3MT7006-0AA10-0AL2

Data sheet



3P Power Contactor AC3:6A 1NO AC230V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

| product brand name | SINOVA | | | |
|---|-----------------|--|--|--|
| product designation | Power contactor | | | |
| General technical data | | | | |
| size of contactor | 0 | | | |
| product extension auxiliary switch | Yes | | | |
| power loss [W] for rated value of the current at AC in hot operating state | 7.5 W | | | |
| • per pole | 2.5 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 Prohibitance (Date) | 07/01/2022 | | | |
| Weight | 0.354 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 | 25 A | | | |
| ● at AC-1 up to 690 V | | | | |
| at ambient temperature 40 °C rated value | 25 A | | | |
| at ambient temperature 60 °C rated value | 19 A | | | |
| • at AC-3 | | | | |
| — at 400 V rated value | 6 A | | | |

| — at 690 V rated value | 4 A |
|---|---|
| operating power | |
| • at AC-3 | |
| — at 400 V rated value | 2.2 kW |
| — at 690 V rated value | 3 kW |
| no-load switching frequency | |
| • at AC | 1 800 1/h |
| operating frequency | |
| • at AC-1 maximum | 600 1/h |
| • at AC-3 maximum | 750 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 |
| at 60 Hz rated value | 230 V |
| operating range factor control supply voltage rated value of | |
| magnet coil at AC | 0.05 4.4 |
| • at 50 Hz | 0.85 1.1 |
| • at 60 Hz | 0.85 1.1 |
| apparent pick-up power of magnet coil at AC • at 50 Hz | 80 VA |
| • at 60 Hz | 80 VA 80 VA |
| inductive power factor with closing power of the coil | OV VA |
| at 50 Hz | 0.75 |
| • at 60 Hz | 0.75 |
| apparent holding power of magnet coil at AC | 6.70 |
| • at 50 Hz | 12 VA |
| • at 60 Hz | 11 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 | 9 25 ms |
| opening delay at AC | 4 15 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 | 1A |
| operational current at DC-12 | |
| at 24 V rated value | 6 A |
| at 110 V rated value | 3 A |
| at 220 V rated value | 1A |
| operational current at DC-13 | CA |
| at 24 V rated value at 110 V rated value | 6.4 |
| at 110 V rated value at 220 V rated value | 1.4 |
| at 220 V rated value at 600 V rated value | 0.3 A |
| Short-circuit protection | 0.1 A |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| with type of coordination 1 required | fuse gG: 32 A |
| with type of coordination is required with type of assignment 2 required | fuse gG: 25 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 | 74.5 mm |
| | |

| width | | | | 45 mm | |
|--|-------------------------|--------------------------------|----------------------------|-------------|--|
| depth | | | 82 mr | n | |
| 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 (1 4 mm²), 2x (1 4 mm²) | | |
| finely stranded with core end processing | | 1x (1 4 mm²), 2x (1 1.5 mm²) | | | |
| type of connectable co | onductor cross-sections | 5 | | | |
| 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 | | 1.2 N·m | | | |
| for auxiliary contacts with screw-type terminals | | 1.2 N·m | | | |
| design of the thread of the connection screw | | | | | |
| for main contacts | | M3.5 | | | |
| of the auxiliary and control contacts | | M3.5 | | | |
| Approvals Certificates | | | | | |
| General Product Approval | Test Certificates | other | | Environment | |

proval

Type Test Certificates/Test Report

Confirmation

Environmental Con**firmations**

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7006-0AA10-0AL2}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7006-0AA10-0AL2

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

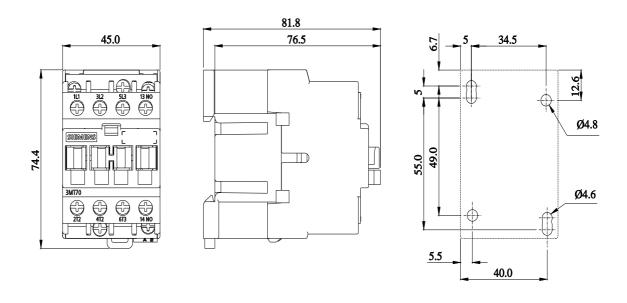
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7006-0AA10-0AL2&lang=en

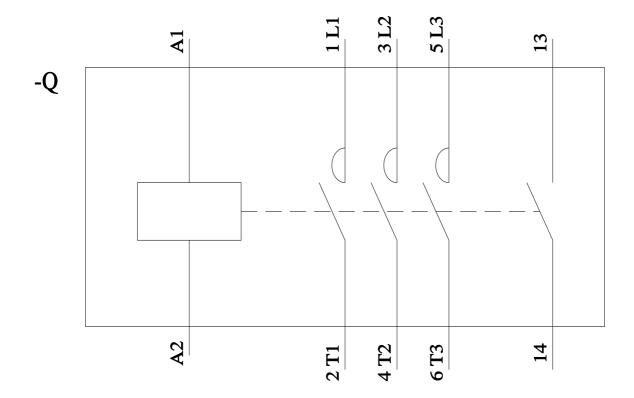
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA10-0AL2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7006-0AA10-0AL2&objecttype=14&gridview=view1





last modified: 2/24/2023 🖸

