

## Data sheet

3RK1304-5KS70-2AA0



ET 200pro EDSE/DSSE HF electronic direct-on-line 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 without brake contact 4 DI 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
<b>General technical data</b>	
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 protective separation between main and auxiliary circuit	400 V
shock resistance	15g / 11 ms
vibration resistance	2g
mechanical service life (operating cycles) of the main contacts typical	30 000 000
type of coordination	1
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 Lead titanium zirconium oxide - 12626-81-2 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
Net Weight	1.956 kg
product function	<ul style="list-style-type: none"> <li>• direct start</li> <li>• reverse starting</li> </ul>
Yes	
No	
product component motor brake output	No
product feature	
• 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
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
<b>Safety related data</b>	
proportion of dangerous failures	
• with low demand rate according to SN 31920	50 %

• with high demand rate according to SN 31920	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
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
<b>touch protection against electrical shock</b>	finger-safe
<b>Main circuit</b>	
number of poles for main current circuit	3
design of the switching contact	solid-state / thyristor / 2 phases
adjustable current response value current of the current-dependent overload release	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>	
• at AC at 400 V rated value	2 A
• at AC-3 at 400 V rated value	2 A
<b>operating power</b>	
• at AC-3 at 400 V rated value	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>	
• 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
<b>Supply voltage</b>	
<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
<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 ... 24 V
<b>power loss [W] in auxiliary and control circuit</b>	
• in switching state OFF	
— with bypass circuit	1.656 W
— without bypass circuit	1.656 W
• in switching state ON	
— with bypass circuit	1.944 W
— without bypass circuit	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 %

#### Communication/ Protocol

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

#### Connections/ Terminals

type of electrical connection	
• for main current circuit	tab terminals
type of electrical connection	
• 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
type of electrical connection	
• 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	480 V
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#### Approvals Certificates

General Product Approval	EMV
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Test Certificates	other	Environment
<a href="#">Type Test Certificates/Test Report</a>		<a href="#">Confirmation</a> <a href="#">Environmental Confirmations</a>

#### 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=3RK1304-5KS70-2AA0>

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS70-2AA0>

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

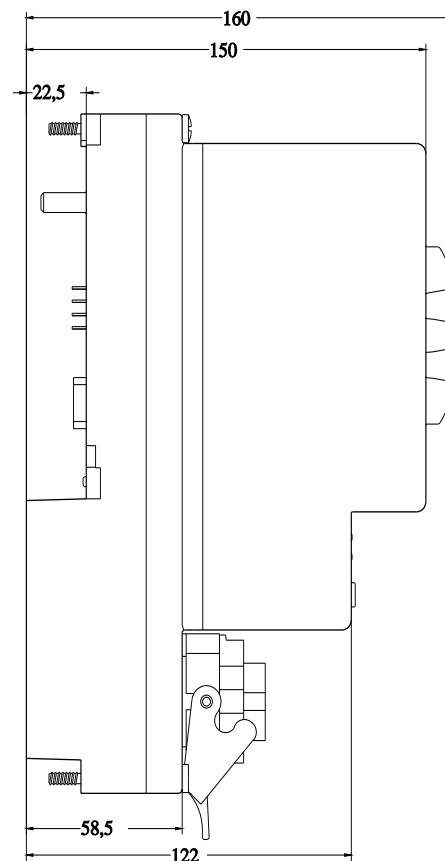
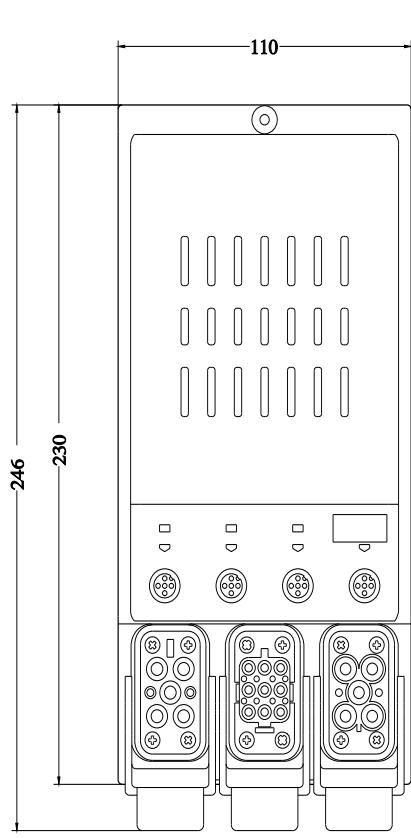
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS70-2AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1304-5KS70-2AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS70-2AA0&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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last modified:

4/1/2025