



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

|  |   |
|--|---|
| <b>product brand name</b>  | SIMATIC   |
| <b>product designation</b>   | Motor starters  |
| <b>design of the product</b>   | direct starter  |
| <b>product type designation</b>  | ET 200pro   |
| <b>General technical data</b>  |   |
| product function on-site operation   | Yes   |
| <b>insulation voltage rated value</b>  | 400 V   |
| <b>degree of pollution</b>   | 3   |
| <b>surge voltage resistance rated value</b>  | 6 kV  |
| maximum permissible voltage for protective separation between main and auxiliary circuit | 400 V   |
| <b>shock resistance</b>  | 15 g / 11 ms  |
| <b>vibration resistance</b>  | 2 g   |
| mechanical service life (operating cycles) of the main contacts typical                  | 30 000 000  |
| <b>type of coordination</b>  | 1   |
| <b>reference code according to IEC 81346-2</b>   | Q   |
| <b>Substance Prohibitance (day/month/year)</b>   | 05/01/2012  |
| <b>SVHC substance name</b>   | 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 |
| <b>Net Weight</b>  | 1.699 kg  |
| <b>product function</b>  |   |
| • direct start   | Yes   |
| • reverse starting   | No  |
| <b>product component motor brake output</b>  | No  |
| <b>product feature</b>   |   |
| • 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  |
| <b>product function short circuit protection</b>   | Yes   |
| <b>design of short-circuit protection</b>  | fuse  |
| <b>maximum short-circuit current breaking capacity (Icu)</b>                             |   |
| • at 400 V rated value   | 100 000 A   |
| <b>Safety related data</b>   |   |

|   |  |
|---|--|
| <b>proportion of dangerous failures</b>   |  |
| <ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>   | 50 %<br>75 %                               |
| <b>B10 value with high demand rate according to SN 31920</b>  | 1 000 000                                  |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b>  | 100 FIT                                    |
| <b>IEC 61508</b>  |  |
| T1 value for proof test interval or service life according to IEC 61508   | 20 a                                       |
| <b>Electrical Safety</b>  |  |
| <b>touch protection against electrical shock</b>  | finger-safe                                |
| <b>Main circuit</b>   |  |
| <b>number of poles for main current circuit</b>   | 3  |
| <b>design of the switching contact</b>  | electromechanical                          |
| <b>adjustable current response value current of the current-dependent overload release</b>  | 0.15 ... 2 A                               |
| <b>type of the motor protection</b>   | solid-state                                |
| <b>type of voltage</b>  | AC   |
| operating voltage rated value   | 200 ... 400 V                              |
| operating range relative to the operating voltage at AC at 50 Hz  | 200 ... 440 V                              |
| <b>operational current</b>  |  |
| <ul style="list-style-type: none"> <li>at AC at 400 V rated value</li> <li>at AC-3 at 400 V rated value</li> </ul>  | 2 A<br>2 A                                 |
| <b>operating power</b>  |  |
| <ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> </ul>  | 900 W                                      |
| operating power for 3-phase motors at 400 V at 50 Hz  | 70 ... 900 W                               |
| <b>Inputs/ Outputs</b>  |  |
| <b>product function</b>   |  |
| <ul style="list-style-type: none"> <li>digital inputs parameterizable</li> <li>digital outputs parameterizable</li> </ul>   | Yes<br>No                                  |
| <b>number of digital inputs</b>   | 4  |
| <b>number of sockets</b>  |  |
| <ul style="list-style-type: none"> <li>for digital output signals</li> <li>for digital input signals</li> </ul>   | 0<br>4                                     |
| <b>Supply voltage</b>   |  |
| <b>type of voltage of the supply voltage</b>  | DC   |
| <b>supply voltage 1 at DC</b>   | 24 V                                       |
| <b>supply voltage 1 at DC rated value</b>   |  |
| <ul style="list-style-type: none"> <li>minimum permissible</li> <li>maximum permissible</li> </ul>  | 20.4 V<br>28.8 V                           |
| <b>Control circuit/ Control</b>   |  |
| <b>type of voltage of the control supply voltage</b>  | DC   |
| <b>control supply voltage at DC rated value</b>   | 20.4 ... 28.8 V                            |
| <b>control supply voltage 1 at DC rated value</b>   | 20.4 ... 28.8 V                            |
| <b>control supply voltage 1 at DC</b>   | 24 V                                       |
| <b>power loss [W] in auxiliary and control circuit</b>  |  |
| <ul style="list-style-type: none"> <li><b>in switching state OFF</b> <ul style="list-style-type: none"> <li>with bypass circuit</li> <li>without bypass circuit</li> </ul> </li> <li><b>in switching state ON</b> <ul style="list-style-type: none"> <li>with bypass circuit</li> <li>without bypass circuit</li> </ul> </li> </ul> | 1.6416 W<br>1.6416 W<br>3.888 W<br>3.888 W |
| <b>Installation/ mounting/ dimensions</b>   |  |
| <b>mounting position</b>  | vertical, horizontal                       |
| <b>fastening method</b>   | screw fixing                               |
| <b>height</b>   | 230 mm                                     |
| <b>width</b>  | 110 mm                                     |
| <b>depth</b>  | 150 mm                                     |
| <b>Ambient conditions</b>   |  |

|   |                |
|---|----------------|
| installation altitude at height above sea level maximum | 3 500 m        |
| <b>ambient temperature</b>                              |                |
| • during operation                                      | -25 ... +55 °C |
| • during storage  | -40 ... +70 °C |
| • during transport                                      | -40 ... +70 °C |
| relative humidity during operation                      | 5 ... 95 %     |

