## Data sheet

RS1-X for ET 200S Standard reversing starter expandable Setting range 0.28...0.4 A AC-3, 0.1 kW / 400 V Electromechanical starter for brake control module



Figure similar

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

General technical data	
Product function	
<ul> <li>on-site operation</li> </ul>	Yes
Power loss [W] typical	10 W
Power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	10 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.33 W
Power loss [W] for rated value of the current without	4.12 W
load current share typical	
Degree of pollution	3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V

Protection class IP	IP20
Shock resistance	5g / 11 ms
Operating frequency maximum	750 1/h
Mechanical service life (switching cycles)	
of the main contacts typical	100 000
Type of assignment	2
Reference code acc. to DIN 40719 extended	Α
according to IEC 204-2 acc. to IEC 750	
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	
<ul> <li>brake control with 230 V AC</li> </ul>	No
<ul> <li>brake control with 24 V DC</li> </ul>	No
<ul> <li>brake control with 180 V DC</li> </ul>	No
<ul> <li>brake control with 500 V DC</li> </ul>	No
Product extension braking module for brake control	Yes
Product function Short circuit protection	Yes
Design of short-circuit protection	circuit-breakers
Trip class	CLASS 10
Maximum short-circuit current breaking capacity (Icu)	
• at 400 V rated value	50 kA
Electromagnetic compatibility	
EMC emitted interference	
• acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)
EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)
Conducted interference	
<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	2 kV on voltage supply, inputs and outputs
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV (U > 24 V DC)
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV (U > 24 V DC)
Field-bound parasitic coupling acc. to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, 1.4 GHz2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
	50 %

<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	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	electromechanical
Adjustable pick-up value current of the current- dependent overload release	0.28 0.4 A
Type of the motor protection	bimetal
Operating voltage	
• rated value	200 400 V
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
Relative positive tolerance of the operating frequency	10 %
Relative negative tolerance of the operating frequency	10 %
Operating range relative to the operating voltage at AC	
● at 50 Hz	200 440 V
Operating current	
• at AC-3	
— at 400 V rated value	0.4 A
Operating power	
• at AC-3	
— at 400 V rated value	0.1 kW
Inputs/ Outputs	
Product function	
<ul> <li>digital inputs parameterizable</li> </ul>	No
<ul> <li>digital outputs parameterizable</li> </ul>	No
Number of digital inputs	0
Number of sockets	
● for digital output signals	0
for digital input signals	0
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	0.3744 W
<ul> <li>— without bypass circuit</li> </ul>	0.374 W
● in switching state ON	
— with bypass circuit	4.1184 W
— without bypass circuit	4.118 W
Installation/ mounting/ dimensions	
Mounting position	vertical, horizontal
Mounting type	pluggable on terminal module
Height	265 mm
Width	90 mm
Depth	120 mm
Ambient conditions	
Installation altitude at height above sea level	
maximum	2 000 m
Relative humidity during operation	5 95 %
C	
Communication/ Protocol  Protocol is supported	
PROFIBUS DP protocol	Yes
PROFINET protocol	
• FROFINET PIOLOCOI	Vec
	Yes
Design of the interface	
Design of the interface  • PROFINET protocol	Yes
Design of the interface  ● PROFINET protocol  Product function Bus communication	
Design of the interface  • PROFINET protocol  Product function Bus communication  Protocol is supported	Yes
Design of the interface  ● PROFINET protocol  Product function Bus communication	Yes Yes
Design of the interface  • PROFINET protocol  Product function Bus communication  Protocol is supported  • AS-Interface protocol  Product function	Yes Yes
Design of the interface  • PROFINET protocol  Product function Bus communication  Protocol is supported  • AS-Interface protocol  Product function  • supports PROFlenergy measured values	Yes Yes No
Design of the interface  • PROFINET protocol  Product function Bus communication  Protocol is supported  • AS-Interface protocol  Product function  • supports PROFlenergy measured values  • supports PROFlenergy shutdown	Yes Yes No
Design of the interface  PROFINET protocol  Product function Bus communication  Protocol is supported  AS-Interface protocol  Product function  supports PROFlenergy measured values supports PROFlenergy shutdown  address range memory of address range	Yes Yes No No No
Design of the interface  PROFINET protocol  Product function Bus communication  Protocol is supported  AS-Interface protocol  Product function  supports PROFlenergy measured values supports PROFlenergy shutdown  address range memory of address range  of the inputs	Yes Yes No No No No 1 byte
Design of the interface  PROFINET protocol  Product function Bus communication  Protocol is supported  AS-Interface protocol  Product function  supports PROFlenergy measured values supports PROFlenergy shutdown  address range memory of address range of the inputs of the outputs	Yes Yes No No No
Design of the interface  PROFINET protocol  Product function Bus communication  Protocol is supported  AS-Interface protocol  Product function  supports PROFlenergy measured values supports PROFlenergy shutdown  address range memory of address range  of the inputs	Yes Yes No No No No 1 byte

