









Figure similar

RS1-X for ET 200S Standard reversing starter expandable Setting range 9...12 A  
AC-3, 5.5 kW / 400 V Electromechanical starter for brake control module

product brand name	SIMATIC
product designation	Motor starters
design of the product	reversing starter
product type designation	ET 200S
<b>General technical data</b>	
product function on-site operation	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	11 W
• at AC in hot operating state per pole	3.67 W
• without load current share typical	4.12 W
insulation voltage rated value	500 V
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 protective separation between main and auxiliary circuit	400 V
shock resistance	5g / 11 ms
vibration resistance	2g
operating frequency maximum	750 1/h
mechanical service life (operating cycles) of the main contacts typical	100 000
type of coordination	1
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/26/2016
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	1.4 kg
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 24 V DC	No
• brake control with 180 V DC	No
• brake control with 500 V DC	No
product extension braking module for brake control	Yes
product function short circuit protection	Yes
design of short-circuit protection	circuit-breakers
maximum short-circuit current breaking capacity (Icu)	

• at 400 V rated value	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>	
• due to burst according to IEC 61000-4-4	2 kV on voltage supply, inputs and outputs
• due to conductor-earth surge according to IEC 61000-4-5	2 kV (U > 24 V DC)
• due to conductor-conductor surge according to IEC 61000-4-5	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 GHz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m
<b>Safety related data</b>	
<b>proportion of dangerous failures</b>	
• with low demand rate according to SN 31920	50 %
• with high demand rate according to SN 31920	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>	9 ... 12 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	12 A
operating power at AC-3 at 400 V rated value	5.5 kW
operating power for 3-phase motors at 400 V at 50 Hz	5.5 ... 5.5 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
<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 ... 24 V
<b>power loss [W] in auxiliary and control circuit</b>	
• in switching state OFF	
— with bypass circuit	0.3744 W
— without bypass circuit	0.374 W

<ul style="list-style-type: none"><li>• in switching state ON<ul style="list-style-type: none"><li>— with bypass circuit</li><li>— without bypass circuit</li></ul></li></ul>	4.1184 W			
	4.118 W			
Installation/ mounting/ dimensions				
mounting position	vertical, horizontal			
fastening method	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			
ambient temperature <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 %			
Communication/ Protocol				
protocol is supported <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			
product function bus communication	Yes			
protocol is supported AS-Interface protocol	No			
product function <ul style="list-style-type: none"><li>• supports PROFIenergy measured values</li><li>• supports PROFIenergy shutdown</li></ul>	No No			
address space memory of address range <ul style="list-style-type: none"><li>• of the inputs</li><li>• of the outputs</li></ul>	1 byte 1 byte			
type of electrical connection <ul style="list-style-type: none"><li>• of the communication interface</li><li>• for communication transmission</li></ul>	via backplane bus via backplane bus			
Connections/ Terminals				
type of electrical connection for main current circuit	screw-type terminals			
type of electrical connection <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			
type of electrical connection <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			
UL/CSA ratings				
operating voltage at AC at 60 Hz according to CSA and UL rated value	600 V			
Approvals Certificates				
General Product Approval				
EMV				
<div><div> CCC</div><div></div><div> EG-Konf.</div><div> UL</div><div></div><div> RCM</div></div>				
For use in hazardous locations	Test Certificates	other	Dangerous goods	Environment



