3RK1308-0BD00-0CP0

Data sheet



Reversing starter High Feature; Electronic switching; Electronic overload protection up to 4 kW / 400 V; Adjustment range 2.8 .. 9 A; PROFlenergy; Option: 3DI/LC module

| product brand name | SIMATIC |
|---|-------------------------------|
| product category | Motor starter |
| product designation | Reversing starter |
| product type designation | ET 200SP |
| General technical data | |
| trip class | CLASS OFF / 5 / 10 adjustable |
| equipment variant acc. to IEC 60947-4-2 | 3 |
| product function | Reversing 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 | 1.7 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 safe isolation | |
| between main and auxiliary circuit | 500 V |
| shock resistance | 6g / 11 ms |
| vibration resistance | 15 mm to 6 Hz; 2g to 500 Hz |
| operating frequency maximum | 1 1/s |
| mechanical service life (switching cycles) of the main contacts typical | 30 000 000 |
| type of assignment | 1 |
| utilization category | |
| • acc. to IEC 60947-4-2 | AC-53a: 9 A: (8-0,7: 70-32) |
| reference code acc. to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 15.04.2016 00:00:00 |
| product function | |
| direct start | Yes |
| reverse starting | Yes |
| product component motor brake output | No |
| product function short circuit protection | Yes |
| design of short-circuit protection | fuse |
| breaking capacity maximum short-circuit current (Icu) | |
| at 400 V rated value | 55 kA |

| 1500 // 1 1 1 | 5514 |
|--|--|
| at 500 V rated value | 55 kA |
| at 500 V acc. to UL 60947 rated value | 100 kA |
| breaking capacity maximum short-circuit current (Icu) in the IT network | |
| at 400 V rated value | 55 kA |
| at 500 V rated value at 500 V rated value | 55 kA |
| | 30 KA |
| Electromagnetic compatibility | along A |
| EMC emitted interference acc. to IEC 60947-1 | class A |
| EMC immunity acc. to IEC 60947-1 | Class A |
| due to burst acc. to IEC 61000-4-4 | 2 kV |
| | 2 kV |
| due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC | 1 kV |
| 61000-4-5 | I AV |
| due to high-frequency radiation acc. to IEC 61000- | Class A |
| 4-6 | |
| field-based interference acc. to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge acc. to IEC 61000-4-2 | 8 kV air discharge |
| conducted HF interference emissions acc. to CISPR11 | Class A for industrial environment |
| field-bound HF interference emission acc. to CISPR11 | Class A for industrial environment |
| Safety related data | |
| MTBF | 46 y |
| safe state | Load circuit open |
| protection class IP on the front acc. to IEC 60529 | IP20 |
| touch protection on the front acc. 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 | 2.8 9 A |
| current-dependent overload release | |
| 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 | 9 A |
| ampacity when starting maximum | 90 A |
| operating power for 3-phase motors at 400 V at 50 Hz | 1.5 4 kW |
| Inputs/ Outputs | |
| number of digital inputs | 4 |
| • note | 4 via 3DI/LC module |
| 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 | 85 mA |
| during operation | 140 mA |
| | |
| at switching on of motor | 230 mA |
| at switching on of motor power loss [W] for rated value of supply voltage | 230 mA |

| • 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 | 0.145 ms |
| Response times | |
| ON-delay time | 20 ms |
| OFF-delay time | 35 50 ms |
| Installation/ mounting/ dimensions | 33 30 1118 |
| | W.C. 11. 1. (1/1 1. C.) |
| 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 | 50 |
| • upwards | 50 mm |
| • downwards | 50 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 4 000 m; For derating see manual |
| 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 acc. 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 acc. 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 PROFlenergy measured values | Yes |
| supports PROFlenergy shutdown | Yes |
| address space memory of address range | |
| of the inputs | 4 byte |
| of the outputs | 2 byte |
| 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 | 9 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.33 hp |
| — at 230 V rated value | 1 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 2 hp |
| — at 220/230 V rated value | 2 hp |
| — at 460/480 V rated value | 5 hp |
| at 1001 100 T 10100 Tulloo | |

operating voltage at AC at 60 Hz acc. to CSA and UL rated value

480 V

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









other

Confirmation



Profibus

Further information

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=3RK1308-0BD00-0CP0

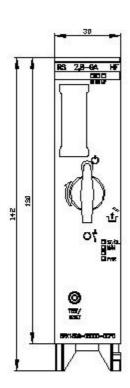
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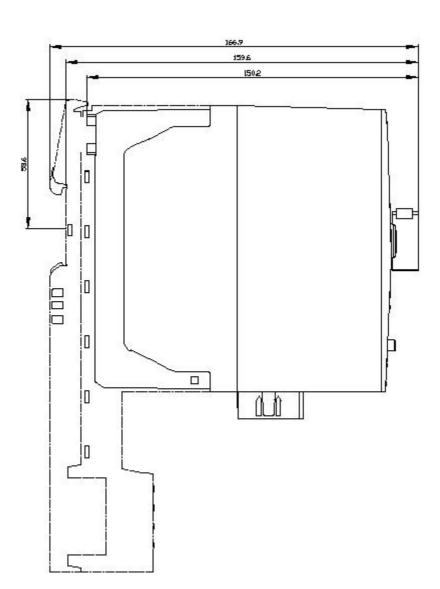
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RK1308-0BD00-0CP0}$

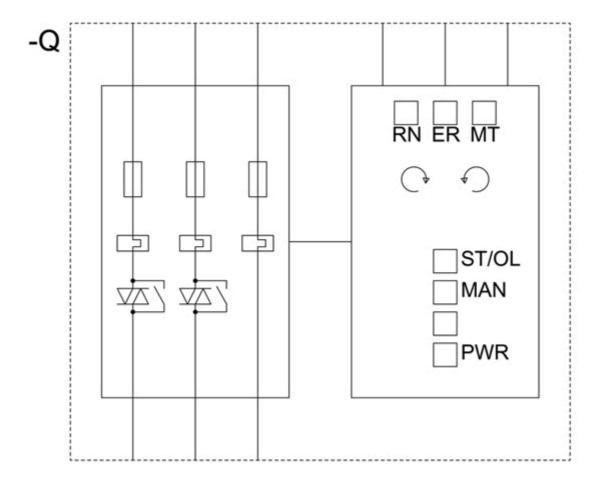
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0BD00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RK1308-0BD00-0CP0&lang=en







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