



Overload relay 0.45...0.63 A size S00, class 10, for motor protection for mounting onto contactors main circuit: screw terminal AUX. circuit: screw terminal manual automatic reset

product brand name	SIRIUS
product designation	Thermal overload relay
product type designation	3RU6
<b>General technical data</b>	
size of contactor can be combined company-specific	S00
power loss [W] total typical	4.1 W
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
• per pole	1.6 W
type of calculation of power loss current-dependent	quadratic
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	8 g / 11 ms
Substance Prohibitance (day/month/year)	05/01/2012
Net Weight	0.13 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-40 ... +70 °C
• during transport	-55 ... +80 °C
relative humidity during operation	0 ... 90 %
<b>Main circuit</b>	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.45 ... 0.63 A
operating voltage rated value	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	0.63 A
<b>Auxiliary circuit</b>	
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	2 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 110 V	0.22 A
<b>Protective and monitoring functions</b>	
trip class	CLASS 10
design of the overload release	thermal
<b>Installation/ mounting/ dimensions</b>	

mounting position	any
fastening method	Contacteur mounting
height	76 mm
width	45 mm
depth	70 mm
required spacing for grounded parts at the side	6 mm

### Connections/ Terminals

<b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>	screw-type terminals screw-type terminals
<b>arrangement of electrical connectors for main current circuit</b>	Top and bottom
type of connectable conductor cross-sections for main contacts <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
<b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 2x (20 ... 16), 2x (18 ... 14)
tightening torque for main contacts with screw-type terminals	0.8 ... 1.2 N·m

### Electrical Safety

<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front

### Approvals Certificates

<b>General Product Approval</b>	<b>Maritime application</b>	<b>other</b>
---------------------------------	-----------------------------	--------------



[CCS \(China Classification Society\)](#)

[Confirmation](#)

<b>other</b>	<b>Environment</b>
--------------	--------------------

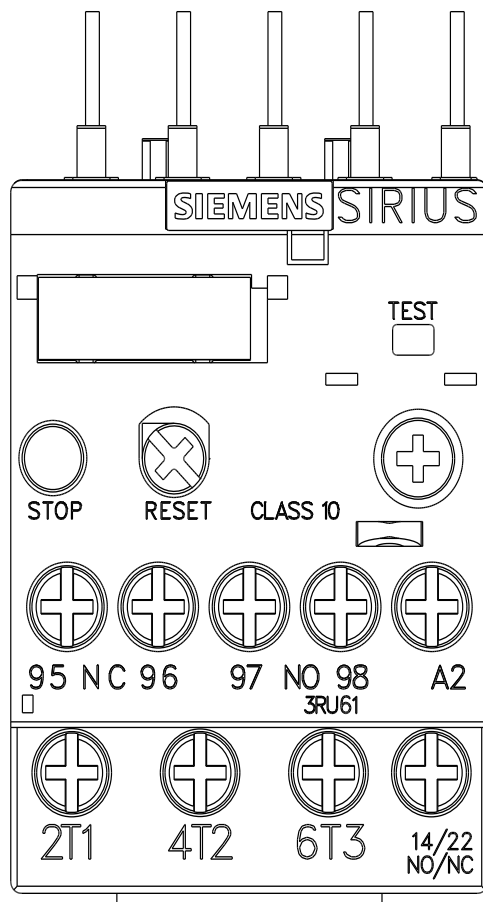
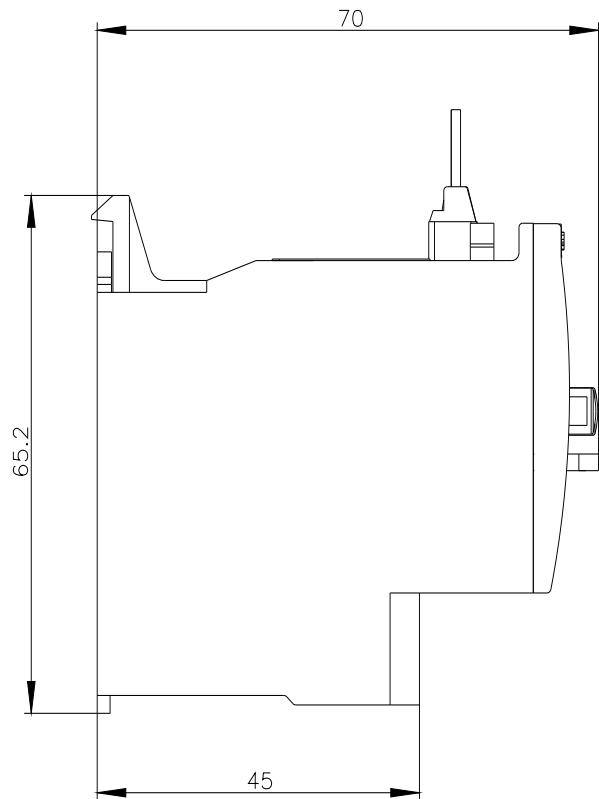
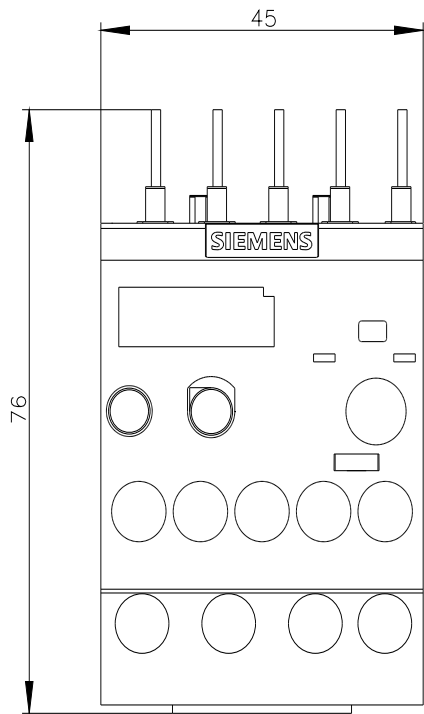
[Confirmation](#)

