## SIEMENS

## Data sheet

## 3RK1301-1FB00-0AA2



DS1-X for ET 200S Standard DOL starter expandable Setting range 3.5...5 A AC-3, 1.9 kW /400 V Electromechanical starter for brake control module

Fig	ure	sim	ilar

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	
• due to conductor-earth surge according to IEC 61000-4-5	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	3.5 4 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			
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	5 A		
operating power at AC-3 at 400 V rated value	1.9 kW		
operating power for 3-phase motors at 400 V at 50 Hz	1.9 1.9 kW		
Inputs/ Outputs			
product function			
digital inputs parameterizable	No		
digital inputs 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		
minimum permissible     maximum permissible	20.4 V 28.8 V		
maximum permissible Control circuit/ Control	20.0 V		
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	20.4 20.01/		
• 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	0.0744.04		
— 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		
fastening method	pluggable on terminal module		
height	265 mm		
width	45 mm		
depth	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	000 /0			
protocol is supported				
PROFIBUS DP protocol	Yes			
PROFINET protocol	Yes			
design of the interface PROFINET protocol	-			
product function bus communication	Yes			
-	-			
protocol is supported AS-Interface protocol	No			
product function	N.L.			
supports PROFlenergy measured values	No			
supports PROFlenergy shutdown	No			
address space memory of address range	1 huto			
• 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				
<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 according to CSA and UL	600 V			
rated value				
Certificates/ approvals				
General Product Approval			EMC	
			-	
Confirmation	<sup>20</sup>	rnr	A	
	<sup>2n</sup> (h)	FAL	$\bigotimes$	
		EAC		
		EHC	RCM	
		EHC	RCM	
For use in hazard-	(Ų)	ERIC Dangerous Good	RCM	
	on UL Other	<b>Dangerous Good</b>	RCM	
For use in hazard- ous locations Declaration of Conformity	other		RCM	
For use in hazard- ous locations Declaration of Conformity	other	Dangerous Good	RCM	
For use in hazard- ous locations Declaration of Conformity	other		RCM	
For use in hazard-	other		RCM	
For use in hazard- ous locations Declaration of Conformity	other		RCM	

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

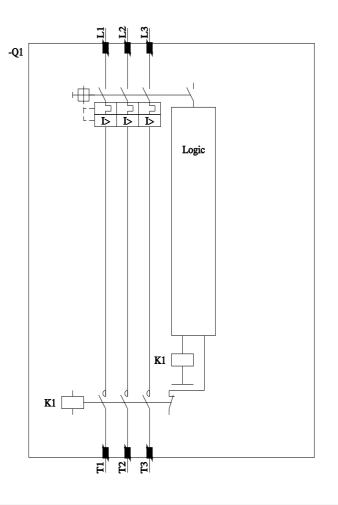
Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1FB00-0AA2

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1FB00-0AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1FB00-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-1FB00-0AA2&lang=en



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