

SIEMENS

Data sheet

3MT7038-2AA10-0AP0



3P Power Contactor AC3:38A 1NO AC230V 50Hz Main circuit: Screw Auxiliary circuit: Screw

| | |
|--|-----------------|
| product brand name | SINOVA |
| product designation | Power contactor |
| General technical data | |
| size of contactor | 2 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current at AC in hot operating state | 15.525 W |
| • per pole | 5.175 W |
| insulation voltage | |
| • of main circuit with degree of pollution 3 rated value | 1 000 V |
| • of auxiliary circuit with degree of pollution 3 rated value | 1 000 V |
| surge voltage resistance | |
| • of main circuit rated value | 6 kV |
| • of auxiliary circuit rated value | 6 kV |
| protection class IP | |
| • on the front | IP20 |
| mechanical service life (operating cycles) | |
| • of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibittance (Date) | 07/01/2022 |
| Weight | 0.538 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 |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage at AC-3 rated value maximum | 690 V |
| operational current | |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value | 50 A |
| • at AC-1 up to 690 V | |
| — at ambient temperature 40 °C rated value | 50 A |
| — at ambient temperature 60 °C rated value | 42 A |
| • at AC-3 | |
| — at 400 V rated value | 38 A |

| | |
|---|---|
| — at 690 V rated value | 18.2 A |
| operating power | |
| • at AC-3 | |
| — at 400 V rated value | 18.5 kW |
| — at 690 V rated value | 15 kW |
| no-load switching frequency | |
| • at AC | 1 800 1/h |
| operating frequency | |
| • at AC-1 maximum | 600 1/h |
| • at AC-3 maximum | 600 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 230 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.85 ... 1.1 |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 100 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.75 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 13 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.3 |
| • at 60 Hz | 0.3 |
| closing delay at AC | 12 ... 27 ms |
| opening delay at AC | 5 ... 22 ms |
| Auxiliary circuit | |
| number of NO contacts for auxiliary contacts | |
| • instantaneous contact | 1 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| • at 230 V rated value | 6 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| operational current at DC-12 | |
| • at 24 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 220 V rated value | 1 A |
| operational current at DC-13 | |
| • at 24 V rated value | 6 A |
| • at 110 V rated value | 1 A |
| • at 220 V rated value | 0.3 A |
| • at 600 V rated value | 0.1 A |
| Short-circuit protection | |
| design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | fuse gG: 63 A |
| — with type of coordination 2 required | fuse gG: 50 A |
| • for short-circuit protection of the auxiliary switch required | fuse gG: 10 A |
| mounting position | 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 83 mm |
| width | 56 mm |
| depth | 95 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| • 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 finely stranded with core end processing | 1x (1.5 ... 10 mm ²), 2x (1.5 ... 6 mm ²) 1x (1.5 ... 10 mm ²), 2x (1.5 ... 4 mm ²) |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing | 1x (1.5 ... 4 mm ²), 2x (1.5 ... 4 mm ²) 1x (1.5 ... 4 mm ²), 2x (1.5 ... 4 mm ²) |
| tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 1.85 N·m 1.85 N·m |
| design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts | M4 M4 |

| Approvals Certificates | | | |
|--------------------------|-------------------|-------|-------------|
| General Product Approval | Test Certificates | other | Environment |



