SIEMENS

Data sheet

3RK1301-0BB13-0AA2



F-DS1E-X for ET 200S Fail-safe DOL starter Setting range 2.4...8 A Mechanical switching Electronic protection AC-3, up to 3 kW / 400 V expandable for brake control module for 2DI 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 | 80 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) | | |

| Safety rolated data safe y device type according to EC 61508-2 Type B safe state Load circuit open SIL Claim Limit (subsystem) according to EN 82061 SILCL 3 performance level (PL) according to EN 1800 13849-1 4 stop category according to EN 82024-1 0 overage diagnostic coverage level (CoLvg) 90 % PFHD with high demand rate according to EN 82081 1.8E-9 1/h failure rate [FT] • at rate of recognizable hazardous failures (Adu) 25 FTT • at rate of non-recognizable hazardous failures (Adu) 25 FTT Safe failure fraction (SFF) 99.5 % PFDavg with low demand rate according to IEC 61508 8E-5 Average aprobability of failure on demand (FEDavg) with low 8E-5 1/y MTBF 14 a Introduct on the front according to IEC 60529 fip20 forcinit 3 a adgistable current response value current of the current-dependent value 3 operating frequency 1 rated value 24 & A operating frequency 1 rated value 30/L operating frequency 1 rated value 60/Hz operating frequency 1 rated value 60/Hz operating reletive | field-based interference according to IEC 61000-4-3 | 80 MHz 1 GHz 10 V/m, 1.4 GHz2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m |
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| number of socketsImage: control supply voltage• for digital output signals0• for digital input signals0Supply voltage0Supply voltageDCsupply voltage 1 at DC24 24 Vsupply voltage 1 at DC rated value20.4 V• minimum permissible20.4 V• maximum permissible28.8 VControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC rated value21.6 26.4 Vcontrol supply voltage 121.6 26.4 V• at DC rated value21.6 26.4 V• at DC24 24 VInstallation/ mounting/ dimensionsVertical, horizontal | | 2 |
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| type of voltage of the supply voltage DC supply voltage 1 at DC 24 24 V supply voltage 1 at DC rated value 20.4 V • minimum permissible 20.4 V • maximum permissible 28.8 V Control circuit/ Control 21.6 26.4 V control supply voltage 1 21.6 26.4 V • at DC rated value 21.6 26.4 V • at DC rated value 24 24 V | Supply voltage | |
| supply voltage 1 at DC 24 24 V supply voltage 1 at DC rated value 20.4 V e minimum permissible 20.4 V e maximum permissible 28.8 V Control circuit/ Control 21.6 26.4 V control supply voltage at DC rated value 21.6 26.4 V control supply voltage 1 21.6 26.4 V e at DC rated value 21.6 26.4 V mounting/ dimensions 24 24 V | | DC |
| supply voltage 1 at DC rated value 20.4 V • minimum permissible 20.4 V • maximum permissible 28.8 V Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC rated value 21.6 26.4 V outrol supply voltage 1 0 • at DC rated value 21.6 26.4 V • at DC 24 24 V Installation/ mounting/ dimensions vertical, horizontal | | |
| • minimum permissible 20.4 V • maximum permissible 28.8 V Control circuit/ Control 28.8 V Control circuit/ Control DC control supply voltage at DC rated value 21.6 26.4 V control supply voltage 1 • at DC rated value • at DC 21.6 26.4 V • at DC 24 24 V | | |
| • maximum permissible 28.8 V Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC rated value 21.6 26.4 V control supply voltage 1 21.6 26.4 V • at DC rated value 21.6 26.4 V • at DC 24 24 V | | 20.4 V |
| Control circuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC rated value 21.6 26.4 V control supply voltage 1 21.6 26.4 V • at DC rated value 21.6 26.4 V • at DC 24 24 V Installation/ mounting/ dimensions vertical, horizontal | | |
| type of voltage of the control supply voltage DC control supply voltage at DC rated value 21.6 26.4 V control supply voltage 1 21.6 26.4 V • at DC rated value 21.6 26.4 V • at DC 24 24 V Installation/ mounting/ dimensions vertical, horizontal | · · · | |
| control supply voltage at DC rated value 21.6 26.4 V control supply voltage 1 21.6 26.4 V • at DC rated value 21.6 26.4 V • at DC 24 24 V Installation/ mounting/ dimensions vertical, horizontal | | |
| control supply voltage 1 21.6 26.4 V • at DC rated value 21.6 26.4 V • at DC 24 24 V Installation/ mounting/ dimensions vertical, horizontal | | |
| | | 21.0 20.4 V |
| • at DC 24 24 V Installation/ mounting/ dimensions mounting position vertical, horizontal | | 21.6 26.4 \/ |
| Installation/ mounting/ dimensions mounting position vertical, horizontal | | |
| mounting position vertical, horizontal | | 24 24 V |
| | | |
| fastening method pluggable on terminal module | | |
| | fastening method | pluggable on terminal module |

| height | 290 mm | | |
|--|---|-------|-----------------------|
| width | 65 mm | | |
| depth | 150 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 | 0 | | |
| | | | |
| protocol is supported | Yes | | |
| PROFIBUS DP protocol | | | |
| PROFINET protocol | Yes | | |
| design of the interface PROFINET protocol | Yes | | |
| product function bus communication | Yes | | |
| protocol is supported AS-Interface protocol | No | | |
| address space memory of address range | | | |
| of the inputs | 2 byte | | |
| of the outputs | 2 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 | via backpiane bus | | |
| | 000.14 | | |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 600 V | | |
| Certificates/ approvals | | | |
| General Product Approval | | | EMC |
| | | | |
| <u>Confirmation</u> | | | A |
| (39) (0 | (ŲL) (∑ | FHI | ΛA. |
| | | LIIL | ECM SCH |
| | | | 10410 |
| | | | |
| Functional | | | |
| Safety/Safety of Ma- Declaration of Conformity | Test Certificates | other | Dangerous Good |
| chinery | | | |
| | | | _ |
| <u>Type Examination Cer-</u> tificate | Type Test Certificates/Test Repo | | Transport Information |
| | | Ц | |
| EG-Konf. | IK <u>Type Test Certifi</u> ates/Test Repo | | |
| _ | - | | |
| | | | |
| Further information | | | |
| Siemens has decided to exit the Russian market (see her | | | |
| bette subset of a second of the subset of th | ind down muching husings | | |

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 Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-0BB13-0AA2 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0BB13-0AA2 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0BB13-0AA2 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0BB13-0AA2&lang=en

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