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## Data sheet 3RK1308-0AA00-0CP0



Direct-on-line starter High Feature; Electronic switching; Electronic overload protection up to 0.09 kW / 400 V; Adjustment range 0.1 .. 0.4 A; PROFIenergy; Option: 3DI/LC module

| | |
|---|---|
| **product brand name** | SIMATIC |
| **product category** | Motor starter |
| **product designation** | Direct-on-line starter |
| **product type designation** | ET 200SP |
| **General technical data** | |
| **equipment version according to IEC 60947-4-2** | 3 |
| **product function** | Direct-on-line starter |
| ● on-site operation | Yes |
| ● intrinsic device protection | Yes |
| ● remote firmware update | Yes |
| ● for power supply reverse polarity protection | Yes |
| **power loss [W] for rated value of the current** | |
| ● at AC in hot operating state per pole | 0 W |
| **insulation voltage rated value** | 500 V |
| **degree of pollution** | 2 |
| **overvoltage category** | III |
| **surge voltage resistance rated value** | 6 kV |
| **maximum permissible voltage for protective separation** | |
| ● between main and auxiliary circuit | 500 V |
| consumed current maximum | 140 mA |
| **shock resistance** | 6 g / 11 ms |
| **vibration resistance** | 15 mm to 6 Hz; 2 g to 500 Hz |
| **operating frequency maximum** | 1 1/s |
| mechanical service life (operating cycles) of the main contacts typical | 30 000 000 |
| **type of coordination** | 1 |
| **utilization category** | |
| ● according to IEC 60947-4-2 | AC-53a: 0,4 A: (8-0,7: 70-32) |
| ● according to IEC 60947-4-3 | AC-51: 0,4 A: (1,2-10: 50-360) |
| **reference code according to IEC 81346-2** | Q |
| **Substance Prohibitance (day/month/year)** | 04/15/2016 |
| **SVHC substance name** | Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| **Net Weight** | 0.413 kg |
| **product function** | |
| ● direct start | Yes |
| ● reverse starting | No |
| **product component motor brake output** | No |
| **product function short circuit protection** | Yes |
| **design of short-circuit protection** | fuse |


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| | |
|---|---|
| **maximum short-circuit current breaking capacity (Icu)** | |
| ● at 400 V rated value | 55 kA |
| ● at 500 V rated value | 55 kA |
| ● at 500 V according to UL 60947 rated value | 100 kA |
| **maximum short-circuit current breaking capacity (Icu) in the IT network** | |
| ● at 400 V rated value | 55 kA |
| ● at 500 V rated value | 55 kA |
| **Electromagnetic compatibility** | |
| EMC emitted interference according to IEC 60947-1 | class A |
| EMC immunity according to IEC 60947-1 | Class A |
| **conducted interference** | |
| ● due to burst according to IEC 61000-4-4 | 2 kV |
| ● due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| ● due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| ● due to high-frequency radiation according to IEC 61000-4-6 | Class A |
| **field-based interference according to IEC 61000-4-3** | 10 V/m |
| **electrostatic discharge according to IEC 61000-4-2** | 8 kV air discharge |
| **conducted HF interference emissions according to CISPR11** | Class A for industrial environment |
| **field-bound HF interference emission according to CISPR11** | Class A for industrial environment |
| **Safety related data** | |
| **MTBF** | 48 a |
| Electrical Safety | |
| **touch protection against electrical shock** | finger-safe |
| **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** | Hybrid |
| **adjustable current response value current of the current-dependent overload release** | 0.1 ... 0.4 A |
| **minimum load [%]** | 50 %; from smallest adjustable rated current |
| **type of the motor protection** | solid-state |
| operating voltage rated value | 48 ... 500 V |
| **relative symmetrical tolerance of the operating voltage** | 10 % |
| **operating frequency 1 rated value** | 50 Hz |
| **operating frequency 2 rated value** | 60 Hz |
| **relative symmetrical tolerance of the operating frequency** | 5 % |
| **relative positive tolerance of the operating frequency** | 5 % |
| **relative negative tolerance of the operating frequency** | 5 % |
| operational current at AC at 400 V rated value | 0.4 A |
| **ampacity when starting maximum** | 4 A |
| operating power for 3-phase motors at 400 V at 50 Hz | 0.06 ... 0.12 kW |
| **Inputs/ Outputs** | |
| **number of digital inputs** | 4 |
| ● note | 4 via 3DI/LC module |
| **address space memory of address range** | |
| ● of the inputs | 4 byte |
| ● of the outputs | 2 byte |
| **Supply voltage** | |
| **type of voltage of the supply voltage** | DC |
| **supply voltage 1 at DC rated value** | |
| ● minimum permissible | 20.4 V |
| ● maximum permissible | 28.8 V |
| **supply voltage at DC rated value** | 24 V |
| **consumed current for rated value of supply voltage** | |
| ● in standby mode of operation | 50 mA |


