

ET 200pro ERSE/RSSE HF electronic reversing 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



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

General technical data	
Product function	
• on-site operation	Yes
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
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
Trip class	Class 5, 10, 20 and 30 adjustable
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	0.15 ... 2 A
Type of the motor protection	full motor protection
Type of voltage	AC
Operating voltage	
• rated value	200 ... 400 V
Operating range relative to the operating voltage at AC	
• at 50 Hz	200 ... 440 V

Operating current	
<ul style="list-style-type: none"> • at AC at 400 V rated value 	2 A
<ul style="list-style-type: none"> • at AC-3 — at 400 V rated value 	2 A
Operating power	
<ul style="list-style-type: none"> • at AC-3 — at 400 V rated value 	900 W

Inputs/ Outputs

Product function	
<ul style="list-style-type: none"> • digital inputs parameterizable 	Yes
<ul style="list-style-type: none"> • digital outputs parameterizable 	No
Number of digital inputs	4
Number of sockets	
<ul style="list-style-type: none"> • for digital output signals 	0
<ul style="list-style-type: none"> • for digital input signals 	4

Supply voltage

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

Control circuit/ Control

Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
<ul style="list-style-type: none"> • rated value 	20.4 ... 28.8 V
Control supply voltage 1	
<ul style="list-style-type: none"> • at DC rated value 	20.4 ... 28.8 V
<ul style="list-style-type: none"> • at DC 	24 ... 24 V
Power loss [W] in auxiliary and control circuit	
<ul style="list-style-type: none"> • in switching state OFF — with bypass circuit — without bypass circuit 	1.656 W 1.656 W
<ul style="list-style-type: none"> • in switching state ON — with bypass circuit — without bypass circuit 	3.168 W 3.168 W

Installation/ mounting/ dimensions

Mounting position	vertical, horizontal
Mounting type	screw fixing
Height	230 mm
Width	110 mm
Depth	160 mm

Ambient conditions

Installation altitude at height above sea level	
<ul style="list-style-type: none"> • maximum 	3 500 m
Relative humidity during operation	5 ... 95 %

Communication/ Protocol

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

Connections/ Terminals

Type of electrical connection	
<ul style="list-style-type: none"> • 1 for digital input signals 	M12 socket
<ul style="list-style-type: none"> • 2 for digital input signals 	M12 socket
<ul style="list-style-type: none"> • 3 for digital input signals 	M12 socket
<ul style="list-style-type: none"> • 4 for digital input signals 	M12 socket
Type of electrical connection	
<ul style="list-style-type: none"> • at the manufacturer-specific device interface 	optical interface
<ul style="list-style-type: none"> • for main energy infeed 	socket according to ISO23570
<ul style="list-style-type: none"> • for load-side outgoing feeder 	socket according to ISO23570
<ul style="list-style-type: none"> • for main energy transmission 	socket according to ISO23570
<ul style="list-style-type: none"> • for supply voltage line-side 	via backplane bus
<ul style="list-style-type: none"> • for supply voltage transmission 	via backplane bus

UL/CSA ratings

Operating voltage	
<ul style="list-style-type: none"> • 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
---------------------------	-------------------	-------

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1304-5KS70-3AA3>

Cax online generator

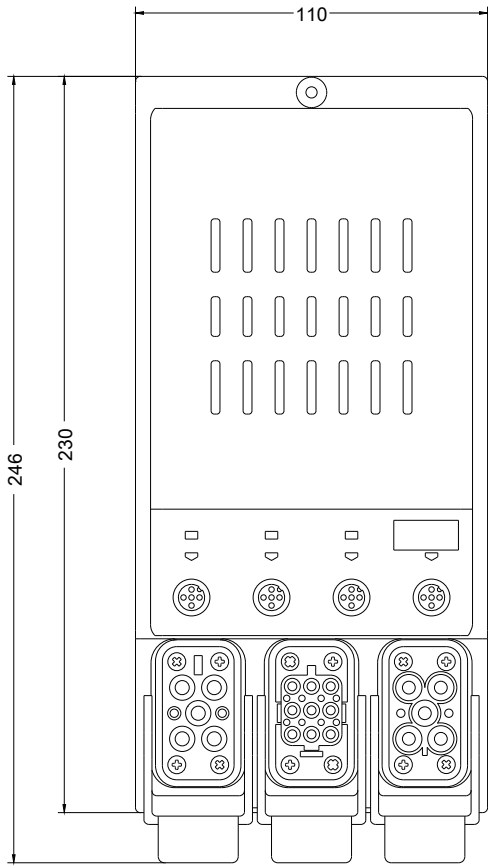
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5KS70-3AA3>

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

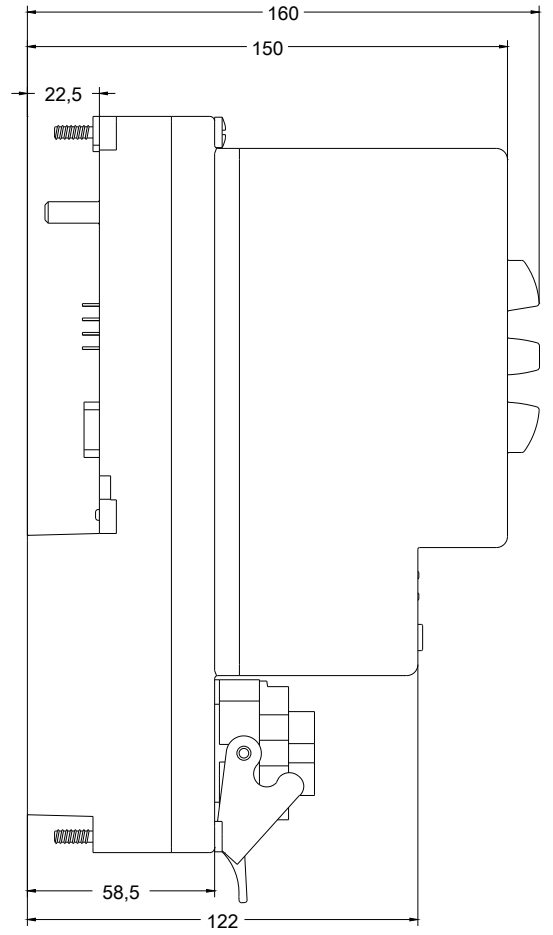
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5KS70-3AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5KS70-3AA3&lang=en



last modified:



09/13/2019