



Thermal overload relay RANGE 1.6-2.5A 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 0, 1, 2
power loss [W] for rated value of the current at AC in hot operating state	10.8 W
• per pole	3.6 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	0.15 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	2.5 A
operational current at AC-3 at 400 V rated value	2.5 A
operating power at AC-3	
• at 400 V rated value	0.75 kW
• at 690 V rated value	1.5 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: 6 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	64 mm
width	44 mm
depth	92 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 (1 ... 6 mm²)
• finely stranded with 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 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 of the connection screw	
• for main contacts	M4
• 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
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Approvals Certificates

Environment	General Product Approval	Test Certificates	other
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[Environmental Con-
firmations](#)



[Type Test Certi-
ficates/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=3MU7110-0HA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0HA0>

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

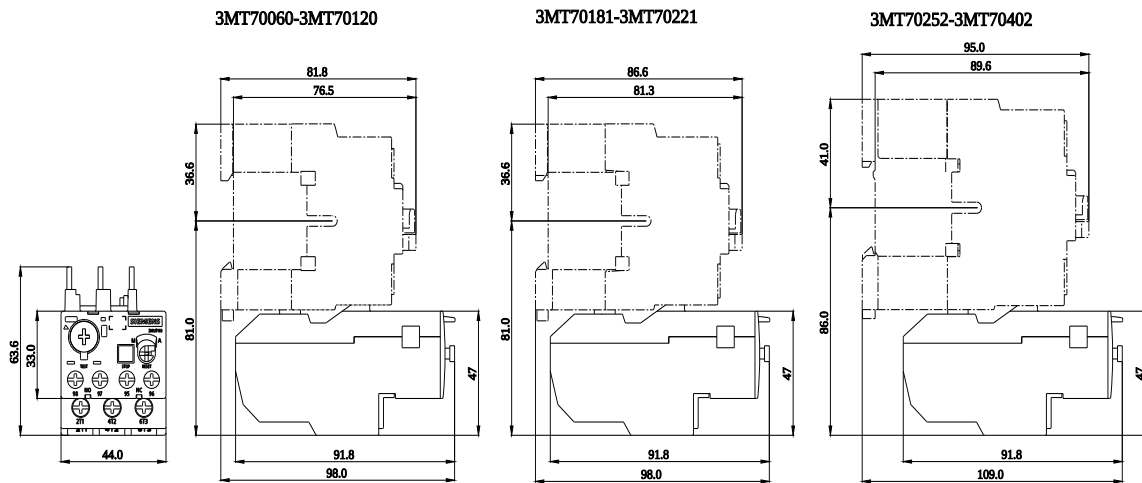
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7110-0HA0&lang=en

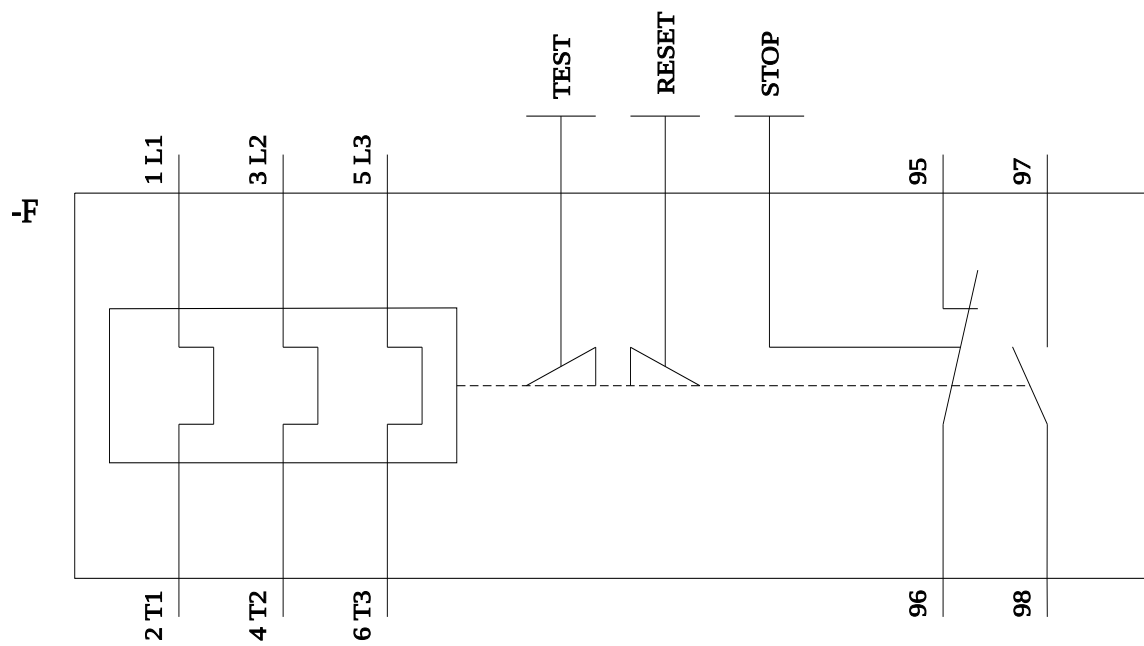
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7110-0HA0>

Characteristic curves

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last modified:

4/4/2026 