SIEMENS

## Data sheet 3MT7080-4AA11-0AP0

3P Power Contactor AC3:80A 1NO+1NC AC230V 50Hz Main circuit: Screw Auxiliary circuit: Screw

| | |
|---|---|
| **product brand name** | SINOVA |
| **product designation** | Power contactor |
| **General technical data** | |
| **size of contactor** | 4 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current at AC in hot operating state | 40.96875 W |
| ● per pole | 13.65625 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 | 8 kV |
| ● of auxiliary circuit rated value | 6 kV |
| **protection class IP** | |
| ● on the front | IP20 |
| **mechanical service life (operating cycles)** | |
| ● of contactor typical | 3 000 000 |
| **reference code according to IEC 81346-2** | Q |
| **Substance Prohibitance (Date)** | 07/01/2022 |
| **Weight** | 1.32 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 | 125 A |
| ● at AC-1 up to 690 V | |
| — at ambient temperature 40 °C rated value | 125 A |
| — at ambient temperature 60 °C rated value | 93 A |
| ● at AC-3 | |
| — at 400 V rated value | 80 A |

| | |
|---|---|
| — at 690 V rated value | 47 A |
| **operating power** | |
| ● at AC-3 | |
| — at 400 V rated value | 37 kW |
| — at 690 V rated value | 45 kW |
| **no-load switching frequency** | |
| ● at AC | 1 200 1/h |
| **operating frequency** | |
| ● at AC-1 maximum | 600 1/h |
| ● at AC-3 maximum | 400 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 | 230 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 | 40 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 | 17 ... 38 ms |
| opening delay at AC | 5 ... 23 ms |
| **Auxiliary circuit** | |
| **number of NC contacts for auxiliary contacts** | |
| ● instantaneous contact | 1 |
| **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: 160 A |
| — with type of assignment 2 required | fuse gG: 125 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 or 75 mm standard mounting rail according to DIN EN 60715 |
| **height** | 127.5 mm |
| **width** | 84.5 mm |
| **depth** | 121.5 mm |

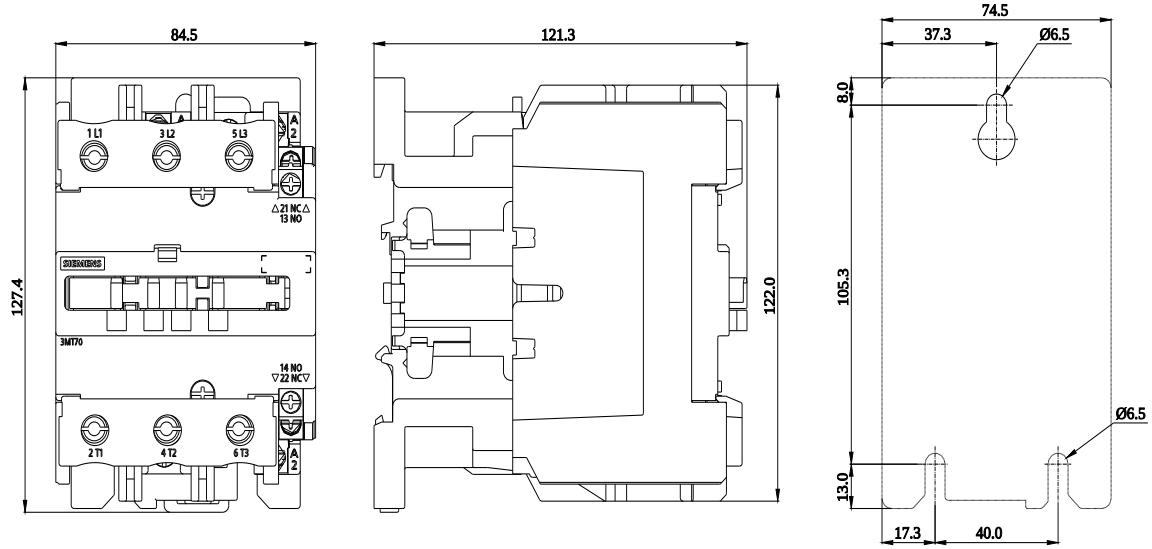
| Connections/ Terminals | |
|---|---|
| **type of electrical connection** | |
| ● for main current circuit | screw-type terminals |
| ● for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections for main contacts | |
| ● solid or stranded | 1x (4 ... 50 mm²), 2x (4 ... 35 mm²) |
| ● finely stranded with core end processing | 1x (4 ... 50 mm²), 2x (4 ... 16 mm²) |
| **type of connectable conductor cross-sections** | |
| ● for auxiliary contacts | |
| — solid or stranded | 1x (1 ... 4 mm²), 2x (1 ... 4 mm²) |
| — finely stranded with core end processing | 1x (1 ... 2.5 mm²), 2x (1 ... 1.5 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 |