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| | |
|---|---|
| ● during operation | 50 mA |
| ● at switching on of motor | 140 mA |
| **power loss [W] for rated value of supply voltage** | |
| ● in switching state OFF with bypass circuit | 1.2 W |
| ● in switching state ON with bypass circuit | 3.4 W |
| inrush current peak at 24 V | 25 A; Observe the manual for group configuration |
| duration of inrush current peak at 24 V | 0.14 ms |
| **Response times** | |
| **ON-delay time** | 20 ms |
| **OFF-delay time** | 35 ... 50 ms |
| **Power Electronics** | |
| **operational current** | |
| ● at 40 °C rated value | 0.4 A |
| ● at 50 °C rated value | 0.4 A |
| ● at 55 °C rated value | 0.4 A |
| ● at 60 °C rated value | 0.4 A |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | Vertical, horizontal (observe derating) |
| **fastening method** | pluggable in BaseUnit |
| **height** | 142 mm |
| **width** | 30 mm |
| **depth** | 150 mm |
| required spacing with side-by-side mounting | |
| ● upwards | 50 mm |
| ● downwards | 50 mm |
| **Ambient conditions** | |
| installation altitude at height above sea level maximum | 4 000 m |
| **ambient temperature** | |
| ● during operation | -25 ... +60 °C; For derating see manual |
| ● during storage | -40 ... +70 °C |
| ● during transport | -40 ... +70 °C |
| environmental category during operation according to IEC 60721 | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) |
| relative humidity during operation | 10 ... 95 % |
| air pressure according to SN 31205 | 900 ... 1 060 hPa |
| **Communication/ Protocol** | |
| **protocol is supported** | |
| ● PROFIBUS DP protocol | Yes |
| ● PROFINET protocol | Yes |
| **product function bus communication** | Yes |
| protocol is supported AS-Interface protocol | No |
| **product function** | |
| ● supports PROFIenergy measured values | Yes |
| ● supports PROFIenergy shutdown | Yes |
| type of electrical connection of the communication interface | Plug contact to Base Unit |
| **Connections/ Terminals** | |
| **type of electrical connection** | |
| ● 1 for digital input signals | Pluggable module - accessory |
| **type of electrical connection** | |
| ● for main energy infeed | Plug contact to Base Unit |
| ● for load-side outgoing feeder | Plug contact to Base Unit |
| ● for supply voltage line-side | Plug contact to Base Unit |
| **wire length for motor unshielded maximum** | 200 m |
| **UL/CSA ratings** | |
| full-load current (FLA) for 3-phase AC motor at 480 V rated value | 0.4 A |
| current with locked rotor (LRA) for 3-phase AC motor at 480 V rated value | 3 A |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 480 V |


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## Approvals Certificates

| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| CCC | cULus | EAC | CE EG-Konf. | UKCA | KC |

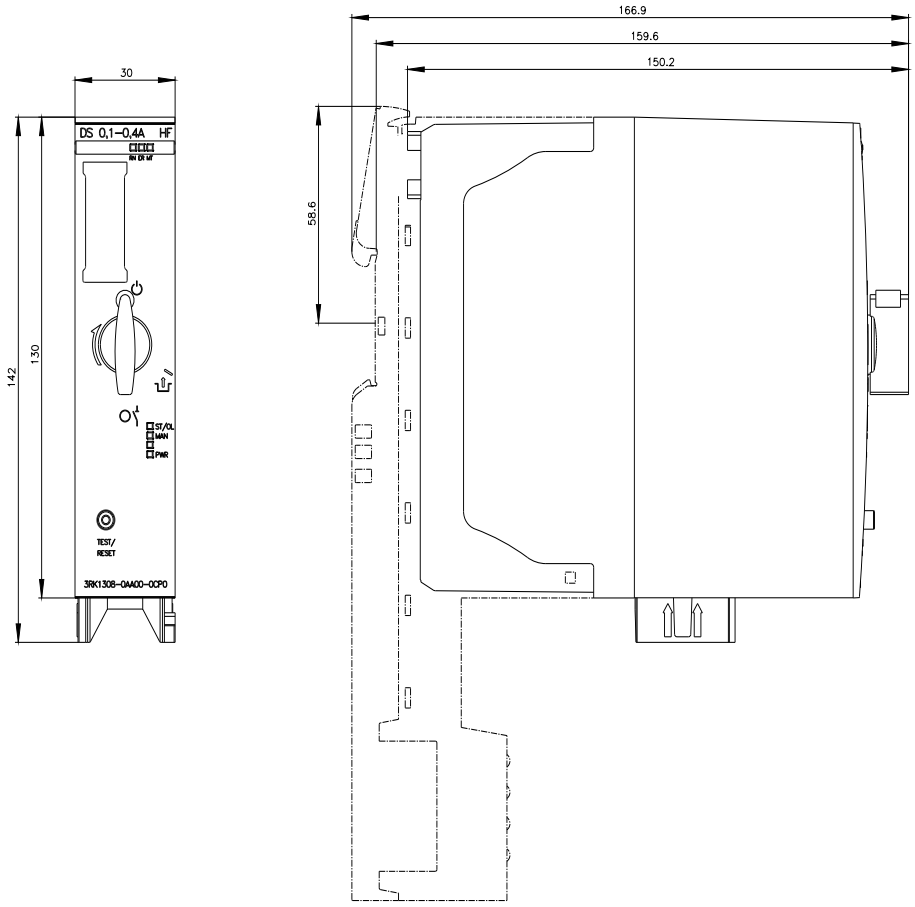
| EMV | Test Certificates | Maritime application | | | |
|---|---|---|---|---|---|
| RCM | Type Test Certificates/Test Report | ABS | BUREAU VERITAS | DNV | Lloyd's Register LRS |