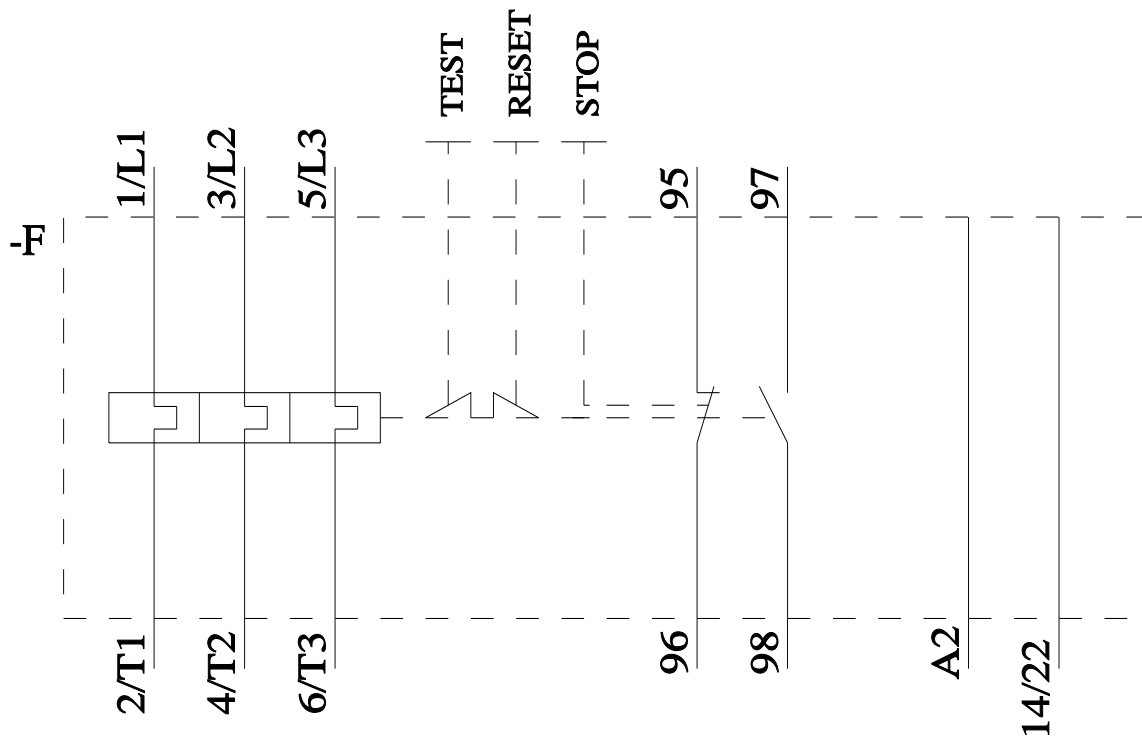


[Environmental Confirmations](#)

### Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN>





last modified:

4/4/2026 