3RK1301-0CB10-0AB4

## **Data sheet**



DS1E-X for ET200S High Feature DOL starter Setting range 2.4...16 A Mechanical switching Electronic protection AC-3, up to 7.5 kW / 400 V expandable for Brake control module 2DI module 2DI module Motor starter ES Circuit breaker signaling parameterizable DPV 1-capable PROFIENERGY-capable to PN

product brand name	SIMATIC			
product designation	Motor starters			
design of the product	direct starter			
product type designation	ET 200S			
General technical data				
trip class	CLASS 5, 10, 15, 20			
product function on-site operation	Yes			
power loss [W] for rated value of the current at AC in hot operating state	18 W			
• per pole	6 W			
power loss [W] for rated value of the current without load current share typical	6.36 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 safe isolation between main and auxiliary circuit	400 V			
shock resistance	5g / 11 ms			
vibration resistance	2g			
mechanical service life (switching cycles) of the main contacts typical	100 000			
type of assignment	2			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	28.05.2009 00:00:00			
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			
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			
breaking capacity maximum short-circuit current (Icu)				
• at 400 V rated value	50 kA			
Electromagnetic compatibility				

EMC emitted interference acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)		
EMC 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-based interference 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			
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %		
with high demand rate acc. to SN 31920	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 class IP on the front acc. to IEC 60529	IP20		
touch protection on the front acc. 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	2.4 16 A		
type of the motor protection	solid-state		
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	16 A		
operating power at AC-3 at 400 V rated value	7.5 kW		
operating power for 3-phase motors at 400 V at 50 Hz	1.1 7.5 kW		
Inputs/ Outputs			
product function			
<ul> <li>digital inputs parameterizable</li> </ul>	Yes		
<ul> <li>digital outputs parameterizable</li> </ul>	No		
number of digital inputs	2		
number of sockets			
<ul> <li>for digital output signals</li> </ul>	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		

fastening method	<ul> <li>pluggable on terminal modu</li> </ul>	ile	
height	290 mm		
width	65 mm		
depth	150 mm		
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 transport	-40 +70 °C		
relative humidity during operation	5 95 %		
Communication/ Protocol			
protocol is supported			
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>	Yes		
supports PROFlenergy shutdown	Yes		
address space memory of address range			
• of the inputs	2 byte		
of the outputs	2 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		
<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		ЕМС	Declaration of Conformity













**Test Certificates** 

other

Type Test Certificates/Test Report

Confirmation



Profibus

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

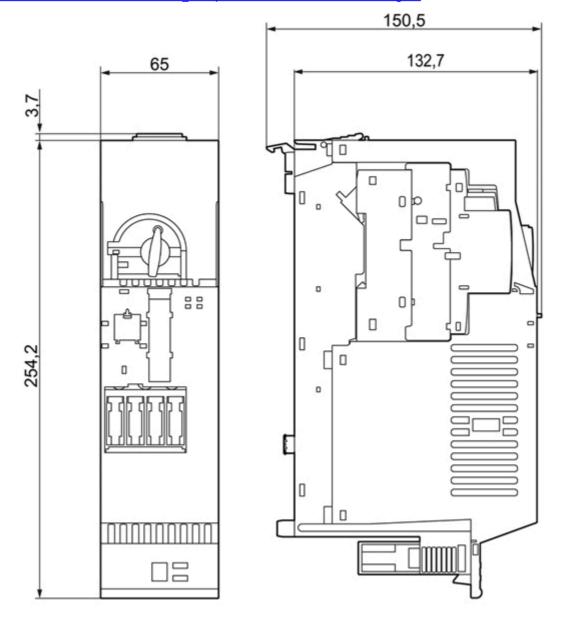
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-0CB10-0AB4

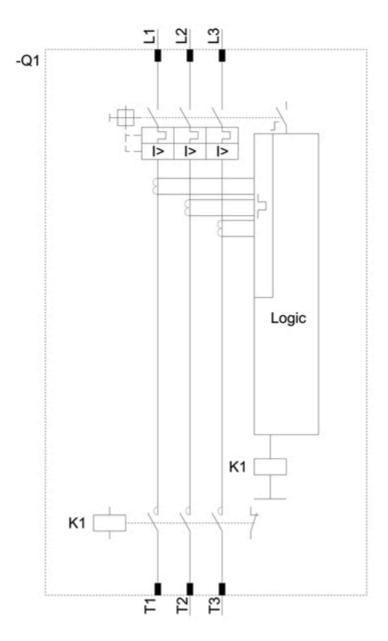
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB10-0AB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB10-0AB4

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=3RK1301-0CB10-0AB4&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-0CB10-0AB4&lang=en</a>





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