SIEMENS

Data sheet

3RK1301-0BB00-0AA2



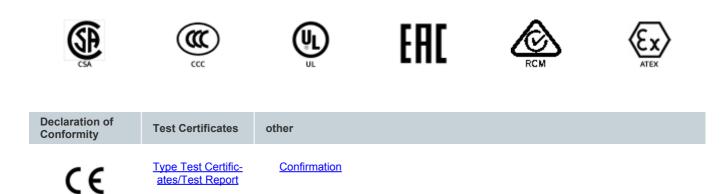
DS1-X for ET 200S Standard DOL starter expandable Setting range 0.14...0.2 A, AC-3, up to 0.06 kW / 400 V Electromechanical starter for brake control module

Figure	similar

product brand name	SIMATIC		
product designation	Motor starters		
design of the product	direct starter		
product type designation	ET 200S		
General technical data			
trip class	CLASS 10		
product function on-site operation	Yes		
power loss [W] for rated value of the current at AC in hot operating state	9 W		
• per pole	3 W		
power loss [W] for rated value of the current without load current share typical	4.12 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		
operating frequency maximum	750 1/h		
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)	26.10.2016 00:00:00		
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		
breaking capacity maximum short-circuit current (lcu)			

a at 400 V rated value	50 kA	
• 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		
• due to burst acc. to IEC 61000-4-4	2 kV on voltage supply, inputs and outputs	
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (U > 24 V DC)	
due to conductor-conductor surge acc. to IEC 61000-4-5	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		
with low demand rate acc. to SN 31920	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	0.14 0.2 A	
current-dependent overload release		
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	0.2 A	
operating power at AC-3 at 400 V rated value	0.06 kW	
operating power for 3-phase motors at 400 V at 50 Hz	0.06 0.06 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		
— 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 modu	الم	
height	265 mm		
width	45 mm		
depth	120 mm		
	120 1111		
Ambient conditions	0.000		
installation altitude at height above sea level maximum	2 000 m		
ambient temperature	0 00 00		
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 acc. to CSA and UL rated value	600 V		
Certificates/ approvals			
General Product Approval		EMC	For use in hazard- ous locations



Further information

EG-Konf

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=3RK1301-0BB00-0AA2

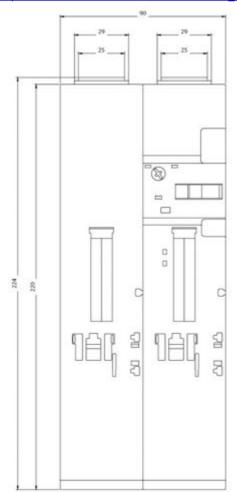
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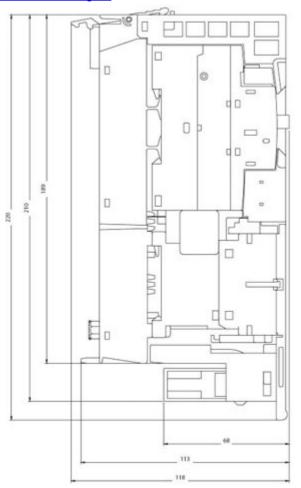
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0BB00-0AA2

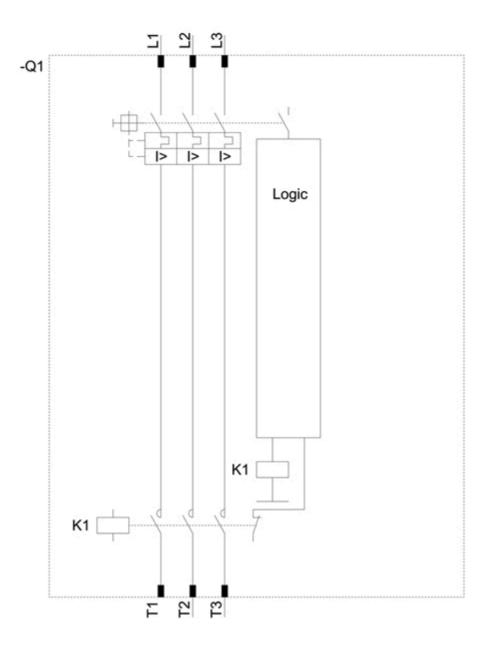
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0BB00-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0BB00-0AA2&lang=en







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