### Communication/ Protocol

|  |                   |
|--|-------------------|
| <b>protocol is supported</b>                                 |                   |
| • PROFIBUS DP protocol                                       | Yes               |
| • PROFINET protocol  | Yes               |
| design of the interface PROFINET protocol                    | Yes               |
| <b>product function bus communication</b>                    | Yes               |
| protocol is supported AS-Interface protocol                  | No                |
| <b>product function</b>                                      |                   |
| • supports PROFenergy measured values                        | Yes               |
| • supports PROFenergy shutdown                               | Yes               |
| <b>address space memory of address range</b>                 |                   |
| • of the inputs  | 2 byte            |
| • of the outputs   | 2 byte            |
| type of electrical connection of the communication interface | via backplane bus |

### Connections/ Terminals

|   |                              |
|---|------------------------------|
| <b>type of electrical connection</b>            |                              |
| • for main current circuit                      | tab terminals                |
| <b>type of electrical connection</b>            |                              |
| • 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                   |
| <b>type of electrical connection</b>            |                              |
| • 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 according to CSA and UL rated value | 600 V |
|--|-------|

### Approvals Certificates

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



|                   |       |                 |             |
|-------------------|-------|-----------------|-------------|
| Test Certificates | other | Dangerous goods | Environment |
|-------------------|-------|-----------------|-------------|

[Type Test Certificates/Test Report](#)

[Confirmation](#)



[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,...)**

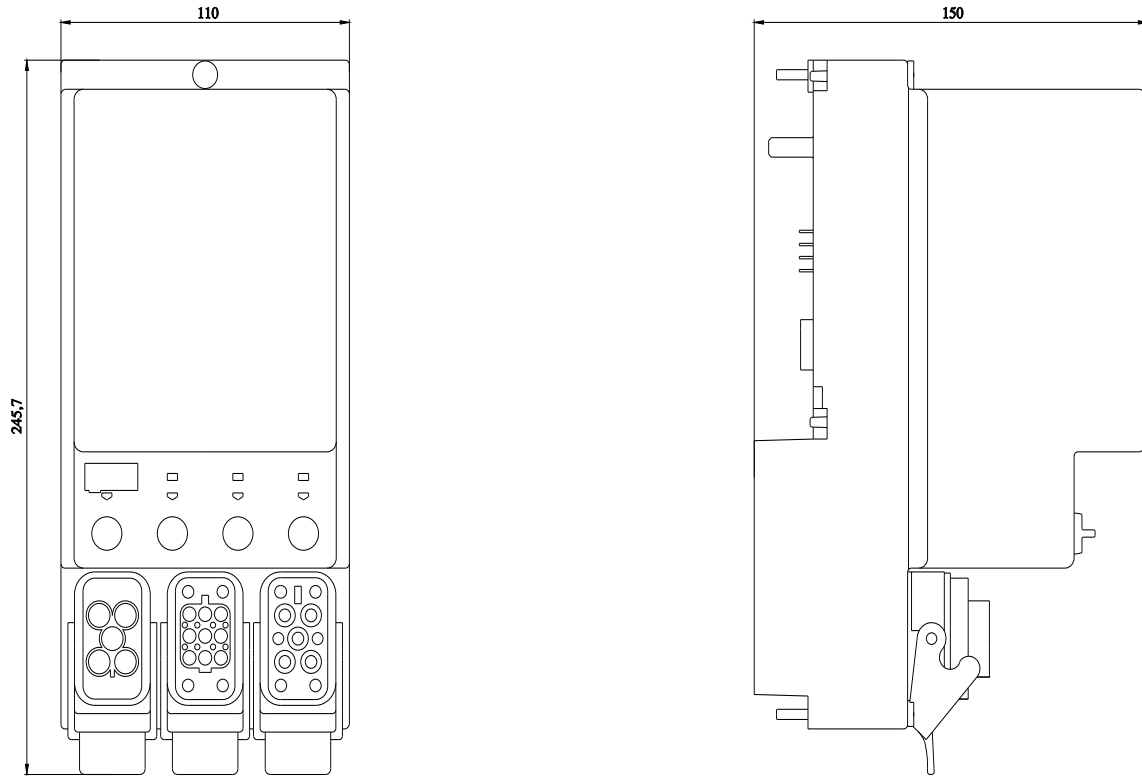
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS40-2AA0>

**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](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS40-2AA0&lang=en)

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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