

CT operated Thermal OLR RANGE 115-180A Class 10A



product brand name	SINOVA
product designation	Thermal overload relay CT operated
product type designation	3MU7
General technical data	
size of overload relay	Size 4
power loss [W] for rated value of the current at AC in hot operating state	14.4 W
• per pole	4.8 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance of main circuit rated value	8 kV
shock resistance according to IEC 60068-2-27	8 g / 10 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (day/month/year)	11/07/2022
Net Weight	1.6 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	400 V
• at AC-3 rated value maximum	400 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	180 A
operational current at AC-3 at 400 V rated value	180 A
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	2 A
• at 110 V	1.25 A
• at 690 V	0.3 A

operational current of auxiliary contacts at DC-13		
• at 24 V		1 A
• at 110 V		0.22 A
• at 220 V		0.1 A
Short-circuit protection		
design of the fuse link		
• for short-circuit protection of the main circuit with type of coordination 2 required		gG: 250 A, Type-2 co-ordination
• for short-circuit protection of the auxiliary switch required		fuse gG: 6 A
Installation/ mounting/ dimensions		
mounting position		22.5° Inclination forward and backward & ± 90° rotation, in relation to normal vertical mounting plane
fastening method		Stand-alone installation by screw fixing
height		157 mm
width		147 mm
depth		173 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		
• finely stranded with core end processing		2x (25 ... 95 mm²)
type of connectable conductor cross-sections for auxiliary contacts		
• solid or stranded		2x (1 ... 2.5 mm²)
• finely stranded with core end processing		2x (0.75 ... 1.5 mm²)
tightening torque		
• for main contacts with screw-type terminals		10 ... 14 N·m
• for auxiliary contacts with screw-type terminals		0.8 ... 1.2 N·m
design of the thread of the connection screw		
• for main contacts		M8
• of the auxiliary and control contacts		M3.5
Electrical Safety		
protection class IP on the front according to IEC 60529		IP00
touch protection on the front according to IEC 60529		finger-safe for auxiliary contacts on the front
Display		
display version for switching status		Trip indicator
Approvals Certificates		
Environment	General Product Approval	other

[Environmental Conformations](#)



[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=3MU7410-3BA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MU7410-3BA1>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7410-3BA1&lang=en

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7410-3BA1>

Characteristic curves

https://curves.simarisiemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



