SIEMENS

Data sheet 3MU7110-0MA0



Thermal overload relay RANGE 7-10A 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 | 15g / 11 ms | | | | |
| reference code according to IEC 81346-2 | F | | | | |
| Substance Prohibitance (Date) | 07/01/2022 | | | | |
| Weight | 0.175 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 | 10 A | | | | |
| operational current at AC-3 at 400 V rated value | 10 A | | | | |
| operating power at AC-3 | | | | | |
| • at 400 V rated value | 4 kW | | | | |
| • at 690 V rated value | 7.5 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 | N . | |
|--|---|--|--------------------------------|--|--|
| • at 110 V | | | 3.64 A | N Company of the Comp | |
| • 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 | ● 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: 20 A, Type-2 co-ordination | | |
| for short-circuit pr | for short-circuit protection of the auxiliary switch required | | fuse gG: 10 A | | |
| Installation/ mounting/ c | dimensions | | | | |
| mounting position | | 22.5° Inclination forward and backward & $\pm90^\circ$ rotation, in relation to normal vertical mounting plane | | | |
| fastening method | fastening method | | Contactor mounting | | |
| height | | | 64 mr | 64 mm | |
| width | | | 44 mr | n | |
| depth | | | 92 mm | | |
| Connections/ Terminals | | | | | |
| type of electrical conn | ection | | | | |
| for main current of | for main current circuit | | screw-type terminals | | |
| for auxiliary and control circuit | | screw-type terminals | | | |
| type of connectable con | ductor cross-sections for | main contacts | | | |
| solid or stranded | | 1x (1 6 mm²) | | | |
| finely stranded wi | ith 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 | f the connection screw | | | | |
| • for main contacts | | M4 | | | |
| of the auxiliary ar | nd 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 | |
| | | | | | |

CE

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 Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MU7110-0MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7110-0MA0

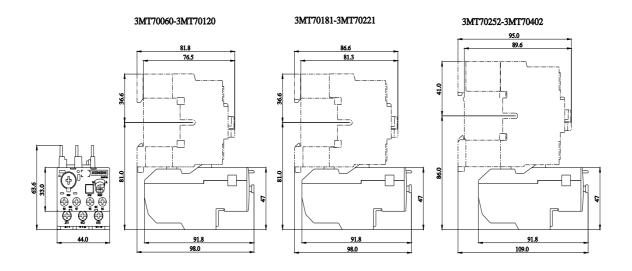
 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

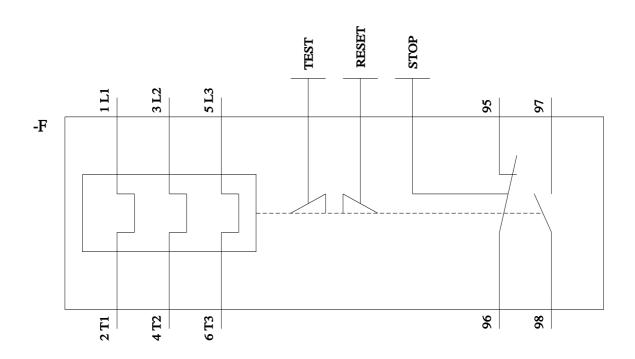
https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0MA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7110-0MA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3MU7110-0MA0/cha





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