SIEMENS

## Data sheet 3RK1304-5KS40-2AA0



Figure similar

ET 200pro DSE HF DOL starter High Feature Mechanical switching Electronic overload protection AC-3, 0.9 kW / 400 V 0.15 A...2.00 A without brake contact 4 DI Han Q4/2 - Han Q8/0

| | |
|---|---|
| **product brand name** | SIMATIC |
| **product designation** | Motor starters |
| **design of the product** | direct starter |
| **product type designation** | ET 200pro |
| **General technical data** | |
| product function on-site operation | Yes |
| **insulation voltage rated value** | 400 V |
| **degree of pollution** | 3 |
| **surge voltage resistance rated value** | 6 kV |
| maximum permissible voltage for protective separation between main and auxiliary circuit | 400 V |
| **degree of protection NEMA rating** | Type 2, 13 |
| **shock resistance** | 15 g / 11 ms |
| **vibration resistance** | 2 g |
| **operating frequency maximum** | 750 1/h |
| mechanical service life (operating cycles) of the main contacts typical | 30 000 000 |
| **type of coordination** | 1 |
| **reference code according to IEC 81346-2** | Q |
| **Substance Prohibitance (day/month/year)** | 05/01/2012 |
| **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<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| **Net Weight** | 1.497 kg |
| **product function** | |
| ● direct start | Yes |
| ● reverse starting | No |
| **product component motor brake output** | No |
| **product feature** | |
| ● brake control with 230 V AC | No |
| ● brake control with 400 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 function short circuit protection** | Yes |
| **design of short-circuit protection** | fuse |
| **maximum short-circuit current breaking capacity (Icu)** | |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| ● at 400 V rated value | 100 000 A |
| **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 |
| **MTTFd** | 205 a |
| IEC 61508 | |
| **T1 value for proof test interval or service life according to IEC 61508** | 20 a |
| Electrical Safety | |
| **touch protection against electrical shock** | 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** | 0.15 ... 2 A |
| **type of the motor protection** | solid-state |
| **type of voltage** | AC |
| 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** | 15 % |
| operating range relative to the operating voltage at AC at 50 Hz | 200 ... 440 V |
| **operational current** | |
| ● at AC at 400 V rated value | 2 A |
| ● at AC-3 at 400 V rated value | 2 A |
| ● at AC-3e at 400 V rated value | 2 A |
| **operating power** | |
| ● at AC-3 at 400 V rated value | 900 W |
| ● at AC-3e at 400 V rated value | 900 W |
| operating power for 3-phase motors at 400 V at 50 Hz | 70 ... 900 W |
| **Inputs/ Outputs** | |
| **product function** | |
| ● digital inputs parameterizable | Yes |
| ● digital outputs parameterizable | No |
| **number of digital inputs** | 4 |
| **number of sockets** | |
| ● for digital output signals | 0 |
| ● for digital input signals | 4 |
| **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 |
| **control current at DC** | |
| ● in standby mode of operation | 60 mA |
| ● when switching on | 250 mA |
| ● during operation | 250 mA |
| **power loss [W] in auxiliary and control circuit** | |


© Copyright Siemens

| | |
|---|---|
| **● in switching state OFF** | |
| — with bypass circuit | 1.6416 W |
| — without bypass circuit | 1.6416 W |
| **● in switching state ON** | |
| — with bypass circuit | 3.888 W |
| — without bypass circuit | 3.888 W |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | vertical, horizontal |
| **fastening method** | screw fixing |
| **height** | 230 mm |
| **width** | 110 mm |
| **depth** | 150 mm |
| **Ambient conditions** | |
| installation altitude at height above sea level maximum | 3 500 m |
| **ambient temperature** | |
| ● during operation | -25 ... +55 °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 |
| ● PROFINET IO protocol | Yes |
| ● PROFIsafe protocol | No |
| 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 | Yes |
| ● supports PROFIenergy shutdown | Yes |
| **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 |
| **Connections/ Terminals** | |
| **type of electrical connection** | |
| ● for main current circuit | tab terminals |
| **type of electrical connection** | |
| ● 1 for digital input signals | M12 socket |
| ● 2 for digital input signals | M12 socket |
| ● 3 for digital input signals | M12 socket |
| ● 4 for digital input signals | M12 socket |
| **type of electrical connection** | |
| ● at the manufacturer-specific device interface | optical interface |
| ● for main energy infeed | socket according to ISO23570 |
| ● for load-side outgoing feeder | socket according to ISO23570 |
| ● for main energy transmission | socket according to ISO23570 |
| ● for supply voltage line-side | via backplane bus |
| ● for supply voltage transmission | via backplane bus |
| **UL/CSA ratings** | |
| full-load current (FLA) for 3-phase AC motor at 480 V rated value | 2 A |
| **yielded mechanical performance [hp]** | |
| ● for 3-phase AC motor | |
| — at 460/480 V rated value | 0.75 hp |
| — at 575/600 V rated value | 1 hp |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 600 V |


© Copyright Siemens

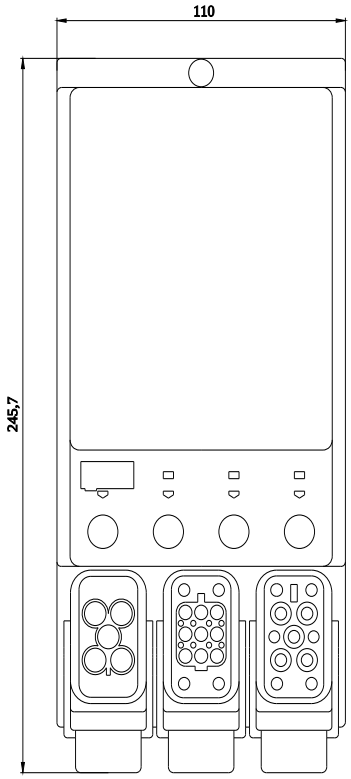
## Approvals Certificates

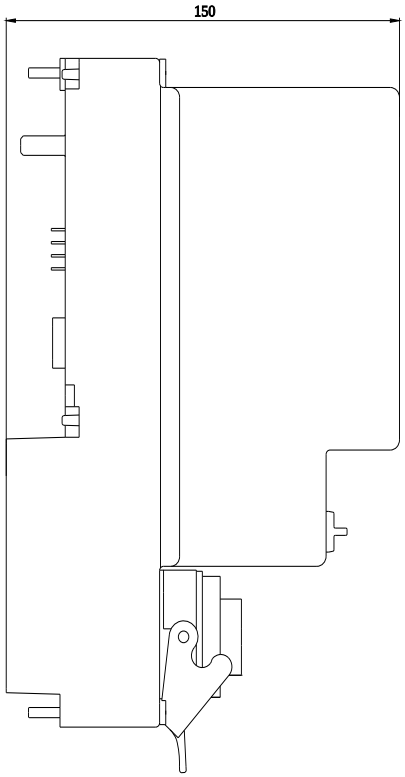
| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| CCC | cULus | EAC | CE EG-Konf. | UKCA | KC |

| EMV | Test Certificates | other | | Dangerous goods | Environment |
|---|---|---|---|---|---|
| RCM | Type Test Certificates/Test Report | Confirmation | 产品合格 QC PASS | Transport Information | Environmental Confirmations |

## 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=3RK1304-5KS40-2AA0
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS40-2AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS40-2AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS40-2AA0&lang=en
**Kennlinien**
https://curves.simaris.siemens.com/curves/3RK1304-5KS40-2AA0




**last modified:** 9/26/2026


Subject to change without notice
© Copyright Siemens

Subject to change without notice
© Copyright Siemens