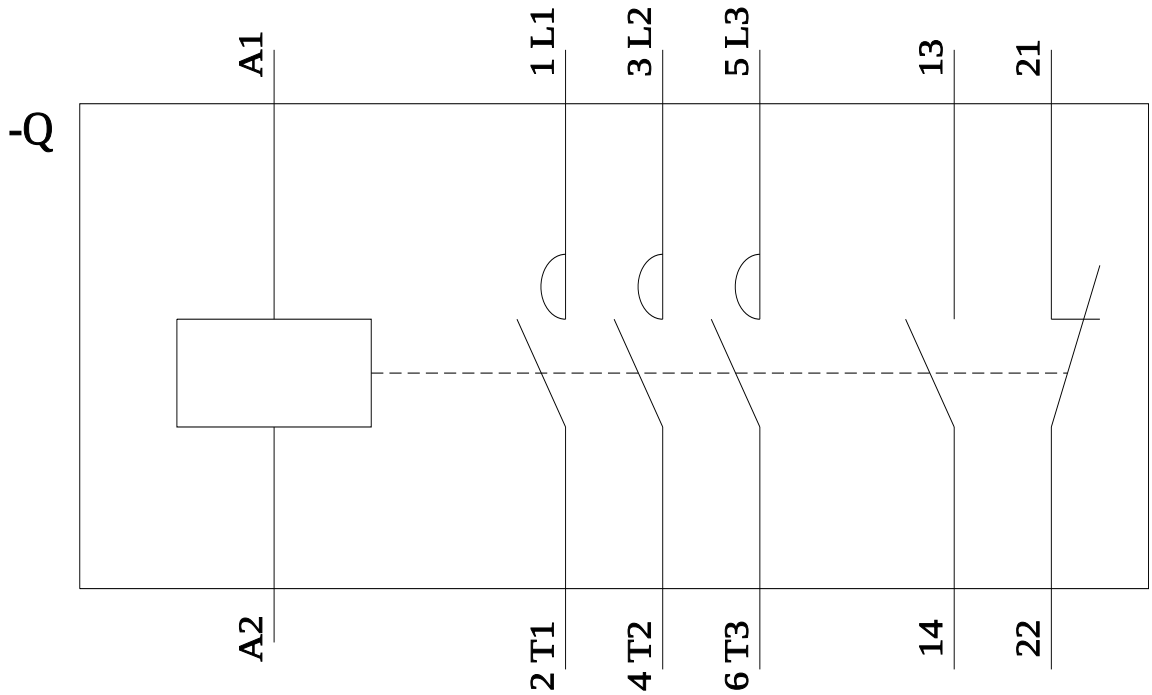
**Approvals Certificates**

| General Product Approval | Test Certificates | other | Environment |
|---|---|---|---|
| CE EG-Konf. | 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=3MT7080-4AA11-0AP0
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7080-4AA11-0AP0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3MT7080-4AA11-0AP0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7080-4AA11-0AP0&lang=en
**Characteristic: Tripping characteristics, I²t, Let-through current**
https://support.industry.siemens.com/cs/ww/en/ps/3MT7080-4AA11-0AP0/char
**Further characteristics (e.g. electrical endurance, switching frequency)**
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7080-4AA11-0AP0&objecttype=14&gridview=view1

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