



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	15 g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (day/month/year)	07/01/2022
Net Weight	0.448 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	
• at 110 V		3.64 A	
• at 690 V		0.7 A	
operational current of 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 coordination 2 required		gG: 80 A, Type-2 co-ordination	
• for short-circuit protection of the auxiliary switch required		fuse gG: 10 A	
Installation/ mounting/ dimensions			
mounting position		22.5° Inclination forward and backward & ± 90° rotation, in relation to normal vertical mounting plane	
fastening method		Contactor mounting	
height		79.5 mm	
width		70 mm	
depth		115 mm	
Connections/ Terminals			
type of electrical connection			
• for main current circuit		screw-type terminals	
• for auxiliary and control circuit		screw-type terminals	
type of connectable conductor cross-sections for main contacts			
• solid or stranded		1x (4 ... 35 mm²)	
• finely stranded with core end processing		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 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			
Environment	General Product Approval	Test Certificates	other

[Environmental Conformations](#)



[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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>

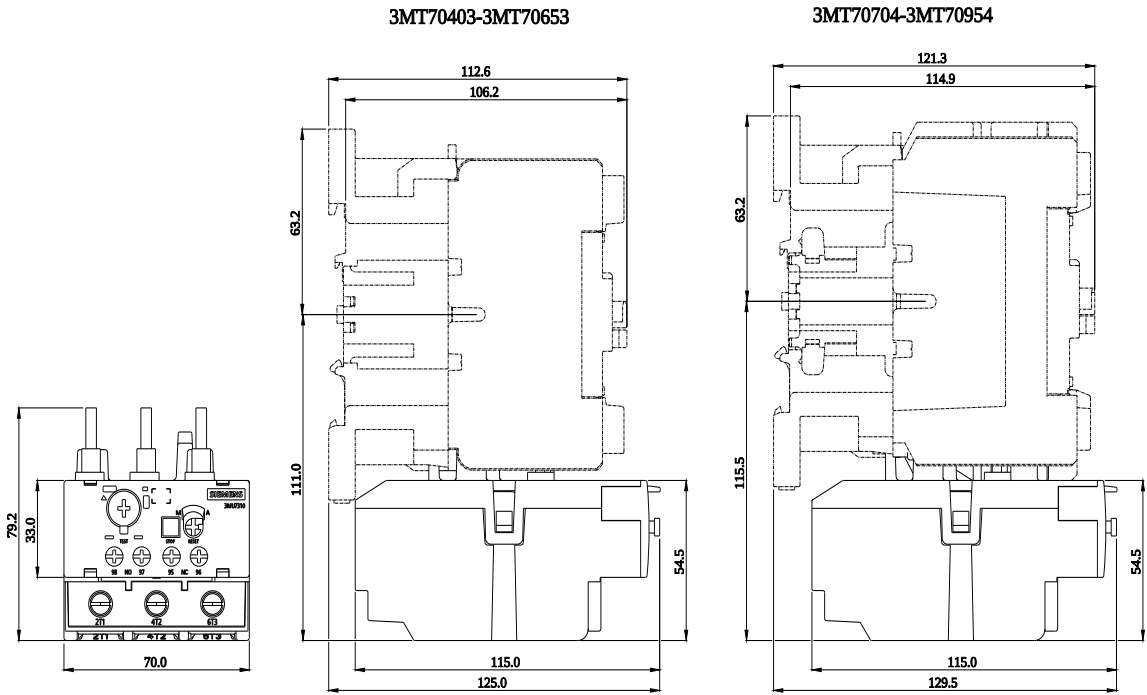
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

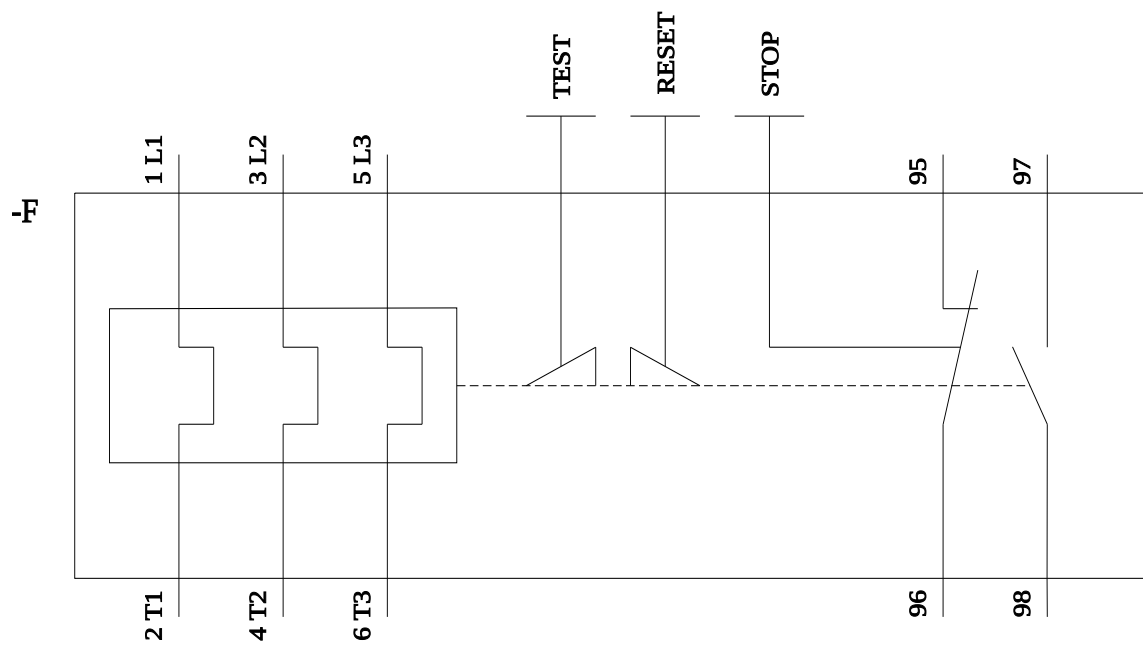
<https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2BA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7310-2BA0&lang=en

Cax online generator
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7310-2BA0>

Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>





last modified:

4/4/2026 