

ET 200pro EDSE/DSSE HF electronic DOL starter electronic (soft-) switching Full motor protection consisting of: electronic Overload protection + thermistor AC-3, 5.5 kW / 400 V 1.5 A...(9 A)12 A without brake contact 4 DI Han Q4/2 - Han Q8/0



Figure similar

Product brand name	SIMATIC
Product designation	Motor starters
Design of the product	direct starter
Product type designation	ET 200pro

General technical data	
Trip class	Class 5, 10, 20 and 30 adjustable
Product function	
• on-site operation	Yes
Insulation voltage	
• rated value	400 V
Degree of pollution	3
maximum permissible voltage for safe isolation	
• between main and auxiliary circuit	400 V
Protection class IP	IP65
Shock resistance	15g / 11 ms
Vibration resistance	2g
Mechanical service life (switching cycles)	

<ul style="list-style-type: none"> <li>• of the main contacts typical</li> </ul>	30 000 000
<b>Type of assignment</b>	1
<b>Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b>	A
<b>Reference code acc. to DIN EN 81346-2</b>	Q
<b>Reference code acc. to DIN EN 61346-2</b>	Q
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• direct start</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• reverse starting</li> </ul>	No
<b>Product component Motor brake output</b>	No
<b>Product feature</b>	
<ul style="list-style-type: none"> <li>• brake control with 230 V AC</li> </ul>	No
<ul style="list-style-type: none"> <li>• brake control with 400 V AC</li> </ul>	No
<ul style="list-style-type: none"> <li>• brake control with 24 V DC</li> </ul>	No
<ul style="list-style-type: none"> <li>• brake control with 180 V DC</li> </ul>	No
<ul style="list-style-type: none"> <li>• brake control with 500 V DC</li> </ul>	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>	
<ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>	100 000 A

#### Safety related data

<b>B10 value</b>	
<ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>	1 000 000
<b>Proportion of dangerous failures</b>	
<ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> </ul>	50 %
<ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>	75 %
<b>Failure rate [FIT]</b>	
<ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> </ul>	100 FIT
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	20 y
<b>Protection against electrical shock</b>	finger-safe

#### Main circuit

<b>Number of poles for main current circuit</b>	3
<b>Design of the switching contact</b>	solid-state / thyristor / 2 phases
<b>Adjustable pick-up value current of the current-dependent overload release</b>	1.5 ... 12 A
<b>Type of the motor protection</b>	full motor protection
<b>Type of voltage</b>	AC
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	200 ... 400 V
<b>Operating range relative to the operating voltage at AC</b>	

<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>	200 ... 440 V
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at AC at 400 V rated value</li> </ul>	12 A
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>	12 A
<b>Operating power</b>	
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>	5 500 W
Operating power for three-phase motors at 400 V at 50 Hz	700 ... 5 500 W

### Inputs/ Outputs

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• digital inputs parameterizable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• digital outputs parameterizable</li> </ul>	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> </ul>	0
<ul style="list-style-type: none"> <li>• for digital input signals</li> </ul>	4

### Supply voltage

<b>Type of voltage of the supply voltage</b>	DC
<b>Supply voltage 1 at DC</b>	24 ... 24 V
<b>Supply voltage 1 at DC rated value</b>	
<ul style="list-style-type: none"> <li>• minimum permissible</li> </ul>	20.4 V
<ul style="list-style-type: none"> <li>• maximum permissible</li> </ul>	28.8 V

### Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	DC
<b>Control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	20.4 ... 28.8 V
<b>Control supply voltage 1</b>	
<ul style="list-style-type: none"> <li>• at DC rated value</li> </ul>	20.4 ... 28.8 V
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	24 ... 24 V
<b>Power loss [W] in auxiliary and control circuit</b>	
<ul style="list-style-type: none"> <li>• in switching state OFF <ul style="list-style-type: none"> <li>— with bypass circuit</li> <li>— without bypass circuit</li> </ul> </li> </ul>	1.656 W 1.656 W
<ul style="list-style-type: none"> <li>• in switching state ON <ul style="list-style-type: none"> <li>— with bypass circuit</li> <li>— without bypass circuit</li> </ul> </li> </ul>	5.4 W 1.944 W

