



Figure similar

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

<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>trip class</b>	CLASS 10
product function on-site operation	Yes
power loss [W] for rated value of the current at AC in hot operating state	10 W
• per pole	3.33 W
<b>power loss [W] for rated value of the current without load current share typical</b>	4.12 W
insulation voltage rated value	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 safe isolation between main and auxiliary circuit	400 V
<b>shock resistance</b>	5g / 11 ms
<b>vibration resistance</b>	2g
<b>operating frequency maximum</b>	750 1/h
mechanical service life (switching cycles) of the main contacts typical	100 000
<b>type of assignment</b>	1
<b>reference code acc. to IEC 81346-2</b>	Q
Substance Prohibitance (Date)	26.10.2016 00:00:00
<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>breaking capacity maximum short-circuit current (Icu)</b>	

• at 400 V rated value	50 kA
<b>Electromagnetic compatibility</b>	
EMC emitted interference acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)
<b>EMC immunity acc. to IEC 60947-1</b>	corresponds to degree of severity 3, ambience A (industrial sector)
<b>conducted interference</b>	
• due to burst acc. to IEC 61000-4-4	2 kV on voltage supply, inputs and outputs
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (U > 24 V DC)
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (U > 24 V DC)
<b>field-based interference acc. 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>	
B10 value with high demand rate acc. to SN 31920	1 000 000
<b>proportion of dangerous failures</b>	
• with low demand rate acc. to SN 31920	50 %
• with high demand rate acc. to SN 31920	75 %
<b>failure rate [FIT]</b>	
• with low demand rate acc. to SN 31920	100 FIT
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	20 y
<b>protection class IP on the front acc. to IEC 60529</b>	IP20
<b>touch protection on the front acc. 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>	
• at AC-3 at 400 V rated value	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 ... 1.5 kW
<b>Inputs/ Outputs</b>	
<b>product function</b>	
• digital inputs parameterizable	No
• digital outputs parameterizable	No
<b>number of digital inputs</b>	0
<b>number of sockets</b>	
• for digital output signals	0
• for digital input signals	0
<b>Supply voltage</b>	
<b>type of voltage of the supply voltage</b>	DC
<b>supply voltage 1 at DC</b>	24 ... 24 V
<b>supply voltage 1 at DC rated value</b>	
• minimum permissible	20.4 V
• maximum permissible	28.8 V
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	DC
control supply voltage at DC rated value	20.4 ... 28.8 V
<b>control supply voltage 1</b>	
• at DC rated value	20.4 ... 28.8 V
• at DC	24 ... 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</li><li>— without bypass circuit</li></ul></li><li>• <b>in switching state ON</b><ul style="list-style-type: none"><li>— with bypass circuit</li><li>— without bypass circuit</li></ul></li></ul>	0.3744 W 0.374 W  4.1184 W 4.118 W	
<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</li><li>• during storage</li><li>• during transport</li></ul>	0 ... 60 °C -40 ... +70 °C -40 ... +70 °C	
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</li><li>• PROFINET protocol</li></ul>	Yes Yes	
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 PROFIenergy measured values</li><li>• supports PROFIenergy shutdown</li></ul>	No No	
<b>address space memory of address range</b> <ul style="list-style-type: none"><li>• of the inputs</li><li>• of the outputs</li></ul>	1 byte 1 byte	
<b>type of electrical connection</b> <ul style="list-style-type: none"><li>• of the communication interface</li><li>• for communication transmission</li></ul>	via backplane bus via backplane bus	
<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</li><li>• 2 for digital input signals</li></ul>	using control module using control module	
<b>type of electrical connection</b> <ul style="list-style-type: none"><li>• at the manufacturer-specific device interface</li><li>• for main energy infeed</li><li>• for load-side outgoing feeder</li><li>• for main energy transmission</li><li>• for supply voltage line-side</li><li>• for supply voltage transmission</li></ul>	plug screw-type terminals Screw-type terminals via energy bus via backplane bus via backplane bus	
<b>UL/CSA ratings</b>		
operating voltage at AC at 60 Hz acc. to CSA and UL rated value	600 V	
<b>Certificates/ approvals</b>		
<b>General Product Approval</b>	<b>EMC</b>	<b>For use in hazardous locations</b>



Declaration of  
Conformity

Test Certificates

other



EG-Konf.

