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Data sheet 3RK1301-0CB13-1AA4



F-RS1E-X for ET 200S Failsafe reversing 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 control module Circuit breaker signaling parameterizable

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	18 W
● at AC in hot operating state per pole	6 W
● without load current share typical	4.44 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	5 g / 11 ms
vibration resistance	2 g
operating frequency maximum	80 1/h
mechanical service life (operating cycles) of the main contacts typical	100 000
type of coordination	2
reference code according to IEC 81346-2	Q
Substance Prohibitance (day/month/year)	10/26/2016
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	2.349 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

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design of short-circuit protection	circuit-breakers
maximum short-circuit current breaking capacity (Icu)	
● 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	
● 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)
field-based interference according to IEC 61000-4-3	80 MHz ... 1 GHz 10 V/m, 1.4 GHz ...2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m
Safety related data	
safe state	Load circuit open
stop category according to IEC 60204-1	0
failure rate [FIT] at rate of recognizable hazardous failures (λdd)	3 800 FIT
failure rate [FIT] at rate of non-recognizable hazardous failures (λdu)	25 FIT
average diagnostic coverage level (DCavg)	99 %
MTBF	11 a
MTTFd	31 a
IEC 62061	
PFHD with high demand rate according to IEC 62061	1.8E-9 1/h
IEC 61508	
safety device type according to IEC 61508-2	Type B
PFDavg with low demand rate according to IEC 61508	8E-5
Safe failure fraction (SFF)	99.5 %
hardware fault tolerance according to IEC 61508	1
T1 value for proof test interval or service life according to IEC 61508	10 a
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 ... 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	
● digital inputs parameterizable	Yes
● digital outputs parameterizable	No
number of digital inputs	2
number of sockets	
● for digital output signals	0
● for digital input signals	0
Supply voltage	
type of voltage of the supply voltage	DC

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supply voltage 1 at DC	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	21.6 ... 26.4 V
control supply voltage 1 at DC rated value	21.6 ... 26.4 V
control supply voltage 1 at DC	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
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 terminal
● 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	

General Product Approval					EMV
CCC	UL	EAC	CE EG-Konf.	UKCA	RCM

Functional Saftey	Test Certificates	other	Dangerous goods	Environment

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Type Examination Certificate | Type Test Certificates/Test Report | Confirmation | Transport Information | Environmental Confirmations



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=3RK1301-0CB13-1AA4
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB13-1AA4
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB13-1AA4
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB13-1AA4&lang=en
Kennlinien
https://curves.simaris.siemens.com/curves/3RK1301-0CB13-1AA4

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