 16-1EC1	1	1 unit	101	0.190
		1.5	3.5 ... 5	20	▶	3RU11 16-1FC1	1	1 unit	101	0.190
		2.2	4.5 ... 6.3	20	▶	3RU11 16-1GC1	1	1 unit	101	0.190
	3	5.5 ... 8	25	▶	3RU11 16-1HC1	1	1 unit	101	0.190	
	4	7 ... 10	35	▶	3RU11 16-1JC1	1	1 unit	101	0.190	
	5.5	9 ... 12	35	▶	3RU11 16-1KC1	1	1 unit	101	0.190	
<b>Size S0 for direct mounting<sup>1)7)</sup></b>										
 3RU11 16-..D0	S0	0.75	1.8 ... 2.5	10	B	3RU11 26-1CD0	1	1 unit	101	0.190
		1.1	2.2 ... 3.2	10	B	3RU11 26-1DD0	1	1 unit	101	0.190
		1.5	2.8 ... 4	16	B	3RU11 26-1ED0	1	1 unit	101	0.190
		1.5	3.5 ... 5	20	B	3RU11 26-1FD0	1	1 unit	101	0.190
		2.2	4.5 ... 6.3	20	B	3RU11 26-1GD0	1	1 unit	101	0.190
		3	5.5 ... 8	25	B	3RU11 26-1HD0	1	1 unit	101	0.190
		4	7 ... 10	35	B	3RU11 26-1JD0	1	1 unit	101	0.190
		5.5	9 ... 12.5	35	B	3RU11 26-1KD0	1	1 unit	101	0.190
		7.5	11 ... 16	40	▶	3RU11 26-4AD0	1	1 unit	101	0.190
		7.5	14 ... 20	50	▶	3RU11 26-4BD0	1	1 unit	101	0.190
		11	17 ... 22	63	▶	3RU11 26-4CD0	1	1 unit	101	0.190
		11	20 ... 25	63	▶	3RU11 26-4DD0	1	1 unit	101	0.190
	<b>Size S2 for direct mounting<sup>1)7)</sup></b>									
 3RU11 36-..D0	S2	3	5.5 ... 8	25	B	3RU11 36-1HD0	1	1 unit	101	0.320
		4	7 ... 10	35	B	3RU11 36-1JD0	1	1 unit	101	0.320
		5.5	9 ... 12.5	35	B	3RU11 36-1KD0	1	1 unit	101	0.320
		7.5	11 ... 16	40	B	3RU11 36-4AD0	1	1 unit	101	0.320
		7.5	14 ... 20	50	B	3RU11 36-4BD0	1	1 unit	101	0.320
		11	18 ... 25	63	B	3RU11 36-4DD0	1	1 unit	101	0.320
		15	22 ... 32	80	▶	3RU11 36-4ED0	1	1 unit	101	0.320
		18.5	28 ... 40	80	▶	3RU11 36-4FD0	1	1 unit	101	0.320
		22	36 ... 45	100	▶	3RU11 36-4GD0	1	1 unit	101	0.320
		22	40 ... 50	100	▶	3RU11 36-4HD0	1	1 unit	101	0.320
<b>Size S3 for direct mounting<sup>1)7)</sup></b>										
 3RU11 46-..D0	S3	11	18 ... 25	63	B	3RU11 46-4DD0	1	1 unit	101	0.550
		15	22 ... 32	80	B	3RU11 46-4ED0	1	1 unit	101	0.550
		18.5	28 ... 40	80	B	3RU11 46-4FD0	1	1 unit	101	0.550
		22	36 ... 50	125	B	3RU11 46-4HD0	1	1 unit	101	0.550
		30	45 ... 63	125	▶	3RU11 46-4JD0	1	1 unit	101	0.550
		37	57 ... 75	160	▶	3RU11 46-4KD0	1	1 unit	101	0.550
		45	70 ... 90	160	▶	3RU11 46-4LD0	1	1 unit	101	0.550
		45	80 ... 100	200	▶	3RU11 46-4MD0	1	1 unit	101	0.550

1) With the suitable terminal brackets (see "Accessories", page 5/50), the 3RU11 overload relays for direct mounting can also be installed as stand-alone units.