#### 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=3RK1301-1KB00-1AA2>

##### Cax online generator

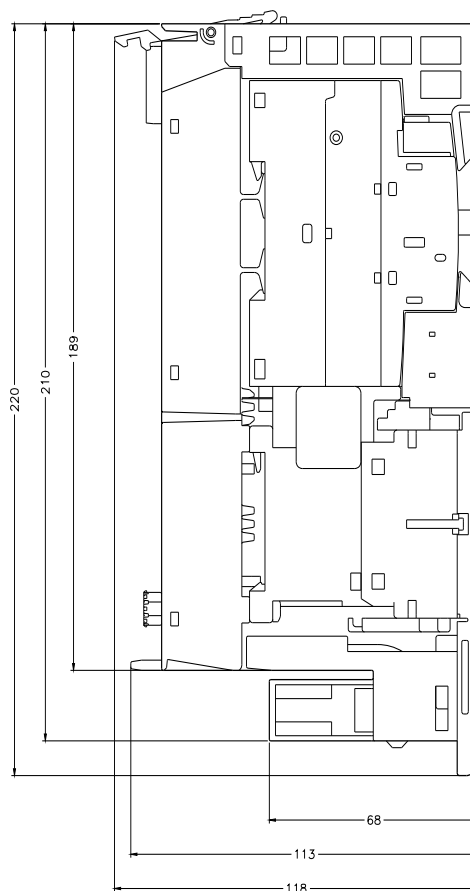
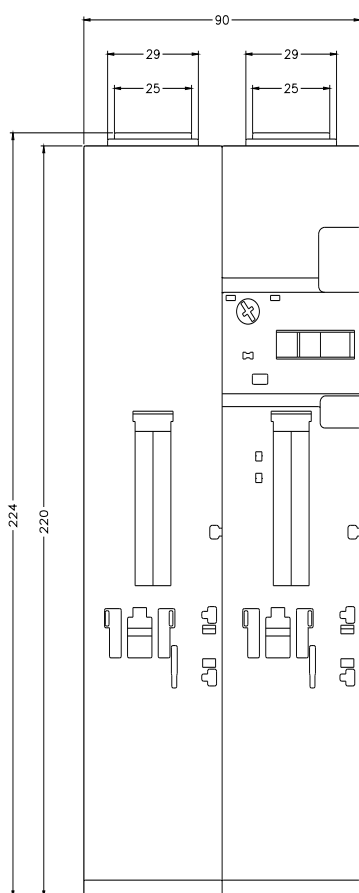
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1KB00-1AA2>

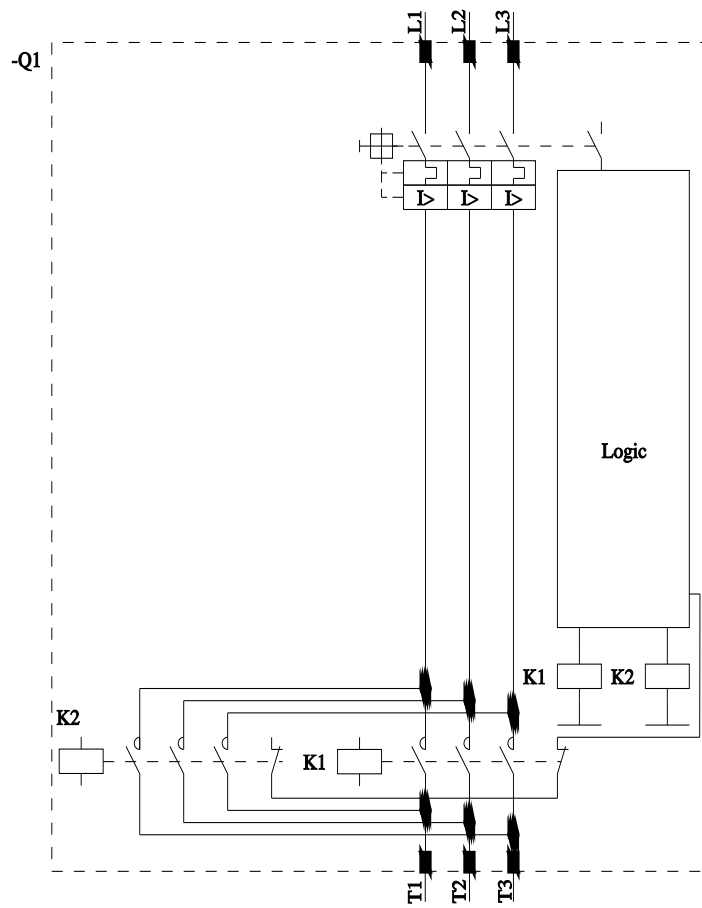
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1KB00-1AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-1KB00-1AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1KB00-1AA2&lang=en)





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