SIEMENS

Data sheet 3MU7310-2EA0



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

• at 110 V	3.64 A
	0.7 A
• at 690 V	0.7 A
operational current of auxiliary contacts at DC-13	4.47.4
• 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 assignment 2 required 	gG: 125 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 $\&\pm90^\circ$ 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	
General Product Approval Test Certificates other	Environment



Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

Further information

Information on the packaging

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

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3MU7310-2EA0}$

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

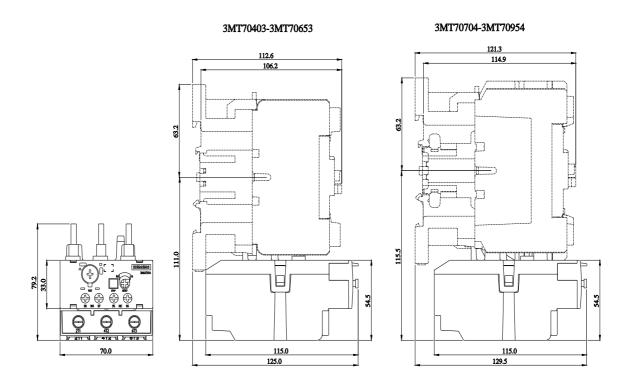
https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2EA0

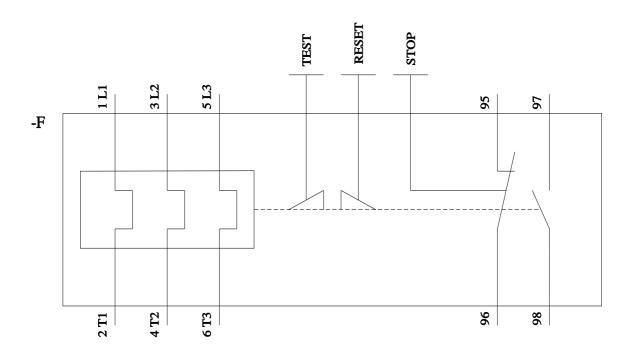
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

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)





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