2) Size S00 for screw and snap-on mounting onto TH 35 standard mounting rail.

3) Observe maximum rated operational current of the devices.

4) Guide value for 4-pole standard motors at AC 50 Hz 400 V. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

5) Maximum protection by fuse for overload relay, type of coordination 2.

For fuse values in conjunction with contactors, see "Technical specifications" --> "Short-circuit protection with fuses/motor starter protectors for motor feeders", see note on Technical Information on page 5/1.

6) Auxiliary and main conductor connections with Cage Clamp terminal.

7) Auxiliary conductor connections with Cage Clamp terminals and main conductor connections with screw terminals.

\* You can order this quantity or a multiple thereof.

# Overload Relays

## SIRIUS 3RU1 Thermal Overload Relays





### Accessories

#### Overview

The following optional accessories are available for the 3RU11 thermal overload relays:

- For the four overload relay sizes S00 to S3 one terminal bracket each for stand-alone installation
- One mechanical RESET module for all sizes
- One cable release for resetting devices which are difficult to access (for all sizes)
- One electrical remote RESET module in three voltage variants for all sizes
- Terminal covers

#### Selection and ordering data

Version	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Terminal brackets for stand-alone installation</b>								
	For separate mounting of overload relays; screw and snap-on mounting onto TH 35 standard mounting rail; size S3 also for TH 75 standard mounting rail	S00	▶	<b>3RU19 16-3AA01</b>		1	1 unit	101 0.060
		S0	▶	<b>3RU19 26-3AA01</b>		1	1 unit	101 0.080
		S2	▶	<b>3RU19 36-3AA01</b>		1	1 unit	101 0.180
		S3	▶	<b>3RU19 46-3AA01</b>		1	1 unit	101 0.280
<b>Mechanical RESET<sup>1)</sup></b>								
	<b>Resetting plungers, holders and formers</b>	S00 ... S3	▶	<b>3RU19 00-1A</b>		1	1 unit	101 0.038
	<b>Pushbuttons with extended stroke</b> (12 mm), IP65, Ø 22 mm		B	<b>3SB30 00-0EA11</b>		1	1 unit	102 0.020
	<b>Extension plungers</b> For compensation of the distance between the pushbutton and the unlatching button of the relay		A	<b>3SX1 335</b>		1	1 unit	102 0.004
<b>Cable releases with holder for RESET<sup>1)</sup></b>								
	For Ø 6.5 mm holes in the control panel; max. control panel thickness 8 mm	S00 ... S3						
	• Length 400 mm • Length 600 mm		▶	<b>3RU19 00-1B</b>		1	1 unit	101 0.063
			▶	<b>3RU19 00-1C</b>		1	1 unit	101 0.073
<b>Modules for remote RESET, electrical</b>								
	Operating range	24 ... 30 V	S00 ... S3	▶	<b>3RU19 00-2AB71</b>	1	1 unit	101 0.066
	0.85 ... 1.1 x U <sub>N</sub>	110 ... 127 V		▶	<b>3RU19 00-2AF71</b>	1	1 unit	101 0.067
	power consumption AC 80 VA, DC 70 W, ON period 0.2 ... 4 s, switching frequency 60/h	220 ... 250 V		▶	<b>3RU19 00-2AM71</b>	1	1 unit	101 0.066
<b>Terminal covers<sup>1)</sup></b>								
<b>Covers for cable lugs and busbar connections</b>								
	• Length 55 mm	S3	▶	<b>3RT19 46-4EA1</b>		1	1 unit	101 0.040
<b>Covers for box terminals</b>								
	• Length 20.6 mm	S2	▶	<b>3RT19 36-4EA2</b>		1	1 unit	101 0.020
	• Length 20.8 mm	S3	▶	<b>3RT19 46-4EA2</b>		1	1 unit	101 0.025

For more accessories (screwdrivers and labeling plates), see page 5/62.

<sup>1)</sup> The accessories are identical to those of the 3RB2 solid-state overload relays.