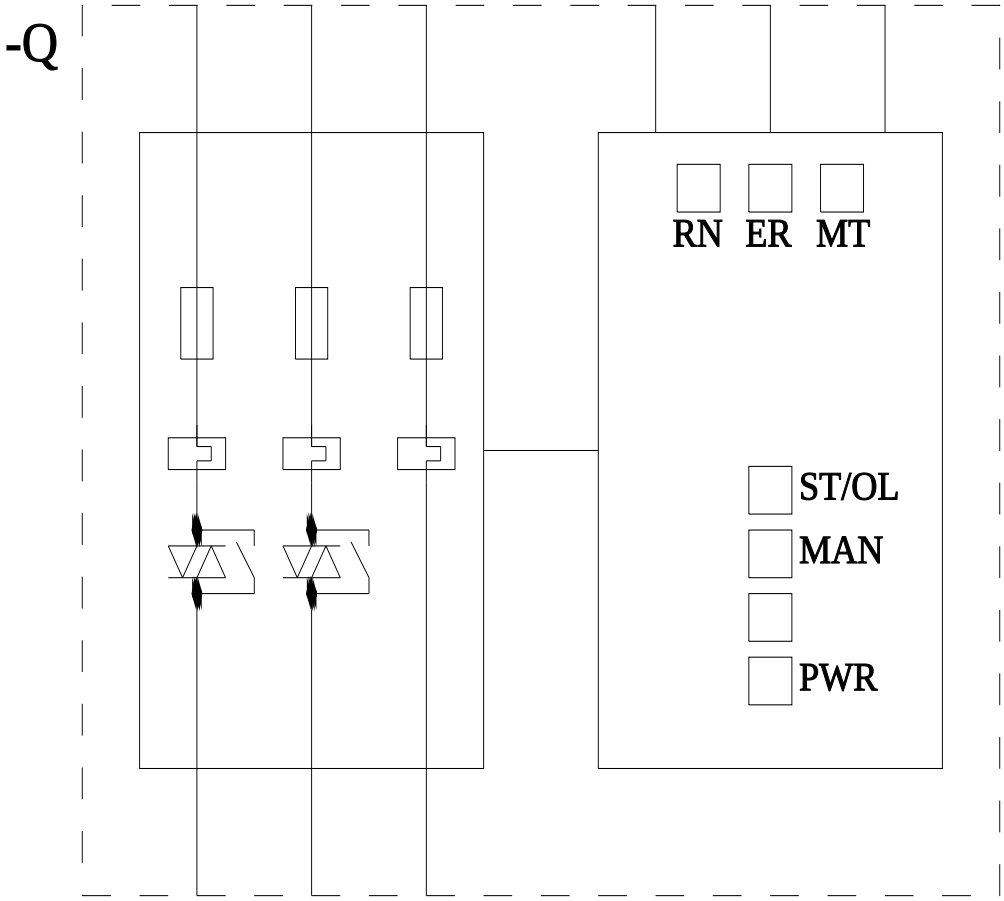
| other | | Dangerous goods | Environment | Industrial Communication |
|---|---|---|---|---|
| Confirmation | 产品合格 QC PASS | Transport Information | Environmental Confirmations | Profibus |

## 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=3RK1308-0AA00-0CP0
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AA00-0CP0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AA00-0CP0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AA00-0CP0&lang=en
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