[Type Test Certificates/Test Report](#)

[Confirmation](#)

#### Further information

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

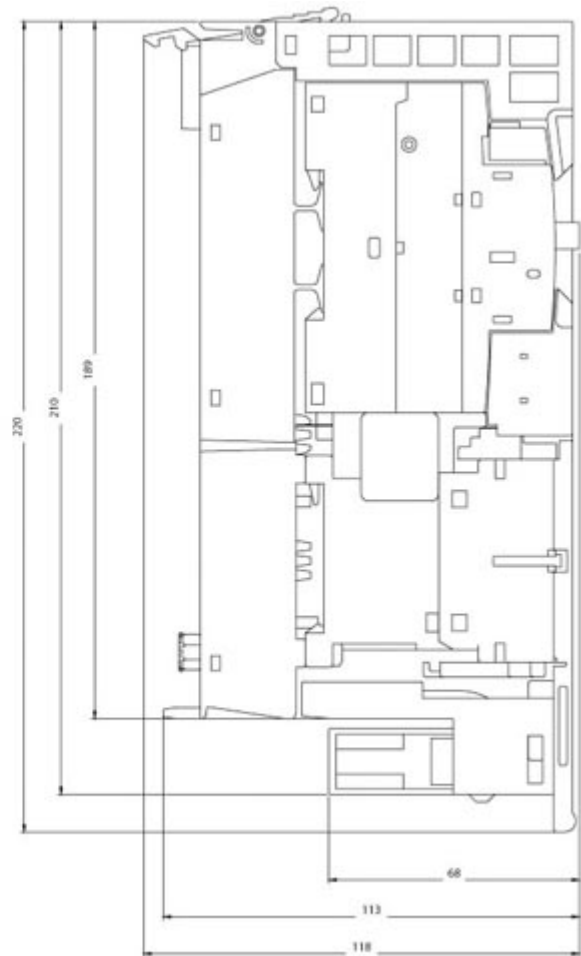
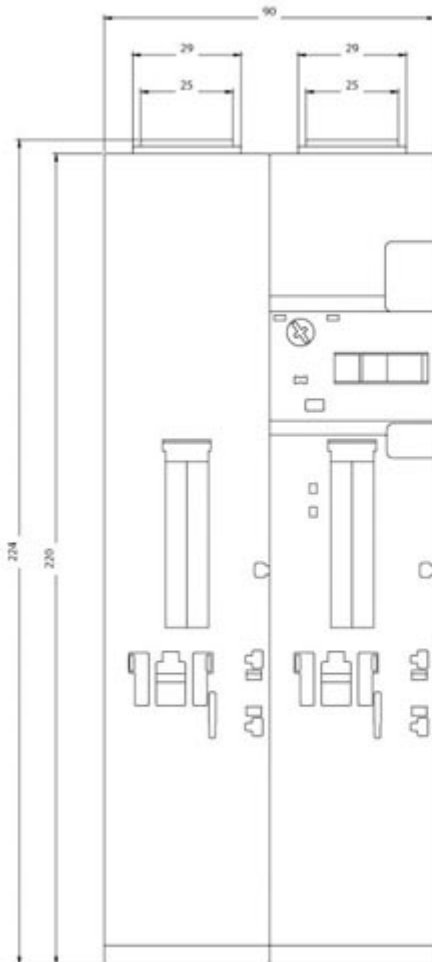
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1EB00-1AA2>