### Installation/ mounting/ dimensions

<b>Mounting position</b>	vertical, horizontal
<b>Mounting type</b>	screw fixing

<b>Height</b>	230 mm
<b>Width</b>	110 mm
<b>Depth</b>	160 mm

### Ambient conditions

<b>Installation altitude at height above sea level</b>	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3 500 m
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-25 ... +55 °C -40 ... +70 °C -40 ... +70 °C
Relative humidity during operation	5 ... 95 %

### Communication/ Protocol

<b>Protocol is supported</b>	
<ul style="list-style-type: none"> <li>• PROFIBUS DP protocol</li> <li>• PROFINET protocol</li> </ul>	Yes Yes
<b>Design of the interface</b>	
<ul style="list-style-type: none"> <li>• PROFINET protocol</li> </ul>	Yes
<b>Product function Bus communication</b>	Yes
<b>Protocol is supported</b>	
<ul style="list-style-type: none"> <li>• AS-Interface protocol</li> </ul>	No
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• supports PROFIenergy measured values</li> <li>• supports PROFIenergy shutdown</li> </ul>	Yes Yes
<b>address range memory of address range</b>	
<ul style="list-style-type: none"> <li>• of the inputs</li> <li>• of the outputs</li> </ul>	2 byte 2 byte
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• of the communication interface</li> </ul>	via backplane bus

### Connections/ Terminals

<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>	tab terminals
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• 1 for digital input signals</li> <li>• 2 for digital input signals</li> <li>• 3 for digital input signals</li> <li>• 4 for digital input signals</li> </ul>	M12 socket M12 socket M12 socket M12 socket
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• at the manufacturer-specific device interface</li> <li>• for main energy infeed</li> <li>• for load-side outgoing feeder</li> <li>• for main energy transmission</li> </ul>	optical interface socket according to ISO23570 socket according to ISO23570 socket according to ISO23570

- for supply voltage line-side
- for supply voltage transmission

via backplane bus

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
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CCC



CSA



UL



RCM



EG-Konf.

Declaration of Conformity	Test Certificates	other
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

### Further information

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

[www.siemens.com/sirius/catalogs](http://www.siemens.com/sirius/catalogs)

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1304-5LS70-2AA0>

#### Cax online generator

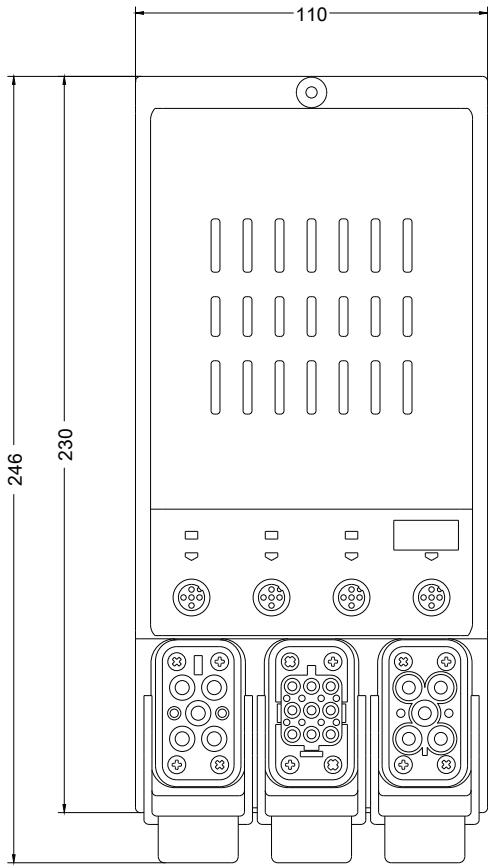
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5LS70-2AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5LS70-2AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1304-5LS70-2AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5LS70-2AA0&lang=en)



last modified:

11/15/2019

