



Thermal overload relay RANGE 0.63-1A Class 10 For mounting on 3MT7 contactors Size 0,1,2 Main circuit: Screw Auxiliary circuit: Screw Manual Automatic reset

product brand name	SINOVA
product designation	Thermal overload relay
product type designation	3MU7
<b>General technical data</b>	
size of overload relay	Size 1
size of contactor can be combined company-specific	3MT7 Size 0, 1, 2
power loss [W] for rated value of the current at AC in hot operating state	10.8 W
• per pole	3.6 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	07/01/2022
Weight	0.175 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-5 ... +55 °C
• during storage	-25 ... +70 °C
temperature compensation	-5 ... +55 °C
relative humidity during operation	10 ... 95 %
<b>Main circuit</b>	
number of poles for main current circuit	3
type of voltage for main current circuit	AC
operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	1 A
operational current at AC-3 at 400 V rated value	1 A
operating power at AC-3	
• at 400 V rated value	0.25 kW
• at 690 V rated value	0.55 kW
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
• note	for message "Tripped"
operational current of auxiliary contacts at AC-15	

<ul style="list-style-type: none"><li>• at 24 V</li><li>• at 110 V</li><li>• at 690 V</li></ul>	4.17 A 3.64 A 0.7 A		
<b>operational current of auxiliary contacts at DC-13</b> <ul style="list-style-type: none"><li>• at 24 V</li><li>• at 110 V</li><li>• at 220 V</li></ul>	4.17 A 0.45 A 0.2 A		
<b>Short-circuit protection</b>			
<b>design of the fuse link</b> <ul style="list-style-type: none"><li>• for short-circuit protection of the main circuit with type of assignment 2 required</li><li>• for short-circuit protection of the auxiliary switch required</li></ul>	gG: 4 A, Type-2 co-ordination  fuse gG: 10 A		
<b>Installation/ mounting/ dimensions</b>			
<b>mounting position</b>	22.5° Inclination forward and backward & ± 90° rotation, in relation to normal vertical mounting plane		
<b>fastening method</b>	Contactor mounting		
<b>height</b>	64 mm		
<b>width</b>	44 mm		
<b>depth</b>	92 mm		
<b>Connections/ Terminals</b>			
<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		
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>	1x (1 ... 6 mm²) 1x (1 ... 10 mm²)		
type of connectable conductor cross-sections for auxiliary contacts <ul style="list-style-type: none"><li>• solid or stranded</li><li>• finely stranded with core end processing</li></ul>	1x (1 ... 4 mm²) 1x (1 ... 4 mm²)		
<b>tightening torque</b> <ul style="list-style-type: none"><li>• for main contacts with screw-type terminals</li><li>• for auxiliary contacts with screw-type terminals</li></ul>	1.85 N·m 1.2 N·m		
<b>design of the thread of the connection screw</b> <ul style="list-style-type: none"><li>• for main contacts</li><li>• of the auxiliary and control contacts</li></ul>	M4 M3.5		
<b>Electrical Safety</b>			
<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		
<b>Display</b>			
display version for switching status	Trip indicator		
<b>Approvals Certificates</b>			
<b>General Product Ap- proval</b>	<b>Test Certificates</b>	<b>other</b>	<b>Environment</b>



[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MU7110-0EA0>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7110-0EA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0EA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3MU7110-0EA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7110-0EA0&lang=en)

##### Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0EA0/char>



