SIEMENS

Data sheet 3RK1304-5LS70-3AA3



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	
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
protection class IP	IP65
shock resistance	15g / 11 ms
vibration resistance	2g
mechanical service life (operating cycles) of the main contacts typical	30 000 000
type of assignment	1
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
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	

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B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
● with low demand rate according to SN 31920	50 %
● with high demand rate according to SN 31920	75 %
failure rate [FIT]	
● with low demand rate according to SN 31920	100 FIT
touch 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 current response 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
operating range relative to the operating voltage at AC at 50 Hz	200 ... 440 V
operational current	
● at AC at 400 V rated value	12 A
● at AC-3 at 400 V rated value	12 A
operating power	
● at AC-3 at 400 V rated value	5 500 W
operating power for 3-phase motors at 400 V at 50 Hz	700 ... 5 500 W
Inputs/ Outputs	
product function	
● digital inputs parameterizable	Yes
● digital outputs parameterizable	No
number of digital inputs	4
number of sockets	
● for digital output signals	0
● 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	
● minimum permissible	20.4 V
● maximum permissible	28.8 V
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	20.4 ... 28.8 V
control supply voltage 1	
● at DC rated value	20.4 ... 28.8 V
● at DC	24 ... 24 V
power loss [W] in auxiliary and control circuit	
● in switching state OFF	
— with bypass circuit	1.656 W
— without bypass circuit	1.656 W
● in switching state ON	
— with bypass circuit	6.84 W
— without bypass circuit	5.328 W
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal
fastening method	screw fixing
height	230 mm
width	110 mm
depth	160 mm
Ambient conditions	
installation altitude at height above sea level maximum	3 500 m
ambient temperature	
● during operation	-25 ... +55 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C

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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 PROFIenergy measured values	Yes
● supports PROFIenergy 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

Certificates/ approvals

General Product Approval				EMC	Declaration of Conformity
Confirmation	CCC	UL	EAC	RCM	UKCA

Declaration of Conformity	Test Certificates	other
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation

Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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=3RK1304-5LS70-3AA3
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5LS70-3AA3

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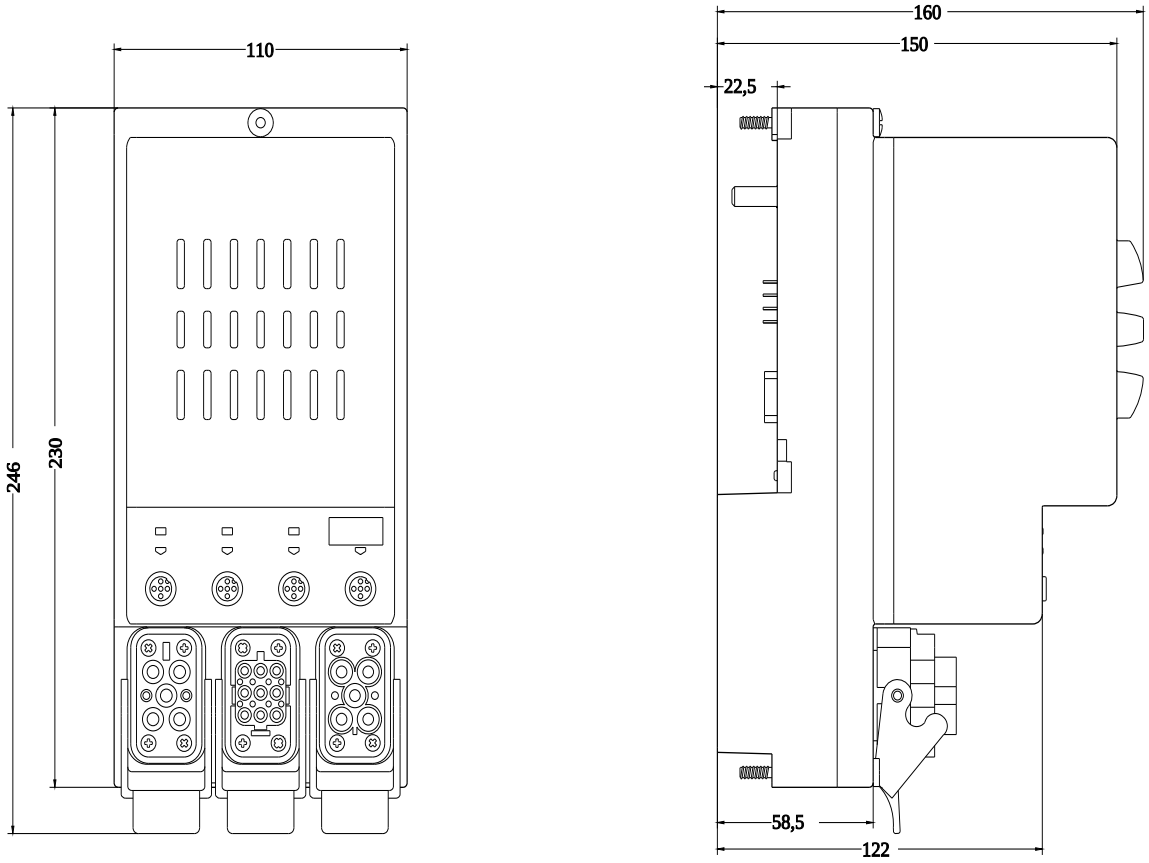
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5LS70-3AA3
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5LS70-3AA3&lang=en



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