## SIEMENS

## Data sheet

## 3RK1301-1CB00-0AA2



DS1-X for ET 200S Standard DOL starter expandable Setting range 1.8...2.5 A AC-3, 0.9 kW /400 V Electromechanical starter for brake control module

Fi	a	ur	e	Si	im	il	ar

product brand name	SIMATIC		
product designation	Motor starters		
design of the product	direct starter		
product type designation	ET 200S		
General technical data			
product function on-site operation	Yes		
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 assignment	1		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/26/2016		
product function			
direct start	Yes		
reverse starting	No		
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		
maximum short-circuit current breaking capacity (lcu)			
• at 400 V rated value	50 kA		
Electromagnetic compatibility			
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)		
conducted interference			
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV on voltage supply, inputs and outputs		
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV (U > 24 V DC)		
<ul> <li>due to conductor-conductor surge according to IEC</li> </ul>	1 kV (U > 24 V DC)		

C1000.4 F				
61000-4-5				
field-based interference according 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 according to SN 31920	1 000 000			
proportion of dangerous failures				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %			
with high demand rate according to SN 31920	75 %			
failure rate [FIT]				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	100 FIT			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe			
Main circuit				
number of poles for main current circuit	3			
design of the switching contact	electromechanical			
adjustable current response value current of the current- dependent overload release	1.8 2.5 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			
operational current				
at AC-3 at 400 V rated value	2.5 A			
operating power at AC-3 at 400 V rated value	0.9 kW			
operating power for 3-phase motors at 400 V at 50 Hz	0.9 0.9 kW			
Inputs/ Outputs	0.5 0.5			
product function	A la			
digital inputs parameterizable	No			
digital outputs parameterizable	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				
<ul> <li>minimum permissible</li> </ul>	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			
— without bypass circuit	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			
	pluggable on terminal module			
fastening method	265 mm			
height	205 mm 45 mm			
width	45 mm 120 mm			
depth				

Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
during operation	0 60 °C			
during storage	-40 +70 °C			
during starage     during transport	-40 +70 °C			
relative humidity during operation	5 95 %			
Communication/ Protocol	0			
protocol is supported	Voo			
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				
<ul> <li>supports PROFlenergy measured values</li> </ul>	No			
supports PROFlenergy shutdown	No			
address space memory of address range				
<ul> <li>of the inputs</li> </ul>	1 byte			
of the outputs	1 byte			
type of electrical connection				
<ul> <li>of the communication interface</li> </ul>	via backplane bus			
<ul> <li>for communication transmission</li> </ul>	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			
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 according to CSA and UL	600 V			
rated value				
Certificates/ approvals				
General Product Approval			EMC	
Confirmatio	<u> </u>		<b>A</b>	
	(VL)	FHI		
		LIIL	RCM	
	02		100.00	
For use in hazard-	<b>a 4</b> 1	Dennessee		
ous locations Declaration of Conformity	other	Dangerous Good		
	Confirmation	Transport Information		
	<u></u>			
ATEX EG-Konf.				

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

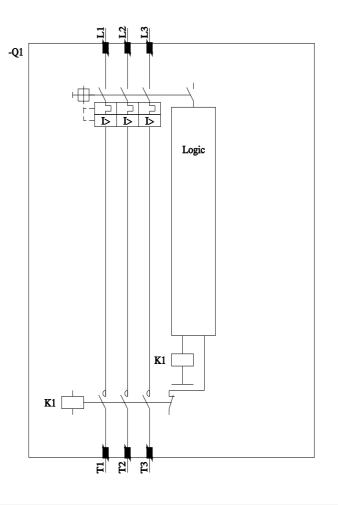
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1CB00-0AA2

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1CB00-0AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1CB00-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-1CB00-0AA2&lang=en



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