



Thermal overload relay RANGE 55-70A 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 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	
• 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	70 A
operational current at AC-3 at 400 V rated value	70 A
operating power at AC-3	
• at 400 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

<ul style="list-style-type: none">• at 110 V• at 690 V		3.64 A	
		0.7 A	
operational current of auxiliary contacts at DC-13			
<ul style="list-style-type: none">• at 24 V• at 110 V• at 220 V		4.17 A	
		0.45 A	
		0.2 A	
Short-circuit protection			
design of the fuse link			
<ul style="list-style-type: none">• for short-circuit protection of the main circuit with type of assignment 2 required		gG: 125 A, Type-2 co-ordination	
<ul style="list-style-type: none">• 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			
<ul style="list-style-type: none">• for main current circuit		screw-type terminals	
<ul style="list-style-type: none">• for auxiliary and control circuit		screw-type terminals	
type of connectable conductor cross-sections for main contacts			
<ul style="list-style-type: none">• solid or stranded		1x (4 ... 35 mm²)	
<ul style="list-style-type: none">• finely stranded with core end processing		1x (2.5 ... 35 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
<ul style="list-style-type: none">• solid or stranded		1x (1 ... 4 mm²)	
<ul style="list-style-type: none">• finely stranded with core end processing		1x (1 ... 4 mm²)	
tightening torque			
<ul style="list-style-type: none">• for main contacts with screw-type terminals		9 N·m	
<ul style="list-style-type: none">• for auxiliary contacts with screw-type terminals		1.2 N·m	
design of the thread of the connection screw			
<ul style="list-style-type: none">• for main contacts		M10	
<ul style="list-style-type: none">• 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 Ap- proval	Test Certificates	other	Environment



[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Conformations](#)

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=3MU7310-2EA0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7310-2EA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2EA0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7310-2EA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2EA0/char>

Further characteristics (e.g. electrical endurance, switching frequency)



