3RK1301-1AB00-0AA2

Data sheet



DS1-X for ET 200S Standard DOL starter expandable Setting range 1.1...1.6 A AC-3, 0.55 kW / 400 V Electromechanical starter for brake control module

| product brand name | SIMATIC |
|--|---|
| product designation | Motor starters |
| design of the product | direct starter |
| product type designation | ET 200S |
| General technical data | |
| product function on-site operation | Yes |
| insulation voltage rated value | 500 V |
| degree of pollution | 3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for protective separation between main and auxiliary circuit | 400 V |
| shock resistance | 5g / 11 ms |
| vibration resistance | 2g |
| operating frequency maximum | 750 1/h |
| mechanical service life (operating cycles) of the main contacts typical | 100 000 |
| type of assignment | 2 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/26/2016 |
| product function | |
| direct start | Yes |
| reverse starting | No |
| product component motor brake output | Yes |
| product feature | |
| brake control with 230 V AC | No |
| brake control with 24 V DC | No |
| brake control with 180 V DC | No |
| brake control with 500 V DC | No |
| product extension braking module for brake control | Yes |
| product function short circuit protection | Yes |
| design of short-circuit protection | circuit-breakers |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 400 V rated value | 50 kA |
| Electromagnetic compatibility | |
| EMC emitted interference according to IEC 60947-1 | CISPR11, ambience A (industrial sector) |
| EMC immunity according to IEC 60947-1 | corresponds to degree of severity 3, ambience A (industrial sector) |
| conducted interference | |
| due to burst according to IEC 61000-4-4 | 2 kV on voltage supply, inputs and outputs |
| due to conductor-earth surge according to IEC 61000-4-5 | 2 kV (U > 24 V DC) |
| due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV (U > 24 V DC) |

| field-based interference according to IEC 61000-4-3 | 80 MHz 1 CHz 10 V/m 1 4 CHz 2 Hz 2 V/m 2 CHz 2 7 CHz 4 V/m |
|--|---|
| Safety related data | 80 MHz 1 GHz 10 V/m, 1.4 GHz2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures | 1 000 000 |
| with low demand rate according to SN 31920 | 50 % |
| with high demand rate according to SN 31920 with high demand rate according to SN 31920 | 75 % |
| | 13 % |
| failure rate [FIT] | 100 FIT |
| with low demand rate according to SN 31920 water time class IP on the front according to IFC 60520. | 100 FIT |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe |
| Main circuit | |
| number of poles for main current circuit | 3 |
| design of the switching contact | electromechanical |
| adjustable current response value current of the current- dependent overload release | 1.1 1.6 A |
| type of the motor protection | bimetal |
| operating voltage rated value | 200 400 V |
| operating frequency 1 rated value | 50 Hz |
| operating frequency 2 rated value | 60 Hz |
| relative positive tolerance of the operating frequency | 10 % |
| relative negative tolerance of the operating frequency | 10 % |
| operating range relative to the operating voltage at AC at 50 Hz | 200 440 V |
| operational current | |
| at AC-3 at 400 V rated value | 1.6 A |
| operating power at AC-3 at 400 V rated value | 0.55 kW |
| operating power for 3-phase motors at 400 V at 50 Hz | 0.55 0.55 kW |
| Inputs/ Outputs | |
| product function | |
| digital inputs parameterizable | No |
| digital outputs parameterizable | No |
| number of digital inputs | 0 |
| number of sockets | |
| • for digital output signals | 0 |
| for digital input signals | 0 |
| Supply voltage | |
| type of voltage of the supply voltage | DC |
| supply voltage 1 at DC | 24 24 V |
| supply voltage 1 at DC rated value | |
| minimum permissible | 20.4 V |
| maximum permissible | 28.8 V |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | DC |
| control supply voltage at DC rated value | 20.4 28.8 V |
| control supply voltage 1 | |
| at DC rated value | 20.4 28.8 V |
| • at DC | 24 24 V |
| power loss [W] in auxiliary and control circuit | |
| • in switching state OFF | |
| — with bypass circuit | 0.3744 W |
| with bypass circuit - without bypass circuit | 0.374 W |
| in switching state ON | 0.01 1 11 |
| with bypass circuit | 4.1184 W |
| with bypass circuit — without bypass circuit | 4.118 W |
| Installation/ mounting/ dimensions | 7.110 17 |
| - | vertical horizontal |
| mounting position | vertical, horizontal |
| fastening method | pluggable on terminal module |
| height | 265 mm |
| width | 45 mm |
| depth | 120 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |

| ambient temperature | |
|--|----------------------|
| during operation | 0 60 °C |
| during storage | -40 +70 °C |
| during transport | -40 +70 °C |
| relative humidity during operation | 5 95 % |
| Communication/ Protocol | |
| protocol is supported | |
| PROFIBUS DP protocol | Yes |
| PROFINET protocol | Yes |
| design of the interface PROFINET protocol | Yes |
| product function bus communication | Yes |
| protocol is supported AS-Interface protocol | No |
| product function | |
| supports PROFlenergy measured values | No |
| supports PROFlenergy shutdown | No |
| address space memory of address range | |
| of the inputs | 1 byte |
| of the outputs | 1 byte |
| type of electrical connection | |
| of the communication interface | via backplane bus |
| for communication transmission | via backplane bus |
| Connections/ Terminals | |
| type of electrical connection for main current circuit | screw-type terminals |
| type of electrical connection | |
| 1 for digital input signals | using control module |
| 2 for digital input signals | using control module |
| type of electrical connection | |
| at the manufacturer-specific device interface | plug |
| for main energy infeed | screw-type terminals |
| for load-side outgoing feeder | Screw-type terminals |
| for main energy transmission | via energy bus |
| for supply voltage line-side | via backplane bus |
| for supply voltage transmission | via backplane bus |
| UL/CSA ratings | |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 600 V |
| Certificates/ approvals | |
| | |

General Product Approval







Confirmation







For use in hazardous locations

Declaration of Conformity

other

Dangerous Good







Confirmation

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

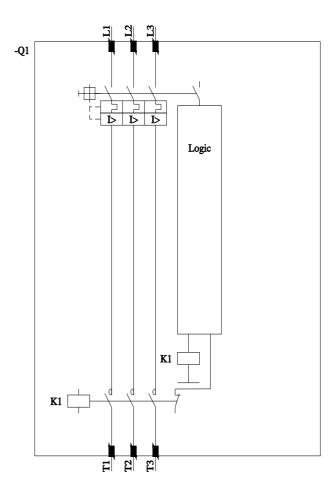
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1AB00-0AA2

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RK1301-1AB00-0AA2}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1AB00-0A

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1AB00-0AA2&lang=en



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