SIEMENS

Data sheet

3RK1301-1JB00-1AA2

RS1-X FOR ET 200S ELECTRO-MECH. REVERS. STARTER, EXPANDABLE SETTING RANGE 7.0...10A AC-3, 4.0KW/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	10 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
 50 %

 • 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 11 value for proof test interval or service life acc. to IEC 61508 20 y 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 0 • for digital input signals 0 • fo	
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Operating frequency 2 rated value 60 Hz Operating range relative to the operating voltage at 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 4 kW	
Operating power for three-phase motors at 400 V at 4 4 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 cor	nnection				
 of the commun 	ication interface		via backplane bus		
 for communication 	tion transmission		via backplane bus		
Connections/Termin	nals				
Type of electrical cor	nnection				
 for main curren 	it circuit		screw-type terminals		
Type of electrical cor	nnection		_		
 1 for digital input 	ut signals		using control module		
• 2 for digital input signals		using control module			
Type of electrical cor	nnection				
• 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 volta 	ige line-side		via backplane bus		
 for supply volta 	-		via backplane bus		
JL/CSA ratings			_	_	_
Operating voltage			600 V		
• at AC at 60 Hz	acc. to CSA and UL	. rated value	000 V		
Certificates/approva	lls				
General Product	Approval			For use in ha	zardous locations
(m)	(Ch		r N F	\overline{c}	IECE ₂
(m)	QE		FHI	(X 3)	
ссс	CSA	UL	6116	ATEX	IECEx
Declaration of	Test	other			
Conformity	Certificates				
	Type Test	Confirmat	ion		
()	Certificates/Test Report				
EG-Konf.	Report				

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

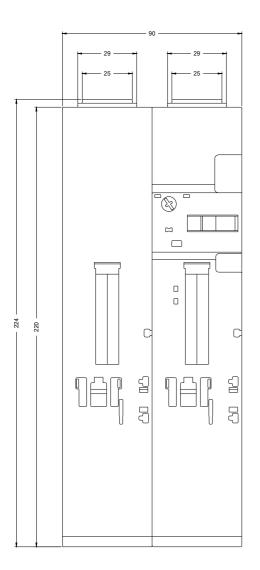
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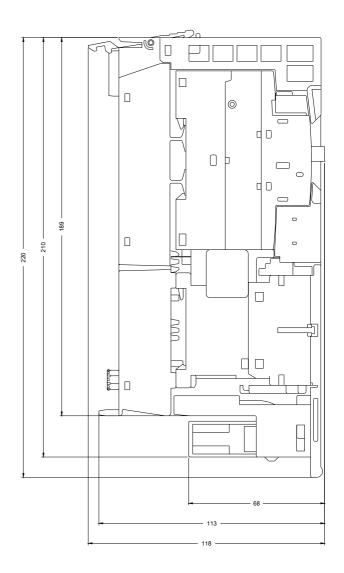
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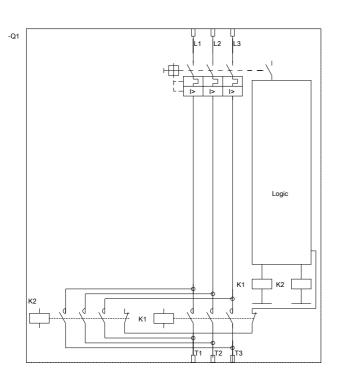
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1JB00-1AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-1JB00-1AA2&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