

ET 200pro ERSE/RSSE HF electronic reversing 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 Brake contact 400 V AC 4 DI Han Q4/2 - Han Q8/0



Product brand name	SIMATIC
Product designation	Motor starters
Design of the product	reversing 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
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
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
Product function	
• direct start	No
• reverse starting	Yes
Product component Motor brake output	Yes
Product feature	
• brake control with 230 V AC	No
• brake control with 400 V AC	Yes
• brake control with 24 V DC	No
• brake control with 180 V DC	No
• brake control with 500 V DC	No
Type of voltage of the supply voltage for brake control required	AC
Supply voltage for brake control required	400 V
Product function Short circuit protection	Yes
Design of short-circuit protection	fuse
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	1.5 ... 12 A
Type of the motor protection	full motor protection
Type of voltage	AC
Operating voltage	
• 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>	
• at AC at 400 V rated value	12 A
• at AC-3	
— at 400 V rated value	12 A
<b>Operating power</b>	
• at AC-3	
— at 400 V rated value	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>	
• digital inputs parameterizable	Yes
• digital outputs parameterizable	No
<b>Number of digital inputs</b>	4
<b>Number of sockets</b>	
• for digital output signals	0
• for digital input signals	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>	
• minimum permissible	20.4 V
• maximum permissible	28.8 V

### Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	DC
<b>Control supply voltage at DC</b>	
• rated value	20.4 ... 28.8 V
<b>Control supply voltage 1</b>	
• at DC rated value	20.4 ... 28.8 V
• at DC	24 ... 24 V
<b>Power loss [W] in auxiliary and control circuit</b>	
• <b>in switching state OFF</b>	
— with bypass circuit	1.656 W
— without bypass circuit	1.656 W
• <b>in switching state ON</b>	
— with bypass circuit	6.84 W
— without bypass circuit	5.328 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> </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 PROFIenergy measured values</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• supports PROFIenergy 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

- for load-side outgoing feeder
- for main energy transmission
- for supply voltage line-side
- for supply voltage transmission

socket according to ISO23570  
 socket according to ISO23570  
 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	
 CCC	 CSA	 UL		 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/ic10](http://www.siemens.com/ic10)

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RK1304-5LS70-3AA3>

#### Cax online generator

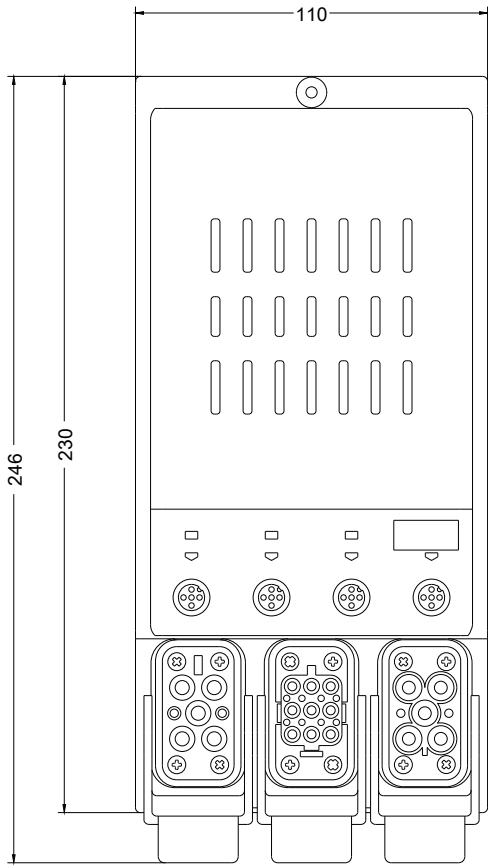
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK1304-5LS70-3AA3>

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

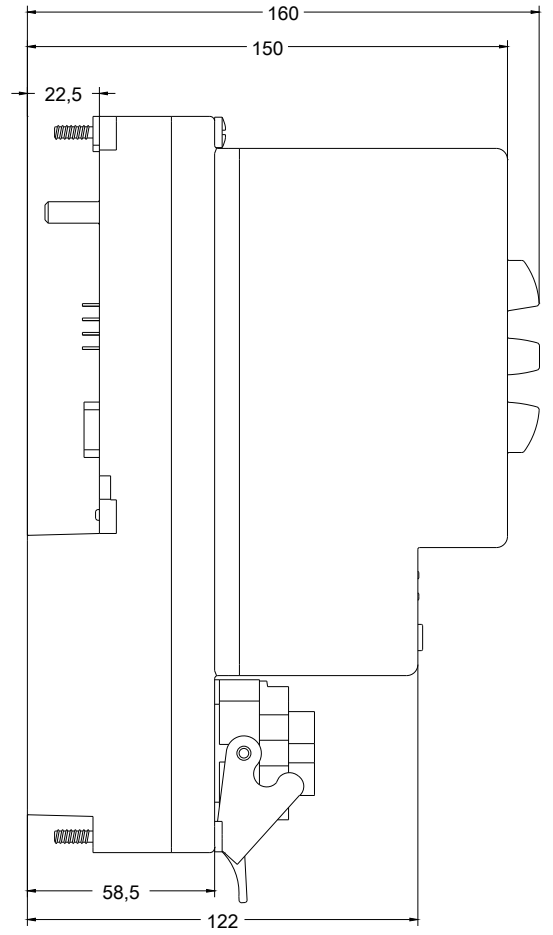
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5LS70-3AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RK1304-5LS70-3AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RK1304-5LS70-3AA3&lang=en)



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