

ET 200pro EDSE/DSSE HF electronic DOL starter electronic (soft-) switching Full motor protection consisting of: electronic overload protection + thermistor 400 V 3 AC/0.9 kW 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 |
| Degree of pollution | 3 |
| Surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| • between main and auxiliary circuit | 400 V |
| Protection class IP | IP65 |
| Shock resistance | 15g / 11 ms |
| Mechanical service life (switching cycles) | |
| • of the main contacts typical | 30 000 000 |
| Type of assignment | 1 |
| Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | A |
| Reference code acc. to DIN EN 81346-2 | Q |

| | |
|--|-----------------------------------|
| Reference code acc. to DIN EN 61346-2 | Q |
| 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 |
| Trip class | Class 5, 10, 20 and 30 adjustable |
| Maximum short-circuit current breaking capacity (Icu) | |
| • at 400 V rated value | 100 000 A |

Safety related data

| | |
|---|-------------|
| B10 value | |
| • with high demand rate acc. to SN 31920 | 1 000 000 |
| Proportion of dangerous failures | |
| • with low demand rate acc. to SN 31920 | 50 % |
| • with high demand rate acc. to SN 31920 | 75 % |
| Failure rate [FIT] | |
| • with low demand rate acc. to SN 31920 | 100 FIT |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y |
| Protection against electrical shock | finger-safe |

Main circuit

| | |
|---|------------------------------------|
| Number of poles for main current circuit | 3 |
| Design of the switching contact | solid-state / thyristor / 2 phases |
| Adjustable pick-up value current of the current-dependent overload release | 0.15 ... 2 A |
| Type of the motor protection | full motor protection |
| Type of voltage | AC |
| Operating voltage | |
| • rated value | 200 ... 400 V |
| Operating range relative to the operating voltage at AC | |
| • at 50 Hz | 200 ... 440 V |
| Operating current | |
| • at AC at 400 V rated value | 2 A |
| • at AC-3 | |

| | |
|------------------------|-------|
| — at 400 V rated value | 2 A |
| Operating power | |
| • at AC-3 | |
| — at 400 V rated value | 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 ... 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 |
| • at DC | 24 ... 24 V |
| Power loss [W] in auxiliary and control circuit | |
| • in switching state OFF | |
| — with bypass circuit | 1.656 W |
| — without bypass circuit | 1.656 W |
| • in switching state ON | |
| — with bypass circuit | 1.944 W |
| — without bypass circuit | 1.944 W |

Installation/ mounting/ dimensions

| | |
|--------------------------|----------------------|
| Mounting position | vertical, horizontal |
| Mounting type | screw fixing |
| Height | 230 mm |
| Width | 110 mm |
| Depth | 160 mm |

Ambient conditions

| | |
|--|--|
| Installation altitude at height above sea level | |
|--|--|

| | |
|------------------------------------|------------|
| • maximum | 3 500 m |
| Relative humidity during operation | 5 ... 95 % |

Communication/ Protocol

| | |
|--|-------------------|
| Protocol is supported | |
| • PROFIBUS DP protocol | Yes |
| • PROFINET protocol | Yes |
| Design of the interface | |
| • PROFINET protocol | Yes |
| Product function Bus communication | Yes |
| Protocol is supported | |
| • AS-Interface protocol | No |
| Product function | |
| • supports PROFINET measured values | Yes |
| • supports PROFINET shutdown | Yes |
| address range 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 | |
| • 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

| | |
|---|-------|
| 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 |
|--------------------------|-----|---------------------------|



CCC



CSA



UL



RCM



EG-Konf.

| | | |
|---------------------------|-------------------|-------|
| Declaration of Conformity | Test Certificates | other |
|---------------------------|-------------------|-------|

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1304-5KS70-2AA0>

Cax online generator

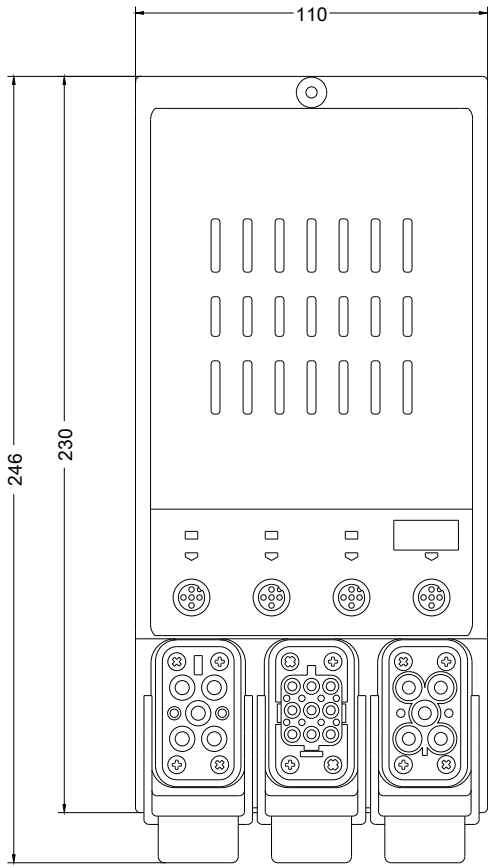
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS70-2AA0>

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

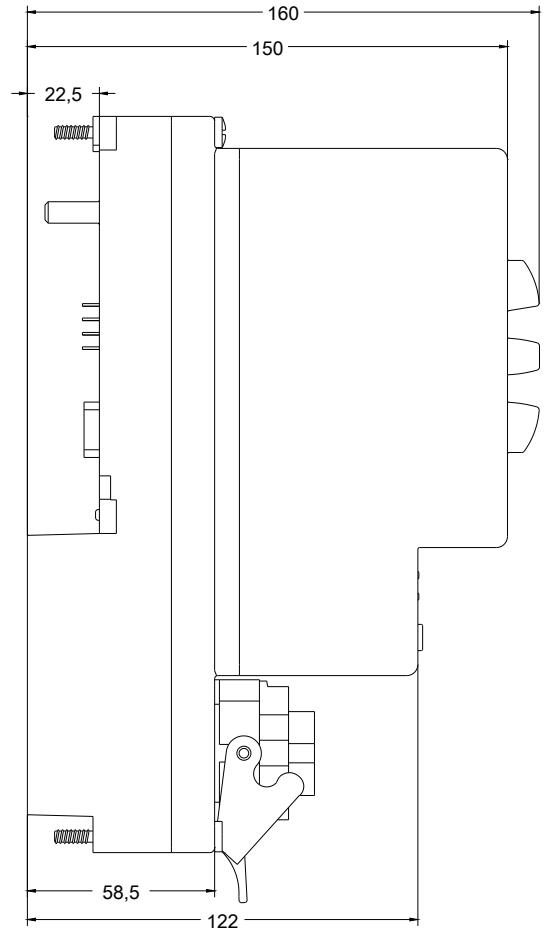
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS70-2AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS70-2AA0&lang=en



last modified:



09/13/2019