

ET 200pro DSE ST DOL starter Standard Mechanical switching  
 Electronic overload protection AC-3, 0.9 kW / 400 V 0.15 A...2.00 A  
 without brake contact 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	
Trip class	CLASS 10
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)	
• 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
<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

### Safety related data

<b>B10 value</b>	
• with high demand rate acc. to SN 31920	1 000 000
<b>Proportion of dangerous failures</b>	
• with low demand rate acc. to SN 31920	50 %
• with high demand rate acc. to SN 31920	75 %
<b>Failure rate [FIT]</b>	
• with low demand rate acc. to SN 31920	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>	electromechanical
<b>Adjustable pick-up 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
<b>Operating voltage</b>	
• rated value	200 ... 400 V
<b>Operating range relative to the operating voltage at AC</b>	
• at 50 Hz	200 ... 440 V
<b>Operating current</b>	

<ul style="list-style-type: none"> <li>• at AC at 400 V rated value</li> </ul>	2 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>	2 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>	900 W
Operating power for three-phase motors at 400 V at 50 Hz	70 ... 900 W

### Inputs/ Outputs

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• digital inputs parameterizable</li> </ul>	No
<ul style="list-style-type: none"> <li>• digital outputs parameterizable</li> </ul>	No
<b>Number of digital inputs</b>	0
<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>	0

### 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>	1.6416 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>	3.888 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>	150 mm
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### 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> </ul>	-25 ... +55 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-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> </ul>	Yes
<ul style="list-style-type: none"> <li>• PROFINET protocol</li> </ul>	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 PROFlenergy measured values</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• supports PROFlenergy shutdown</li> </ul>	Yes
<b>address range memory of address range</b>	
<ul style="list-style-type: none"> <li>• of the inputs</li> </ul>	2 byte
<ul style="list-style-type: none"> <li>• of the outputs</li> </ul>	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> </ul>	M12 socket
<ul style="list-style-type: none"> <li>• 2 for digital input signals</li> </ul>	M12 socket
<ul style="list-style-type: none"> <li>• 3 for digital input signals</li> </ul>	M12 socket
<ul style="list-style-type: none"> <li>• 4 for digital input signals</li> </ul>	M12 socket
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• at the manufacturer-specific device interface</li> </ul>	optical interface
<ul style="list-style-type: none"> <li>• for main energy infeed</li> </ul>	socket according to ISO23570
<ul style="list-style-type: none"> <li>• for load-side outgoing feeder</li> </ul>	socket according to ISO23570
<ul style="list-style-type: none"> <li>• for main energy transmission</li> </ul>	socket according to ISO23570
<ul style="list-style-type: none"> <li>• for supply voltage line-side</li> </ul>	via backplane bus
<ul style="list-style-type: none"> <li>• for supply voltage transmission</li> </ul>	via backplane bus

## UL/CSA ratings

### Operating voltage

- at AC at 60 Hz acc. to CSA and UL rated value 600 V

## Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity			
 CCC	 CSA	 UL	 EAC	 RCM	 EG-Konf.

Declaration of Conformity	Test Certificates	other
<a href="#">Miscellaneous</a>	<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a>

## 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?mfb=3RK1304-5KS40-4AA0>

### Cax online generator

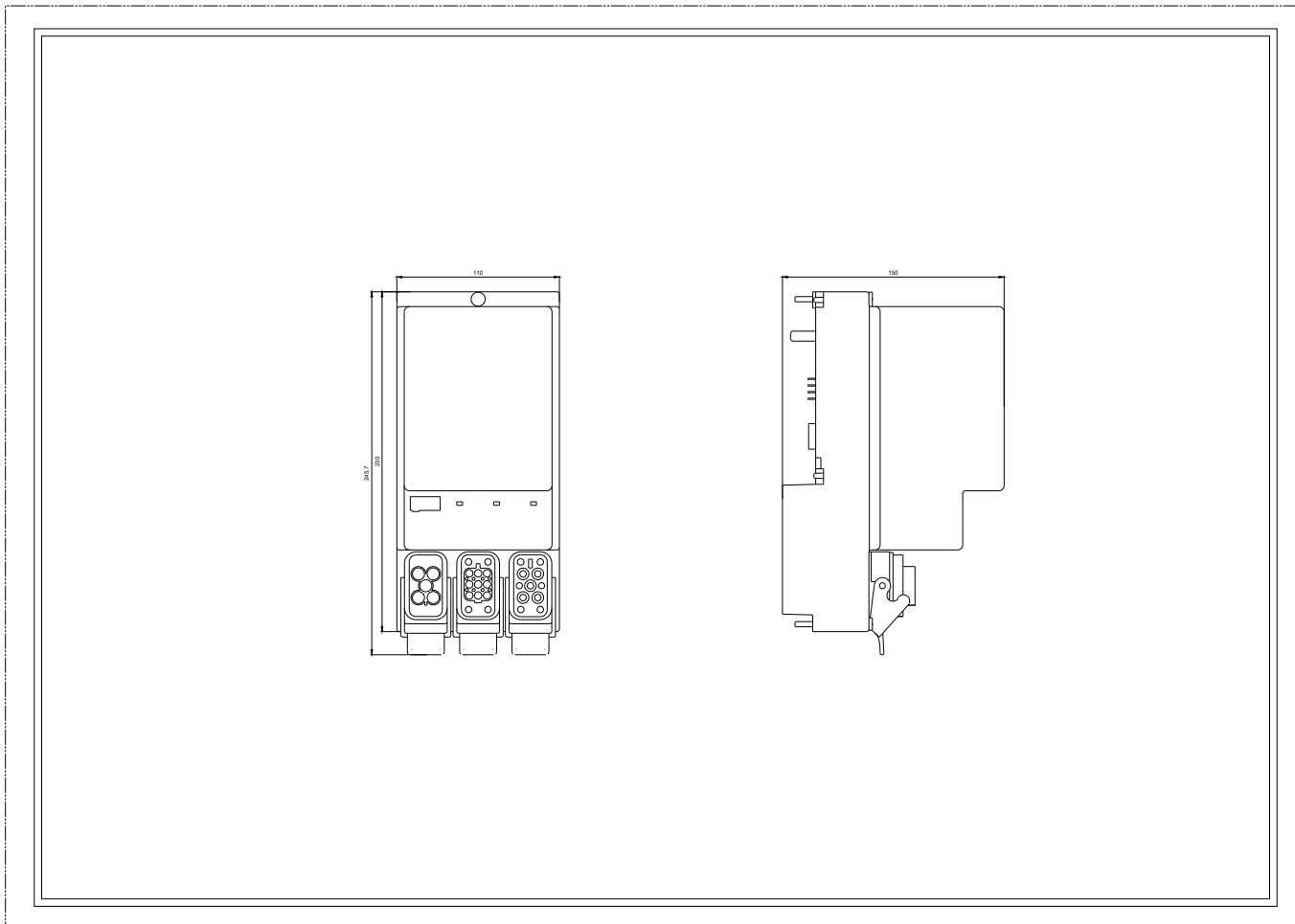
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK1304-5KS40-4AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS40-4AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RK1304-5KS40-4AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RK1304-5KS40-4AA0&lang=en)



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