



RS1-X for ET 200S Standard reversing starter expandable Setting range 2.8...4 A AC-3, 1.5 kW / 400 V Electromechanical starter for brake control module

Figure similar

<b>product brand name</b>	SIMATIC
<b>product designation</b>	Motor starters
<b>design of the product</b>	reversing starter
<b>product type designation</b>	ET 200S
<b>General technical data</b>	
<b>product function on-site operation</b>	Yes
<b>power loss [W] for rated value of the current</b>	
• at AC in hot operating state	10 W
• at AC in hot operating state per pole	3.33 W
• without load current share typical	4.12 W
<b>insulation voltage rated value</b>	500 V
<b>degree of pollution</b>	3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)
<b>surge voltage resistance rated value</b>	6 kV
maximum permissible voltage for protective separation between main and auxiliary circuit	400 V
<b>shock resistance</b>	5 g / 11 ms
<b>vibration resistance</b>	2 g
<b>operating frequency maximum</b>	750 1/h
mechanical service life (operating cycles) of the main contacts typical	100 000
<b>type of coordination</b>	1
<b>reference code according to IEC 81346-2</b>	Q
<b>Substance Prohibitance (day/month/year)</b>	10/26/2016
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1
<b>Net Weight</b>	1.38 kg
<b>product function</b>	
• direct start	No
• reverse starting	Yes
<b>product component motor brake output</b>	Yes
<b>product feature</b>	
• brake control with 230 V AC	No
• brake control with 24 V DC	No
• brake control with 180 V DC	No
• brake control with 500 V DC	No
<b>product extension braking module for brake control</b>	Yes
<b>product function short circuit protection</b>	Yes

<b>design of short-circuit protection</b>	circuit-breakers
<b>maximum short-circuit current breaking capacity (Icu)</b>	
<ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul>	50 kA
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	CISPR11, ambience A (industrial sector)
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)
<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV on voltage supply, inputs and outputs 2 kV (U > 24 V DC) 1 kV (U > 24 V DC)
<b>field-based interference according to IEC 61000-4-3</b>	80 MHz ... 1 GHz 10 V/m, 1.4 GHz ... 2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m
<b>Safety related data</b>	
<b>proportion of dangerous failures</b>	
<ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	50 % 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
<b>IEC 61508</b>	
T1 value for proof test interval or service life according to IEC 61508	20 a
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	2.8 ... 4 A
<b>type of the motor protection</b>	bimetal
operating voltage rated value	200 ... 400 V
<b>operating frequency 1 rated value</b>	50 Hz
<b>operating frequency 2 rated value</b>	60 Hz
<b>relative positive tolerance of the operating frequency</b>	10 %
<b>relative negative tolerance of the operating frequency</b>	10 %
operating range relative to the operating voltage at AC at 50 Hz	200 ... 440 V
<b>operational current</b>	
<ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> </ul>	4 A
operating power at AC-3 at 400 V rated value	1.5 kW
operating power for 3-phase motors at 400 V at 50 Hz	1.5 kW
<b>Inputs/ Outputs</b>	
<b>product function</b>	
<ul style="list-style-type: none"> <li>digital inputs parameterizable</li> <li>digital outputs parameterizable</li> </ul>	No No
<b>number of digital inputs</b>	0
<b>number of sockets</b>	
<ul style="list-style-type: none"> <li>for digital output signals</li> <li>for digital input signals</li> </ul>	0 0
<b>Supply voltage</b>	
<b>type of voltage of the supply voltage</b>	DC
<b>supply voltage 1 at DC</b>	24 V
<b>supply voltage 1 at DC rated value</b>	
<ul style="list-style-type: none"> <li>minimum permissible</li> <li>maximum permissible</li> </ul>	20.4 V 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 V

<b>power loss [W] in auxiliary and control circuit</b>	
<ul style="list-style-type: none"> <li>● <b>in switching state OFF</b> <ul style="list-style-type: none"> <li>— with bypass circuit 0.3744 W</li> <li>— without bypass circuit 0.374 W</li> </ul> </li> <li>● <b>in switching state ON</b> <ul style="list-style-type: none"> <li>— with bypass circuit 4.1184 W</li> <li>— without bypass circuit 4.118 W</li> </ul> </li> </ul>	
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	vertical, horizontal
<b>fastening method</b>	pluggable on terminal module
<b>height</b>	265 mm
<b>width</b>	90 mm
<b>depth</b>	120 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>● during operation 0 ... 60 °C</li> <li>● during storage -40 ... +70 °C</li> <li>● during transport -40 ... +70 °C</li> </ul>	
relative humidity during operation	5 ... 95 %
<b>Communication/ Protocol</b>	
<b>protocol is supported</b>	
<ul style="list-style-type: none"> <li>● PROFIBUS DP protocol Yes</li> <li>● PROFINET protocol Yes</li> </ul>	
design of the interface PROFINET protocol	Yes
<b>product function bus communication</b>	Yes
protocol is supported AS-Interface protocol	No
<b>product function</b>	
<ul style="list-style-type: none"> <li>● supports PROFlenergy measured values No</li> <li>● supports PROFlenergy shutdown No</li> </ul>	
<b>address space memory of address range</b>	
<ul style="list-style-type: none"> <li>● of the inputs 1 byte</li> <li>● of the outputs 1 byte</li> </ul>	
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>● of the communication interface via backplane bus</li> <li>● for communication transmission via backplane bus</li> </ul>	
<b>Connections/ Terminals</b>	
type of electrical connection for main current circuit	screw-type terminals
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>● 1 for digital input signals using control module</li> <li>● 2 for digital input signals using control module</li> </ul>	
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>● at the manufacturer-specific device interface plug</li> <li>● for main energy infeed screw-type terminals</li> <li>● for load-side outgoing feeder Screw-type terminals</li> <li>● for main energy transmission via energy bus</li> <li>● for supply voltage line-side via backplane bus</li> <li>● for supply voltage transmission via backplane bus</li> </ul>	
<b>UL/CSA ratings</b>	
operating voltage at AC at 60 Hz according to CSA and UL rated value	600 V
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	EMV



