SIEMENS

Data sheet

3RK1301-1KB00-1AA2

RS1-X FOR ET 200S ELECTRO-MECH. REVERS. STARTER, EXPANDABLE SETTING RANGE 9,0...12A AC-3, 5.5KW/400V



Figure similar

Product brand name	Sirius
Product designation	motor starter ET 200S
Design of the product	reversing starter
General technical data	
Product function	
 on-site operation 	Yes
Power loss [W] typical	11 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
Protection class IP	IP20
Shock resistance	5g / 11 ms
Vibration resistance	2g
Operating frequency maximum	750 1/h

Machanical consists (sufficiency such a)	
Mechanical service life (switching cycles)	100.000
of the main contacts typical	100 000
Type of assignment	1
Equipment marking	
 acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 	A
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q
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
Trip class	CLASS 10
Maximum short-circuit current breaking capacity (Icu)	
• at 400 V rated value	50 kA
Electromagnetic compatibility	
EMC emitted interference	
• acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)
EMI 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-bound parasitic coupling 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

Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
T1 value for proof test interval or service life acc. to	
I T value for proof test interval or service life acc. to IEC 61508	20 у
Protection against electrical shock	finger-safe
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
Main circuit	
Number of poles for main current circuit	3
Design of the switching contact	electromechanical
Adjustable pick-up value current of the current- dependent overload release	9 12 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
Operating range relative to the operating voltage at	
AC	
• at 50 Hz	200 440 V
Operating power	
● at AC-3	
— at 400 V rated value	5.5 kW
Operating power for three-phase motors at 400 V at	5.5 5.5 kW
50 Hz	
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
Power Electronics	
Relative negative tolerance of the operating	10 %
frequency	
Relative positive tolerance of the operating frequency	10 %
Installation/ mounting/ dimensions	
Mounting position	vertical, horizontal
Mounting type	pluggable on terminal module
Height	265 mm
Width	90 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	
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 inputs 	1 byte

 of outputs 		1 byte		
Type of electrical connection				
 of the communication in 	nterface	via backplane bus		
 for communication trans 	smission	via backplane bus		
connections/Terminals				
Type of electrical connection				
 for main current circuit 		screw-type terminals		
Type of electrical connection				
 1 for digital input signal 	S	using control module		
 2 for digital input signal 	s	using control module		
Type of electrical connection				
 at the manufacturer-spectrum 	ecific device interface	plug		
 for main energy infeed 		screw-type terminals		
 for load-side outgoing f 	eeder	Screw-type terminals		
 for main energy transm 	ission	via energy bus		
 for supply voltage line-s 	side	via backplane bus		
 for supply voltage trans 	mission	via backplane bus		
IL/CSA ratings				
Operating voltage				
• at AC at 60 Hz acc. to 0	CSA and UL rated valu	e 600 V		
certificates/approvals				
General Product Approv	val		For use in h	azardous locations
) FAC	< x x	IECE ×
CCC CSA	UL		ATEX	IECEx
Declaration of Test	other			
Conformity Certif	icates			
	pe Test Confir	mation		

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

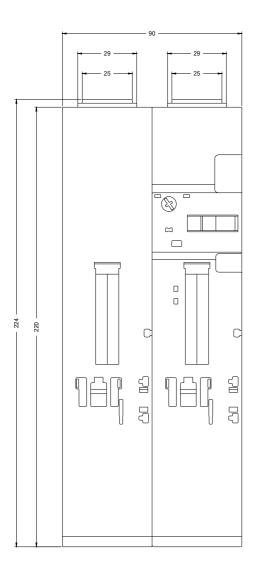
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1KB00-1AA2

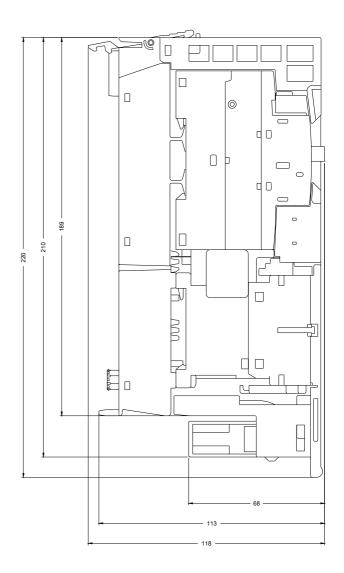
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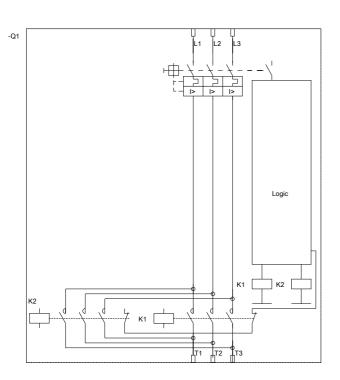
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1KB00-1AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1KB00-1AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1KB00-1AA2&lang=en







DI 0.0	Bereit
DI 0.1	Schütz ein
DI 0.2	Leistungsschalter ausg.
DO 0.0	Motor Rechts
DO 0.1	Motor links
DO 0.2	Bremse

DI 0.0	Ready
DI 0.1	Contactor on
DI 0.2	Circuit breaker tripped
DO 0.0	Motor right
DO 0.1	Motor left
DO 0.2	Brake

last modified:

10/06/2017