## **SIEMENS**

Data sheet 3MU7310-2CA0



Thermal overload relay RANGE 37-50A Class 10 For mounting on 3MT7 contactors Size 3,4 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 3				
size of contactor can be combined company-specific	3MT7 Size 3, 4				
power loss [W] for rated value of the current at AC in hot operating state	21.6 W				
• per pole	7.2 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	0.491 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	50 A				
operational current at AC-3 at 400 V rated value	50 A				
operating power at AC-3					
• at 400 V rated value	22 kW				
• at 690 V rated value	45 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					

			4.47		
• at 24 V			4.17 A		
	• at 110 V		3.64 A		
	• at 690 V		0.7 A		
-	auxiliary contacts at DC	:-13			
• at 24 V			4.17 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 prassignment 2 requi</li> </ul>	rotection of the main circuired	it with type of	gG: 80 A, Type-2 co-ordination		
<ul> <li>for short-circuit presented</li> </ul>	for short-circuit protection of the auxiliary switch required		fuse g	fuse gG: 10 A	
Installation/ mounting/ o	dimensions				
mounting position	mounting position		22.5° Inclination forward and backward $\&\pm90^\circ$ rotation, in relation to normal vertical mounting plane		
fastening method			Contactor mounting		
height			79.5 r	79.5 mm	
width			70 mr	70 mm	
depth			115 mm		
Connections/ Terminals	;				
type of electrical conn	ection				
• for main current of	for main current circuit		screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	for auxiliary and control circuit		screw-type terminals		
type of connectable con	nductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>	solid or stranded		1x (4 35 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (2.	5 35 mm²)	
type of connectable conductor cross-sections for auxiliary contacts					
solid or stranded		1x (1 4 mm²)			
<ul> <li>finely stranded w</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>		1x (1 4 mm²)		
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>		9 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					
• for main contacts		M10			
of the auxiliary and control contacts		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					
display version for switching status		Trip indicator			
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	



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=3MU7310-2CA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7310-2CA0

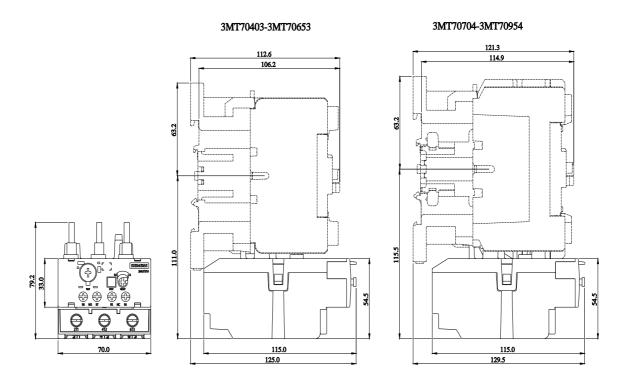
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

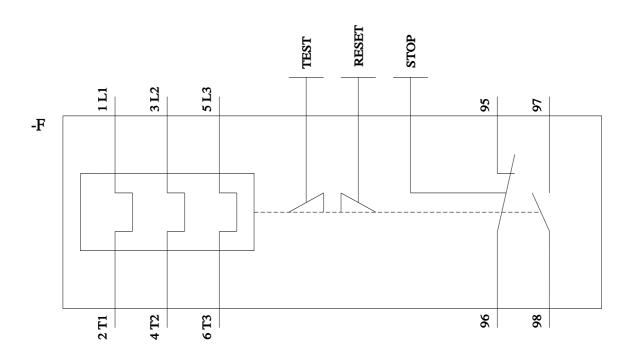
https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2CA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MU7310-2CA0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MU7310-2CA0&lang=en</a>

http://www.automation.siemens.com/bilddb/cax\_de.aspx?milb=sivio7510-2CA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ns/3MLI7310-2CA0/ch





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