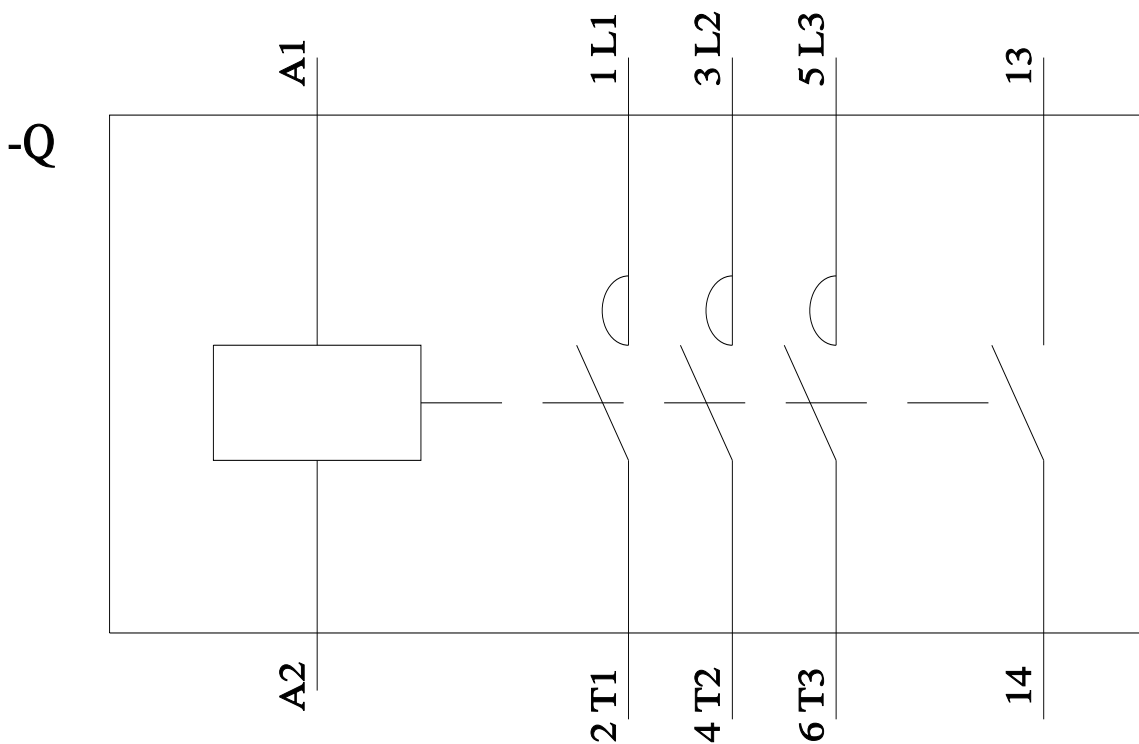
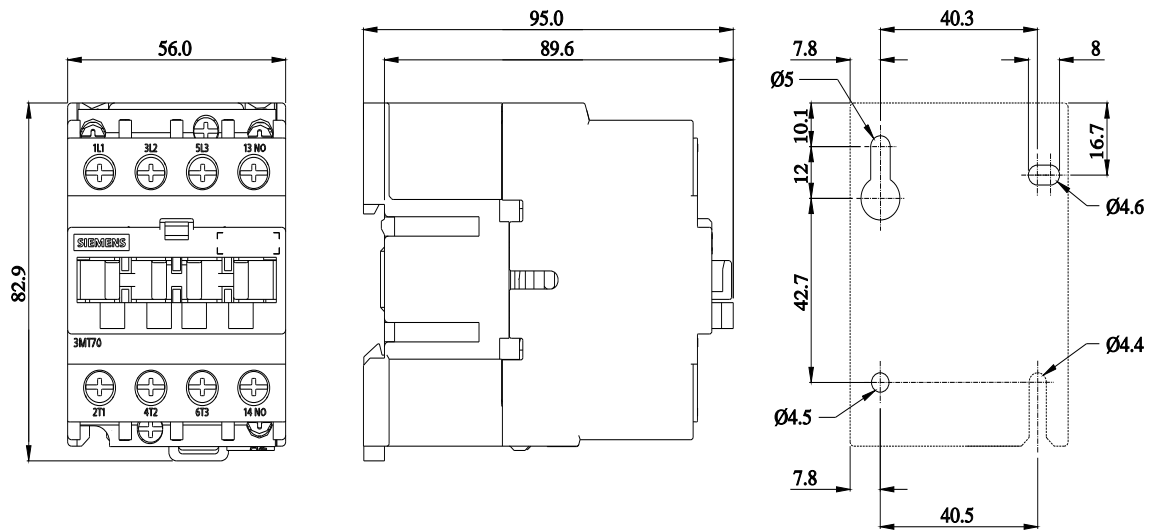
[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Confirmations](#)

Further information

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
 Information 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=3MT7038-2AA10-0AP0>
 Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7038-2AA10-0AP0>
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA10-0AP0>
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7038-2AA10-0AP0&lang=en
 Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA10-0AP0/char>
 Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7038-2AA10-0AP0&objecttype=14&gridview=view1>



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