SIEMENS

Data sheet 3RK1304-5LS70-3AA0

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 without brake contact 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	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
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	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
Operating 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

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
Mounting type	screw fixing
Height	230 mm
Width	110 mm
Depth	160 mm

Ambient conditions

Installation altitude at height above sea level	

• maximum	3 500 m
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 range 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	
• 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 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

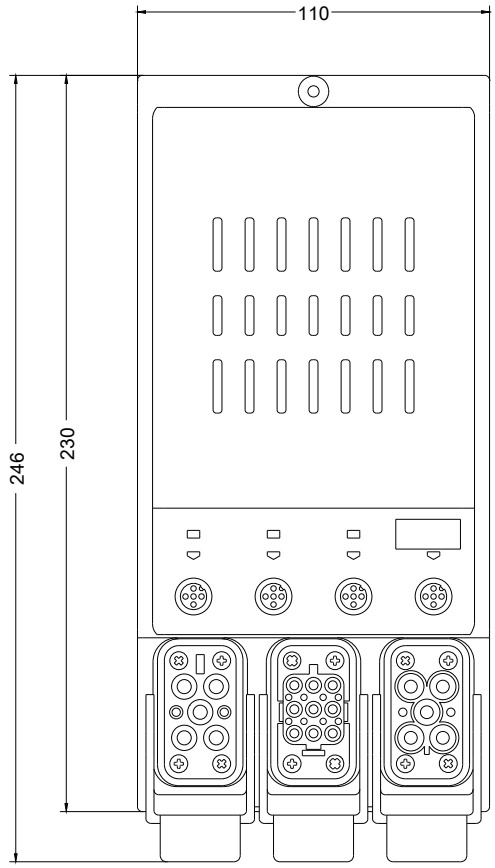
Information- and Downloadcenter (Catalogs, Brochures,…)
www.siemens.com/sirius/catalogs

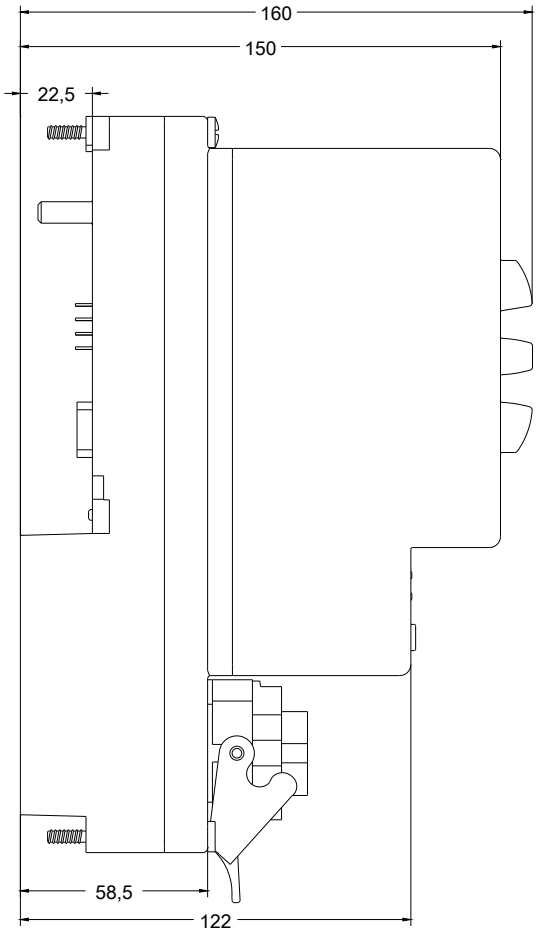
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1304-5LS70-3AA0

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1304-5LS70-3AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1304-5LS70-3AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1304-5LS70-3AA0&lang=en





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