Data sheet

3RK1301-0BB10-1AB4



RS1E-X for ET200S High Feature reversing starter Setting range 2.4...8 A Mechanical switching Electronic protection AC-3, up to 3 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	reversing starter
product type designation	ET 200S
General technical data	
product function on-site operation	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	10 W
 at AC in hot operating state per pole 	3.33 W
 without load current share typical 	5.28 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
mechanical service life (operating cycles) of the main contacts typical	100 000
type of assignment	2
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 Lead titanium zirconium oxide - 12626-81-2
Weight	2.5 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
Electromagnetic compatibility	

EMO 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OLODDA4 III A (I I I I I I I I I I I I I I I I
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	
due to burst according to IEC 61000-4-4 due to conductor parts surge according to IEC 61000.4.5.	2 kV (ILS 24 V DC)
due to conductor-earth surge according to IEC 61000-4-5 due to conductor conductor surge according to IEC.	2 kV (U > 24 V DC)
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (U > 24 V DC)
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	
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
with high demand rate according to SN 31920	75 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
IEC 61508	
T1 value for proof test interval or service life according to IEC	20 a
61508	
Electrical Safety	
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	2.4 8 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	8 A
operating power at AC-3 at 400 V rated value	3 kW
operating power for 3-phase motors at 400 V at 50 Hz	1.1 3 kW
Inputs/ Outputs	
product function	V
digital inputs parameterizable	Yes
digital outputs parameterizable	No 2
number of digital inputs number of sockets	
for digital output signals	0
for digital input signals 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	
minimum permissible	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
control supply voltage 1 at DC	24 24 V
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal
fastening method	pluggable on terminal module
height	290 mm
width	130 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	
 supports PROFlenergy measured values 	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	
 of the communication interface 	via backplane bus
 for communication transmission 	via backplane bus
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of electrical connection	
 1 for digital input signals 	using control module
2 for digital input signals	using control module
type of electrical connection	
 at the manufacturer-specific device interface 	plug
 for main energy infeed 	screw-type terminals
 for load-side outgoing feeder 	Screw-type terminals
 for main energy transmission 	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 rated value	600 V
Approvals Certificates	

Approvals Certificates

General Product Approval





Confirmation







Test Certificates other Environment

Type Test Certificates/Test Report

Special Test Certificate

Confirmation



Siemens EcoTech



Environmental Confirmations

urther information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

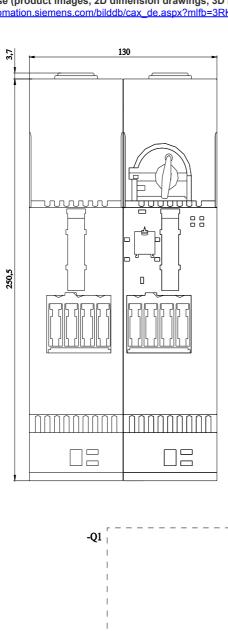
Industry Mall (Online ordering system)

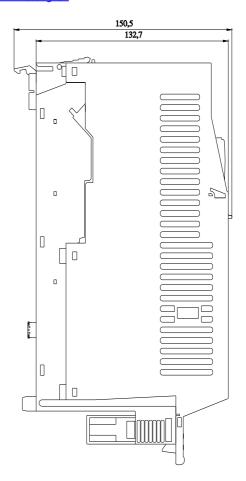
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-0BB10-1AB4

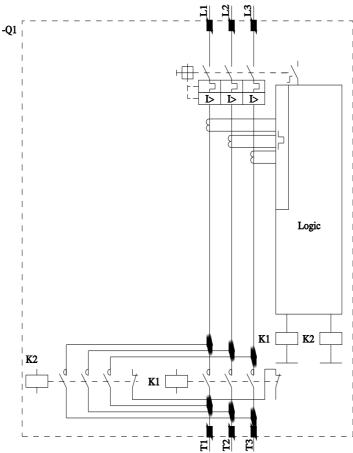
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0BB10-1AB4

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0BB10-1AB4&lang=en







last modified: 3/11/2024 🖸