



Figure similar

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 Brake contact 400 V AC 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 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
<b>Net Weight</b>	1.96 kg
<b>product function</b>	
• direct start	Yes
• reverse starting	No
<b>product component motor brake output</b>	Yes
<b>product feature</b>	
• 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
<b>type of voltage of the supply voltage for brake control required</b>	AC
<b>supply voltage for brake control required</b>	400 V
<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
<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> </ul>	50 %
<ul style="list-style-type: none"> <li>with high demand rate according to SN 31920</li> </ul>	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>	solid-state / thyristor / 2 phases
<b>adjustable current response value current of the current-dependent overload release</b>	0.15 ... 2 A
<b>type of the motor protection</b>	full motor protection
<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> </ul>	2 A
<ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> </ul>	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> </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
<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> </ul>	20.4 V
<ul style="list-style-type: none"> <li>maximum permissible</li> </ul>	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> </ul> </li> </ul>	1.656 W
<ul style="list-style-type: none"> <li>without bypass circuit</li> </ul>	1.656 W
<ul style="list-style-type: none"> <li><b>in switching state ON</b> <ul style="list-style-type: none"> <li>with bypass circuit</li> </ul> </li> </ul>	1.944 W
<ul style="list-style-type: none"> <li>without bypass circuit</li> </ul>	1.944 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>	160 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 %
<b>Communication/ Protocol</b>	
<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
<b>Connections/ Terminals</b>	
<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
<b>UL/CSA ratings</b>	
operating voltage at AC at 60 Hz according to CSA and UL rated value	480 V

<b>Approvals Certificates</b>	
<b>General Product Approval</b>	EMV



<b>Test Certificates</b>	<b>other</b>	<b>Environment</b>
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[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=3RK1304-5KS70-2AA3>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS70-2AA3>

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

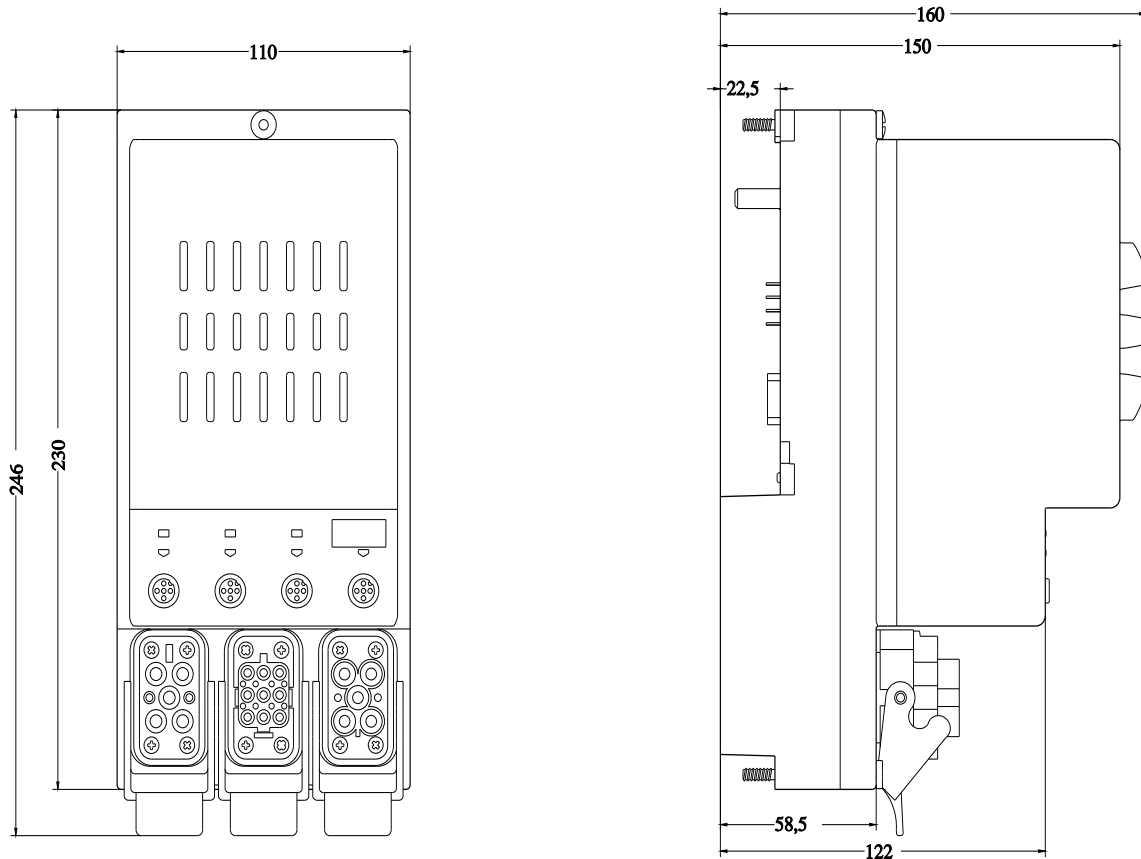
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS70-2AA3>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1304-5KS70-2AA3&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS70-2AA3&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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