SIEMENS

Data sheet 3MU7310-2BA0



Thermal overload relay RANGE 30-40A 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	17.1 W		
• per pole	5.7 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			
 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	40 A		
operational current at AC-3 at 400 V rated value	40 A		
operating power at AC-3			
• at 400 V rated value	18.5 kW		
 at 690 V rated value 	37 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	A		
at 110 V			3.64 A	A		
• at 690 V			0.7 A			
operational current of	auxiliary contacts at DC	C-13				
at 24 V	• at 24 V		4.17 A			
• at 110 V			0.45 A			
• at 220 V	• 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: 80 A, Type-2 co-ordination			
 for short-circuit pr 	for short-circuit protection of the auxiliary switch required		fuse gG: 10 A			
Installation/ mounting/ c	dimensions					
mounting position		22.5° Inclination forward and backward $\&\pm90^\circ$ rotation, in relation to normal vertical mounting plane				
fastening method	fastening method		Contactor mounting			
height		79.5 mm				
width			70 mr	70 mm		
depth		115 mm				
Connections/ Terminals						
type of electrical conn	ection					
for main current circuit		screw-type terminals				
 for auxiliary and control circuit 		screw-type terminals				
type of connectable con	ductor cross-sections for	main contacts				
solid or stranded		1x (4 35 mm²)				
 finely stranded wi 	ith core end processing		1x (2.	1x (2.5 35 mm²)		
type of connectable conductor cross-sections for auxiliary contacts						
solid or stranded		1x (1 4 mm²)				
 finely stranded with core end processing 		1x (1 4 mm²)				
tightening torque						
• for main contacts with screw-type terminals		9 N·m				
 for auxiliary contacts with screw-type terminals 		1.2 N·m				
design of the thread of	f the connection screw					
• for main contacts		M10				
 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		

CE.

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=3MU7310-2BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7310-2BA0

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

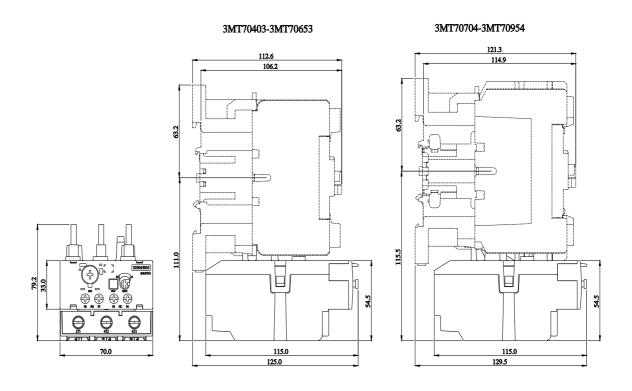
https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2BA0

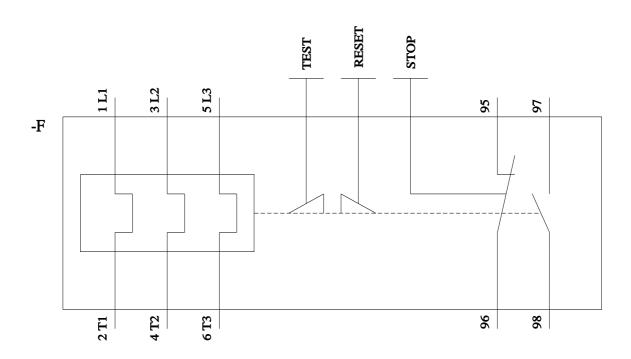
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7310-2BA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2BA0/cha





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