SIEMENS

Data sheet 3MU7110-0PA0



Thermal overload relay RANGE 12-18A 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				
General technical data					
size of overload relay	Size 1				
size of contactor can be combined company-specific	3MT7 Size 1, 2				
power loss [W] for rated value of the current at AC in hot operating state	16.2 W				
• per pole	5.4 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				
Ambient conditions					
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 %				
Main circuit					
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	18 A				
operational current at AC-3 at 400 V rated value	18 A				
operating power at AC-3					
 at 400 V rated value 	7.5 kW				
 at 690 V rated value 	15 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					

-4.04.1/			4.47		
• at 24 V			4.17		
	• 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					
	 for short-circuit protection of the main circuit with type of assignment 2 required 		gG: 32 A, Type-2 co-ordination		
 for short-circuit presented 	for short-circuit protection of the auxiliary switch required		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			Conta	Contactor mounting	
height			64 mm		
width			44 mr	44 mm	
depth			92 mm		
Connections/ Terminals	;				
type of electrical conn	ection				
 for main current of 	for main current circuit		screw-type terminals		
 for auxiliary and of 	for auxiliary and control circuit		screw-type terminals		
type of connectable con	nductor cross-sections for	main contacts			
 solid or stranded 	solid or stranded		1x (1 6 mm²)		
 finely stranded w 	ith core end processing		1x (1 10 mm²)		
type of connectable conductor cross-sections for auxiliary contacts					
solid or stranded		1x (1 4 mm²)			
 finely stranded w 	 finely stranded with core end processing 		1x (1 4 mm²)		
tightening torque					
 for main contacts with screw-type terminals 		1.85 N·m			
 for auxiliary contacts with screw-type terminals 		1.2 N·m			
design of the thread o	f the connection screw				
for main contacts		M4			
 of the auxiliary ar 	 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=3MU7110-0PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7110-0PA0

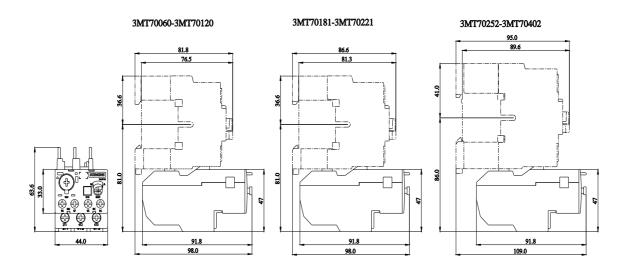
 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

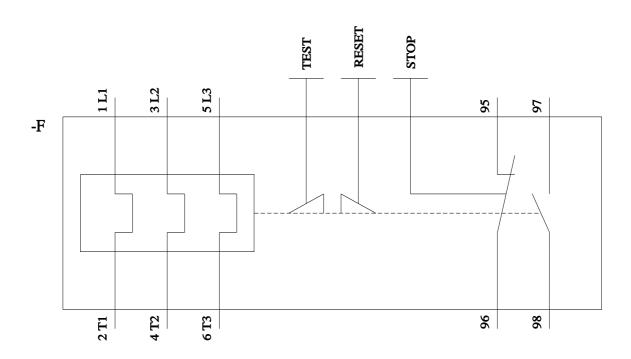
https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0PA0

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7110-0PA0\&lang=en}}$

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0PA0/cha





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