



contactor, DC-3/DC-5, 400 A, 2-pole, 72 V DC, auxiliary contacts: 4 NO + 4 NC, connecting bar

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| product designation | Contactor |
| product type designation | 3TC |
| General technical data | |
| size of contactor | 12 |
| product extension | |
| • function module for communication | No |
| • auxiliary switch | No |
| insulation voltage rated value | 1 500 V |
| surge voltage resistance rated value | 8 kV |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 630 V |
| mechanical service life (operating cycles) | |
| • of contactor typical | 30 000 000 |
| • of the contactor with added auxiliary switch block typical | 30 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 03/01/2017 |
| SVHC substance name | Lead - 7439-92-1 |
| Weight | 20 kg |
| Ambient conditions | |
| ambient temperature | |
| • during operation | -25 ... +55 °C |
| • during storage | -50 ... +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |
| number of poles | 2 |
| number of poles for main current circuit | 2 |
| number of NO contacts for main contacts | 2 |
| number of NC contacts for main contacts | 0 |
| type of voltage | DC |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 500 A |
| — at 110 V rated value | 500 A |
| — at 220 V rated value | 500 A |
| — at 440 V rated value | 500 A |
| — at 600 V rated value | 500 A |
| — at 750 V rated value | 500 A |

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| <ul style="list-style-type: none"> instantaneous contact | 4 |
| number of NO contacts for auxiliary contacts | 4 |
| <ul style="list-style-type: none"> instantaneous contact | 4 |
| number of CO contacts for auxiliary contacts | 0 |
| identification number and letter for switching elements | 44 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| <ul style="list-style-type: none"> at 230 V rated value | 5.6 A |
| <ul style="list-style-type: none"> at 400 V rated value | 3.6 A |
| <ul style="list-style-type: none"> at 500 V rated value | 2.5 A |
| operational current at DC-12 | |
| <ul style="list-style-type: none"> at 24 V rated value | 10 A |
| <ul style="list-style-type: none"> at 48 V rated value | 10 A |
| <ul style="list-style-type: none"> at 60 V rated value | 10 A |
| <ul style="list-style-type: none"> at 110 V rated value | 3.2 A |
| <ul style="list-style-type: none"> at 125 V rated value | 2.5 A |
| <ul style="list-style-type: none"> at 220 V rated value | 0.9 A |
| <ul style="list-style-type: none"> at 600 V rated value | 0.22 A |
| operational current at DC-13 | |
| <ul style="list-style-type: none"> at 24 V rated value | 10 A |
| <ul style="list-style-type: none"> at 48 V rated value | 5 A |
| <ul style="list-style-type: none"> at 60 V rated value | 5 A |
| <ul style="list-style-type: none"> at 110 V rated value | 1.14 A |
| <ul style="list-style-type: none"> at 125 V rated value | 0.98 A |
| <ul style="list-style-type: none"> at 220 V rated value | 0.48 A |
| <ul style="list-style-type: none"> at 600 V rated value | 0.07 A |
| Short-circuit protection | |
| design of the fuse link | |
| <ul style="list-style-type: none"> for short-circuit protection of the main circuit <ul style="list-style-type: none"> with type of coordination 1 required with type of coordination 2 required | 2 x 3NE1330-5E (315 A) parallel (1500 V, 12 kA) 2 x 3NE1330-5E (315 A) parallel (1500 V, 12 kA) |
| <ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch required | gG: 16 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method side-by-side mounting | Yes |
| fastening method | screw fixing |
| height | 375 mm |
| width | 160 mm |
| depth | 290 mm |
| required spacing | |
| <ul style="list-style-type: none"> with side-by-side mounting <ul style="list-style-type: none"> forwards backwards upwards downwards at the side | 20 mm 0 mm 25 mm 10 mm 10 mm |
| <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> forwards backwards upwards at the side downwards | 50 mm 0 mm 25 mm 10 mm 10 mm |
| <ul style="list-style-type: none"> for live parts <ul style="list-style-type: none"> forwards backwards upwards downwards at the side | 50 mm 0 mm 25 mm 10 mm 10 mm |

| Connections/ Terminals | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| type of electrical connection | screw terminal |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit | screw-type terminals screw-type terminals |
| 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 | 2x (1 ... 2.5 mm ²) 2x (0.75 ... 1.5 mm ²) |

| Safety related data | |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| product function mirror contact according to IEC 60947-4-1 | Yes; 1 auxiliary NC contact each of the right and left current path must be connected in series |

| Electrical Safety | |
|----------------------------------------------------------------|------|
| protection class IP on the front according to IEC 60529 | IP00 |

| Approvals Certificates | | |
|--------------------------|-------------------|-------------------|
| General Product Approval | Functional Safety | Test Certificates |



[Type Examination Certificate](#)

[Miscellaneous](#)

[Special Test Certificate](#)

| other | Dangerous goods | Environment |
|-------|-----------------|-------------|
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[Confirmation](#)

[Transport Information](#)

[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=3TC7814-0EY80-0AB6>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TC7814-0EY80-0AB6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TC7814-0EY80-0AB6>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TC7814-0EY80-0AB6&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3TC7814-0EY80-0AB6/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TC7814-0EY80-0AB6&objecttype=14&gridview=view1>



