## SIEMENS

## Data sheet

## 3MU7210-1AA0

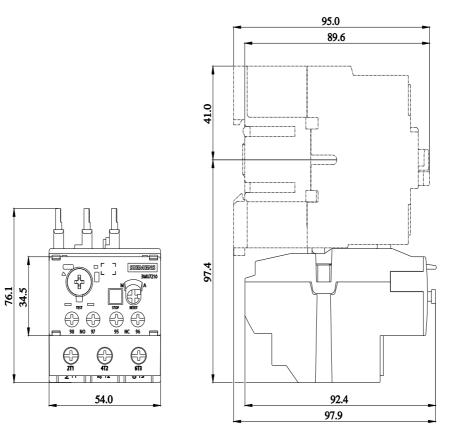


Thermal overload relay RANGE 23-32A Class 10 For mounting on 3MT7 contactors Size 2 Main circuit: Screw Auxiliary circuit: Screw Manual Automatic reset

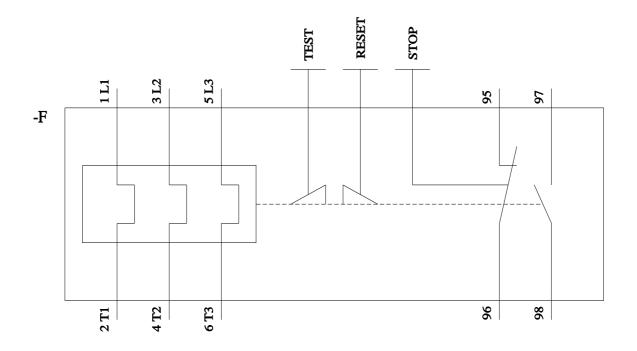
product brand name	SINOVA		
product designation	Thermal overload relay		
product type designation	3MU7		
General technical data			
size of overload relay	Size 2		
size of contactor can be combined company-specific	3MT7 Size 2		
power loss [W] for rated value of the current at AC in hot operating state	16.5 W		
• per pole	5.5 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	0.245 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-5 +55 °C		
during storage	-25 +70 °C		
temperature compensation	-5 +55 °C		
relative humidity during operation	10 95 %		
Main circuit			
number of poles for main current circuit	3		
type of voltage for main current circuit	AC		
operating voltage			
rated value	690 V		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	32 A		
operational current at AC-3 at 400 V rated value	32 A		
operating power at AC-3			
• at 400 V rated value	15 kW		
<ul> <li>at 690 V rated value</li> </ul>	30 kW		
Auxiliary circuit			
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			

• at 24 V			4.17	A
• at 110 V			3.64 /	A
• at 690 V			0.7 A	
operational current of	auxiliary contacts at DO	C-13		
• at 24 V			4.17 A	A
• at 110 V		0.45 A		
• at 220 V			0.2 A	
Short-circuit protection				
design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit with type of assignment 2 required</li> </ul>		gG: 50 A, Type-2 co-ordination		
<ul> <li>for short-circuit p</li> </ul>	• for short-circuit protection of the auxiliary switch required		fuse gG: 10 A	
Installation/ mounting/ o	dimensions			
mounting position				Inclination forward and backward & $\pm$ 90° rotation, in relation to normal al mounting plane
fastening method		Contactor mounting		
height			76.5 mm	
width			44 mm	
depth			92.5 mm	
<b>Connections/ Terminals</b>	;			
type of electrical conn	ection			
<ul> <li>for main current of</li> </ul>	for main current circuit		screw-type terminals	
<ul> <li>for auxiliary and of</li> </ul>	<ul> <li>for auxiliary and control circuit</li> </ul>		screw-type terminals	
type of connectable con	nductor cross-sections for	main contacts		
<ul> <li>solid or stranded</li> </ul>		1x (1.5 10 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		1x (2.5 10.0 mm²)		
type of connectable con contacts	nductor cross-sections for	auxiliary		
<ul> <li>solid or stranded</li> </ul>	<ul> <li>solid or stranded</li> </ul>		1x (1 4 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1 4 mm²)	
tightening torque	tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>		2.5 N·m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N·m		
design of the thread of the connection screw				
<ul> <li>for main contacts</li> </ul>		M4		
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5		
Electrical Safety				
protection class IP on the front according to IEC 60529		IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front		
Display				
			Trip ir	ndicator
Approvals Certificates				
General Product Ap- proval	Test Certificates	other		Environment
CE	<u>Type Test Certific-</u> ates/Test Report	Confirmation	n	Environmental Con- firmations
EG-Konf.				

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=3MU7210-1AA0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7210-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3MU7210-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MU7210-1AA0&lang=en Characteristic: Tripping characteristics, I2t, Let-through current https://support.indu mens.com/cs/ww/en/ps/3MU7210-1AA0/ch



## 3MT70252-3MT70402



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