SIEMENS

Data sheet

3RK1301-1GB00-0AA2



DS1-X for ET 200S Standard DOL starter expandable Setting range 4.5...6.3 A AC-3, 2.2 kW / 400 V Electromechanical starter for brake control module

Figure similar

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	
 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	
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 	1 kV (U > 24 V DC)

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	00 MHz 1 GHZ 10 VMI, 1.4 GHZZ HZ 0 VMI, Z GHZ Z.7 GHZ 1 VMI
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
with low demand rate according to SN 31920	50 %
· ·	75 %
with high demand rate according to SN 31920 failure rate [EIT]	15 76
failure rate [FIT]	400 FIT
with low demand rate according to SN 31920 With a start of the start of t	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	4.5 6.3 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	6.3 A
operating power at AC-3 at 400 V rated value	2.2 kW
operating power for 3-phase motors at 400 V at 50 Hz	2.2 2.2 kW
Inputs/ Outputs	
product function	
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	
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
• at DC	24 24 V
power loss [W] in auxiliary and control circuit	
• in switching state OFF	
— with bypass circuit	0.3744 W
with bypass circuit - without bypass circuit	0.374 W
• in switching state ON	····
— with bypass circuit	4.1184 W
with bypass circuit - without bypass circuit	4.116 W
Installation/ mounting/ dimensions	7.110 W
	vertical harizantal
mounting position	vertical, horizontal
fastening method	pluggable on terminal module
height	265 mm
MATERIAL	
width depth	45 mm 120 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 	No
 supports PROFlenergy shutdown 	No
address space memory of address range	
 of the inputs 	1 byte
of the outputs	1 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
Certificates/ approvals	

General Product Approval







Confirmation







For use in hazardous locations

Declaration of Conformity

other

Dangerous Good







Confirmation

Transport Information

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

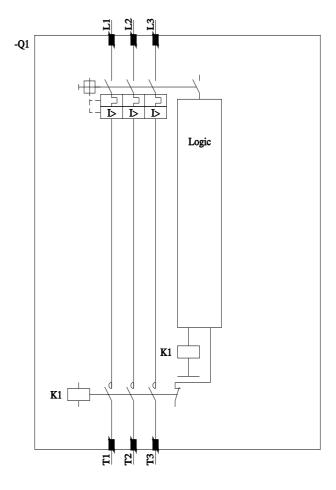
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1GB00-0AA2

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1GB00-0AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1GB00-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1GB00-0AA2&lang=en



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