For use in hazardous locations	Test Certificates	other	Dangerous goods	Environment
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Transport Information](#)

[Environmental Confirmations](#)

**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=3RK1301-1EB00-1AA2>

Cax online generator

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

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

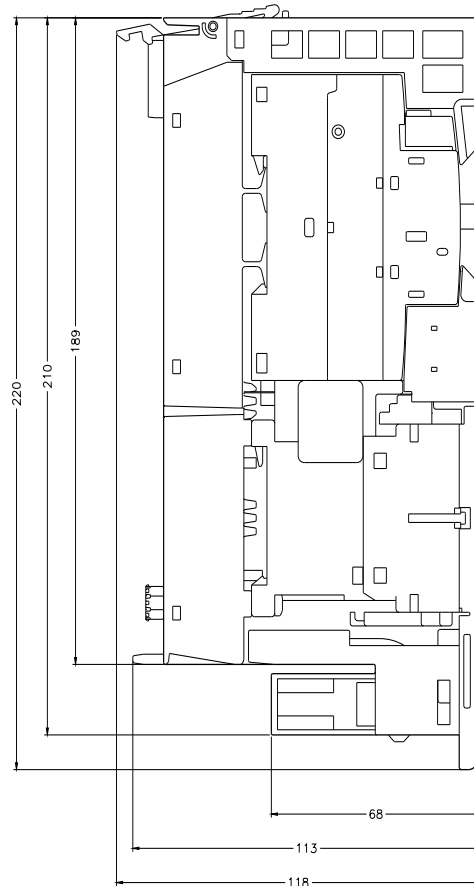
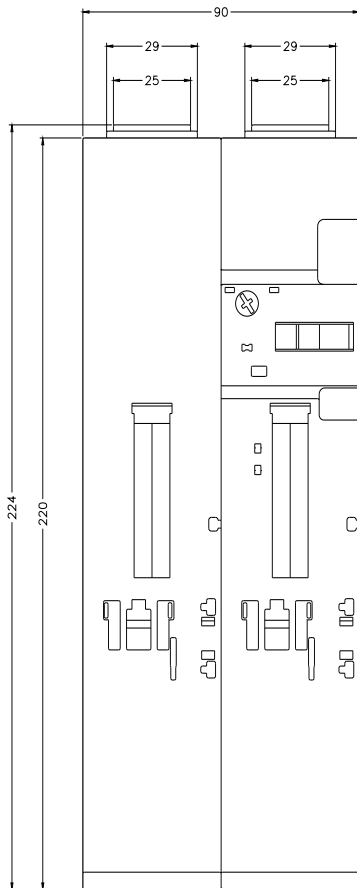
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1EB00-1AA2>

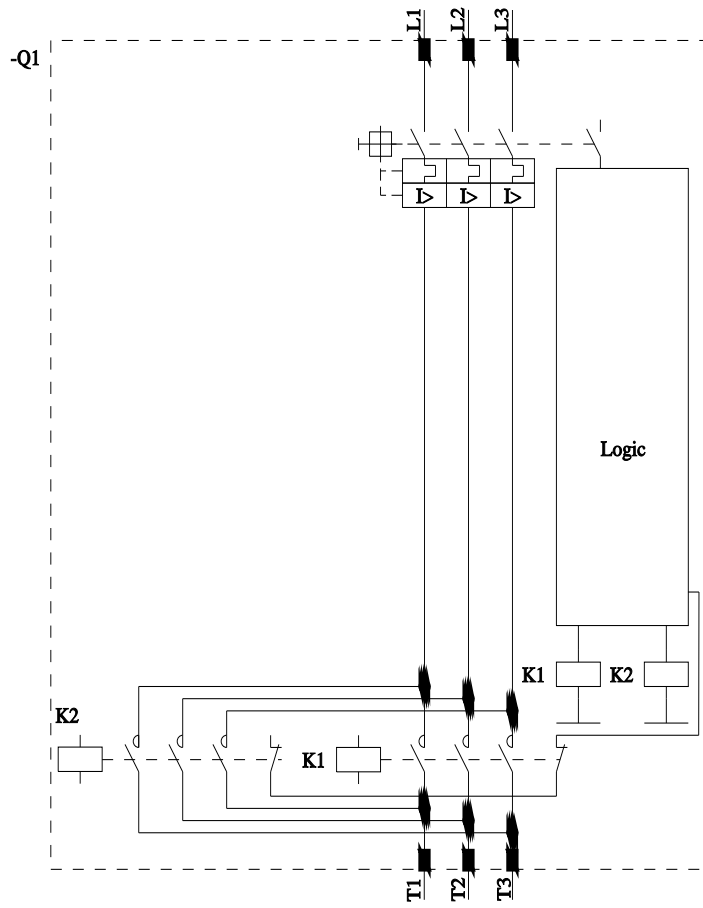
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-1EB00-1AA2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1EB00-1AA2&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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