via backplane bus

Connections/ Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
Type of electrical connection	
<ul><li>1 for digital input signals</li></ul>	using control module
<ul> <li>2 for digital input signals</li> </ul>	using control module
Type of electrical connection	
<ul> <li>at the manufacturer-specific device interface</li> </ul>	plug
<ul> <li>for main energy infeed</li> </ul>	screw-type terminals
<ul> <li>for load-side outgoing feeder</li> </ul>	Screw-type terminals
<ul> <li>for main energy transmission</li> </ul>	via energy bus
<ul> <li>for supply voltage line-side</li> </ul>	via backplane bus
<ul> <li>for supply voltage transmission</li> </ul>	via backplane bus

# UL/CSA ratings

### Operating voltage

• at AC at 60 Hz acc. to CSA and UL rated value

600 V

### Certificates/ approvals

General Product Approval	EMC	For use in haz-
		ardous loca-
		tions













Declaration of (	Conformity	Test Certific- ates	other	
	Miscellaneous	Type Test Certific-	Confirmation	



Miscellaneous

Type Test Certificates/Test Report

Confirmation

#### Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

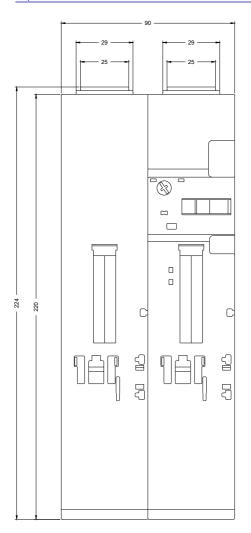
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-0EB00-1AA2

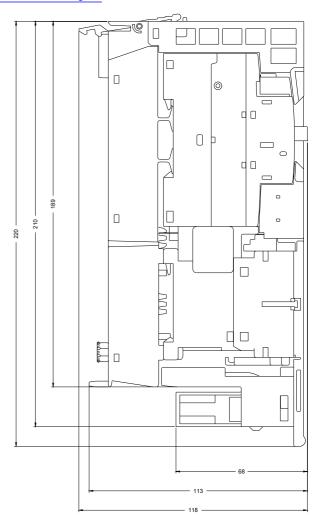
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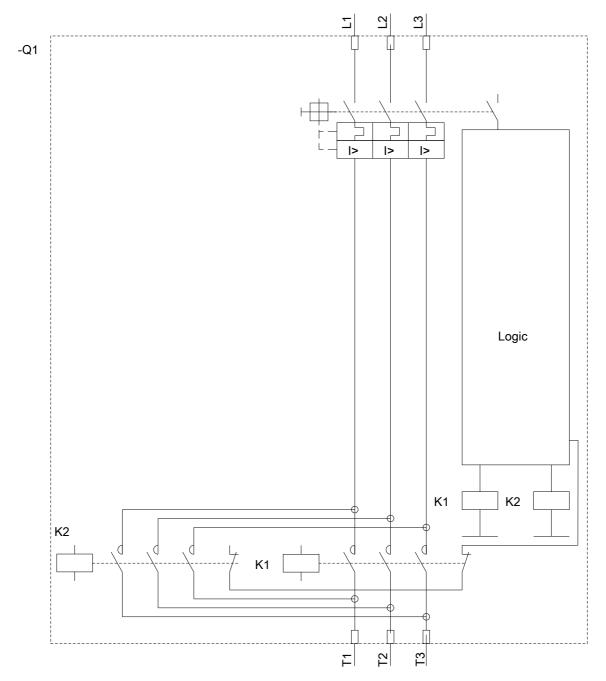
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0EB00-1AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0EB00-1AA2">https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0EB00-1AA2</a>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-0EB00-1AA2&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-0EB00-1AA2&lang=en</a>







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