



Figure similar

ET 200SP MS starter kit including 3RK 1308 motor starter 0.9 - 3 A, reversing starter, BaseUnit with infeed 24 V and 500 V, EMC distance module (blank module 15 mm)

| | |
|--|-----------------------------|
| product brand name | SIMATIC |
| product category | Motor starter |
| product designation | Starter kit |
| product type designation | ET 200SP |
| General technical data | |
| equipment variant according to IEC 60947-4-2 | 3 |
| product function | Reversing starter |
| <ul style="list-style-type: none"> • on-site operation • intrinsic device protection • remote firmware update • for power supply reverse polarity protection | Yes Yes Yes Yes |
| 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 | |
| <ul style="list-style-type: none"> • between main and auxiliary circuit | 500 V |
| shock resistance | 6g / 11 ms |
| vibration resistance | 15 mm to 6 Hz; 2g to 500 Hz |
| mechanical service life (operating cycles) of the main contacts typical | 30 000 000 |
| type of assignment | 1 |
| utilization category | |
| <ul style="list-style-type: none"> • according to IEC 60947-4-2 | AC-53a: 3 A: (8-0,7: 70-32) |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibition (Date) | 03/13/2019 |
| Weight | 0.81 kg |
| product function | |
| <ul style="list-style-type: none"> • direct start • reverse starting | Yes Yes |
| product component motor brake output | No |
| product function short circuit protection | Yes |
| design of short-circuit protection | fuse |
| maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> • at 400 V rated value • at 500 V rated value • at 500 V according to UL 60947 rated value | 55 kA 55 kA 100 kA |
| Electromagnetic compatibility | |
| EMC emitted interference according to IEC 60947-1 | class A |

| | |
|---|--|
| EMC immunity according to IEC 60947-1 | Class A |
| conducted interference | |
| <ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 | 2 kV 2 kV 1 kV 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 | |
| safe state | Load circuit open |
| 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 | 0.9 ... 3 A |
| minimum load [%] | 20 % |
| type of the motor protection | solid-state |
| operating voltage rated value | 48 ... 500 V |
| 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 | 3 A |
| operating power for 3-phase motors at 400 V at 50 Hz | 0.37 ... 1.1 kW |
| Inputs/ Outputs | |
| number of digital inputs | 4 |
| Supply voltage | |
| type of voltage of the supply voltage | DC |
| supply voltage 1 at DC rated value | |
| <ul style="list-style-type: none"> • minimum permissible • maximum permissible | 20.4 V 28.8 V |
| supply voltage at DC rated value | 24 V |
| duration of inrush current peak at 24 V | 0.145 ms |
| Response times | |
| OFF-delay time | 35 ... 50 ms |
| 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 | |
| <ul style="list-style-type: none"> • upwards • downwards | 50 mm 50 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 4 000 m; For derating see manual |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | -25 ... +60 °C; For derating see manual -40 ... +70 °C -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 | 3 A |
| current with locked rotor (LRA) for 3-phase AC motor at 480 V rated value | 24 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 230 V rated value | 0.25 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 0.5 hp |
| — at 220/230 V rated value | 0.5 hp |
| — at 460/480 V rated value | 1.5 hp |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 480 V |

Approvals Certificates

| General Product Approval | Test Certificates | other |
|--|---|---|
|  Confirmation |  EG-Konf. |  Type Test Certificates/Test Report Confirmation |

Environment

[Environmental Confirmations](#)

Further information

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=3RK1908-1SK00>
 Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1908-1SK00>
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1908-1SK00>
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1908-1SK00&lang=en

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