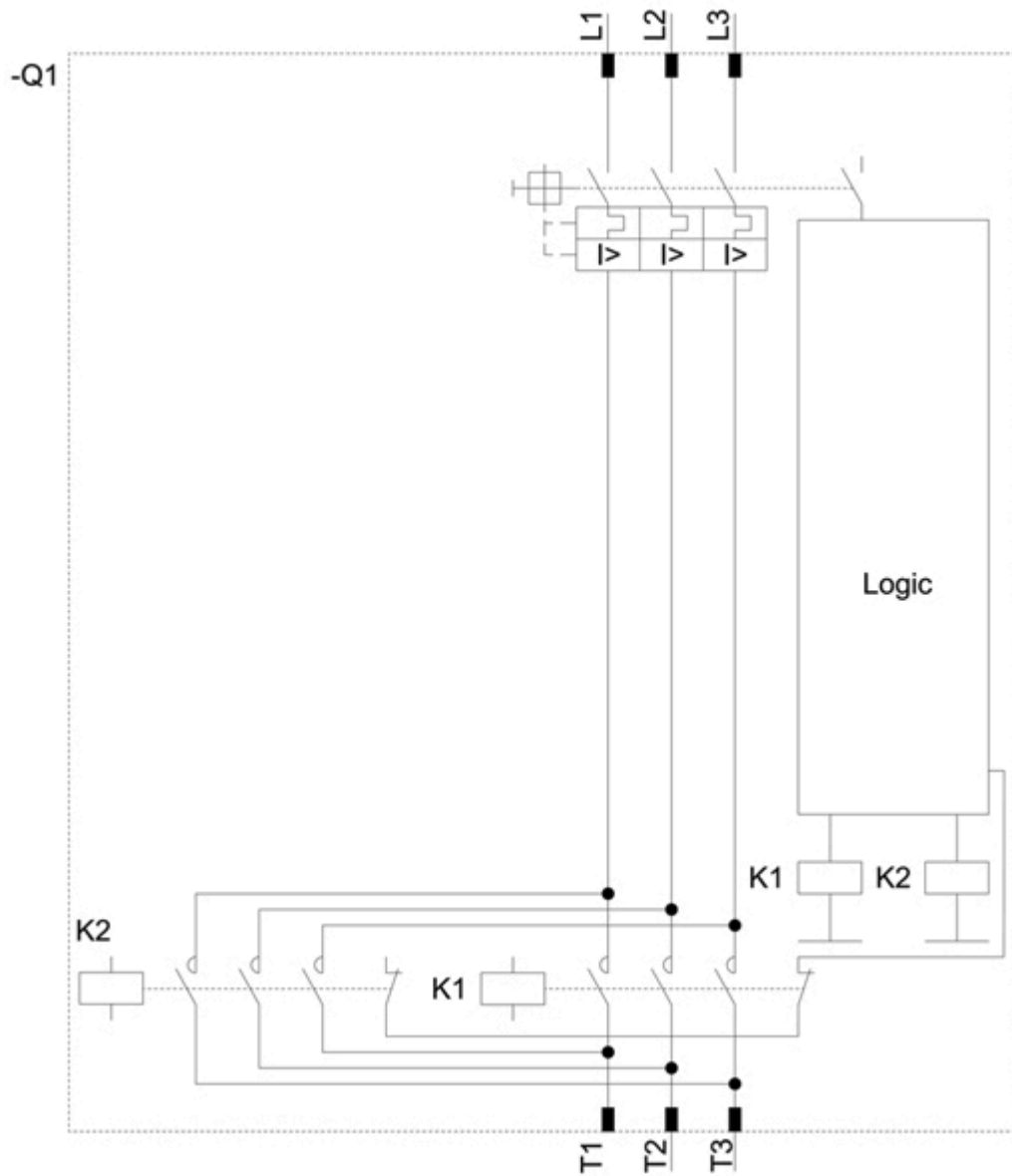
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<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, ...)

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





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12/15/2020 [🔗](#)