SIEMENS

## Data sheet 3RK1301-1BB00-0AA2



Figure similar

DS1-X for ET 200S Standard DOL starter expandable Setting range 1.4...2 A AC-3, 0.75 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 |
| **power loss [W] for rated value of the current** | |
| ● at AC in hot operating state | 10 W |
| ● at AC in hot operating state per pole | 3.33 W |
| ● without load current share typical | 4.12 W |
| **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** | 5 g / 11 ms |
| **vibration resistance** | 2 g |
| **operating frequency maximum** | 750 1/h |
| mechanical service life (operating cycles) of the main contacts typical | 100 000 |
| **type of coordination** | 2 |
| **reference code according to IEC 81346-2** | Q |
| **Substance Prohibitance (day/month/year)** | 10/26/2016 |
| **SVHC substance name** | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1 |
| **Net Weight** | 758.967 g |
| **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 |


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| | |
|---|---|
| **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 GHz 10 V/m, 1.4 GHz ...2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m |
| **Safety related data** | |
| **proportion of dangerous failures** | |
| ● **with low demand rate according to SN 31920** | 50 % |
| ● **with high demand rate according to SN 31920** | 75 % |
| **B10 value with high demand rate according to SN 31920** | 1 000 000 |
| **failure rate [FIT] with low demand rate according to SN 31920** | 100 FIT |
| IEC 61508 | |
| **T1 value for proof test interval or service life according to IEC 61508** | 20 a |
| Electrical Safety | |
| **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** | 1.4 ... 2 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 | 2 A |
| operating power at AC-3 at 400 V rated value | 0.75 kW |
| operating power for 3-phase motors at 400 V at 50 Hz | 0.75 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 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 |
| **control supply voltage 1 at DC** | 24 V |


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| | |
|---|---|
| **power loss [W] in auxiliary and control circuit** | |
| **● in switching state OFF** | |
| — with bypass circuit | 0.3744 W |
| — without bypass circuit | 0.374 W |
| **● in switching state ON** | |
| — with bypass circuit | 4.1184 W |
| — without bypass circuit | 4.118 W |
| **Installation/ mounting/ dimensions** | |
| **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 PROFIenergy measured values | No |
| ● supports PROFIenergy 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 terminal |
| ● 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 |
| **Approvals Certificates** | |

| **General Product Approval** | **EMV** |
|---|---|

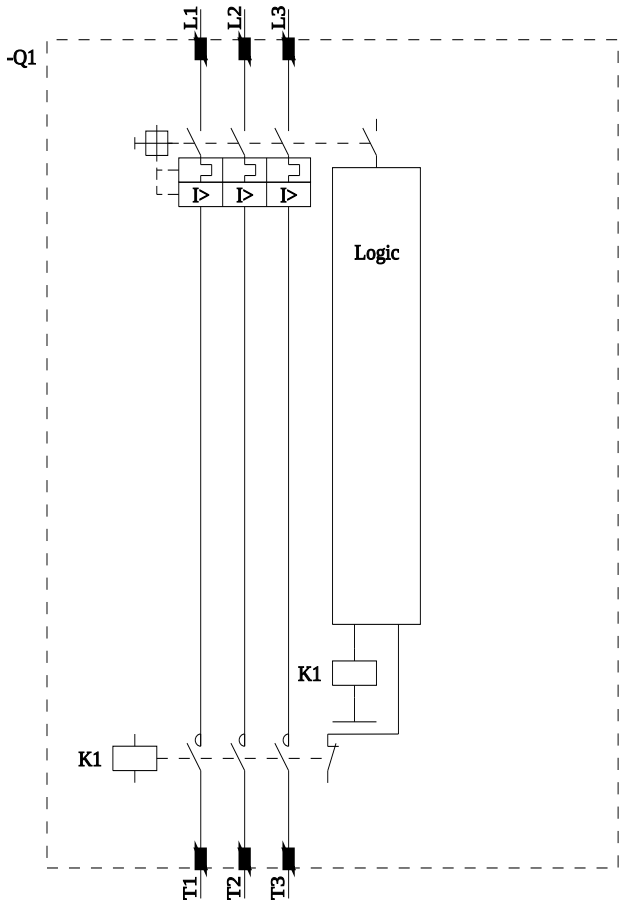

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| For use in hazardous locations | Test Certificates | other | Dangerous goods |
|---|---|---|---|
| ATEX EG-Konf. | Type Test Certific-ates/Test Report | 产品合格 QC PASS Confirmation | Transport Information |

| Environment |
|---|
| Environmental Con-firmations |

## 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=3RK1301-1BB00-0AA2
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1BB00-0AA2
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1BB00-0AA2
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1BB00-0AA2&lang=en
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**last modified:** 7/22/2026


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