

RS1-X FOR ET 200S ELECTRO-MECH. REVERS. STARTER,
EXPANDABLE SETTING RANGE 5.5...8.0A AC-3, 3.0KW/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

Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> of the main contacts typical 	100 000
Type of assignment	1
Equipment marking	
<ul style="list-style-type: none"> acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 	A
<ul style="list-style-type: none"> acc. to DIN EN 61346-2 	Q
<ul style="list-style-type: none"> acc. to DIN EN 81346-2 	Q
Product function	
<ul style="list-style-type: none"> direct start 	No
<ul style="list-style-type: none"> reverse starting 	Yes
Product component Motor brake output	Yes
Product feature	
<ul style="list-style-type: none"> brake control with 230 V AC 	No
<ul style="list-style-type: none"> brake control with 24 V DC 	No
<ul style="list-style-type: none"> brake control with 180 V DC 	No
<ul style="list-style-type: none"> 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)	
<ul style="list-style-type: none"> at 400 V rated value 	50 kA

Electromagnetic compatibility

EMC emitted interference	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> due to burst acc. to IEC 61000-4-4 	2 kV on voltage supply, inputs and outputs
<ul style="list-style-type: none"> due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV (U > 24 V DC)
<ul style="list-style-type: none"> 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 GHz ... 2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m

Safety related data

B10 value	
<ul style="list-style-type: none"> with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
<ul style="list-style-type: none"> with low demand rate acc. to SN 31920 	50 %
<ul style="list-style-type: none"> with high demand rate acc. to SN 31920 	75 %

Failure rate [FIT]	
<ul style="list-style-type: none"> 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 against electrical shock	finger-safe

Inputs/ Outputs

Product function	
<ul style="list-style-type: none"> digital inputs parameterizable 	No
<ul style="list-style-type: none"> digital outputs parameterizable 	No
Number of digital inputs	0
Number of sockets	
<ul style="list-style-type: none"> for digital output signals 	0
<ul style="list-style-type: none"> 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 of the current-dependent overload release	5.5 ... 8 A
Type of the motor protection	bimetal
Operating voltage	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 50 Hz 	200 ... 440 V
Operating power	
<ul style="list-style-type: none"> at AC-3 — at 400 V rated value 	3 kW
Operating power for three-phase motors at 400 V at 50 Hz	3 ... 3 kW

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	
<ul style="list-style-type: none"> minimum permissible 	20.4 V
<ul style="list-style-type: none"> maximum permissible 	28.8 V

Control circuit/ Control

Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
<ul style="list-style-type: none"> 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 frequency	10 %
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 PROFIenergy measured values	No
• supports PROFIenergy shutdown	No
Address space memory of address range	
• of inputs	1 byte

<ul style="list-style-type: none"> • of outputs 	1 byte
Type of electrical connection <ul style="list-style-type: none"> • of the communication interface • for communication transmission 	via backplane bus via backplane bus

Connections/Terminals


Type of electrical connection <ul style="list-style-type: none"> • for main current circuit 	screw-type terminals
Type of electrical connection <ul style="list-style-type: none"> • 1 for digital input signals • 2 for digital input signals 	using control module using control module
Type of electrical connection <ul style="list-style-type: none"> • at the manufacturer-specific device interface • for main energy infeed • for load-side outgoing feeder • for main energy transmission • for supply voltage line-side • for supply voltage transmission 	plug screw-type terminals Screw-type terminals via energy bus via backplane bus via backplane bus

UL/CSA ratings

Operating voltage <ul style="list-style-type: none"> • at AC at 60 Hz acc. to CSA and UL rated value 	600 V
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Certificates/approvals

General Product Approval			For use in hazardous locations		
					
CCC	CSA	UL	EAC	ATEX	IECEX

Declaration of Conformity	Test Certificates	other
	Type Test Certificates/Test Report	Confirmation
EG-Konf.		

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

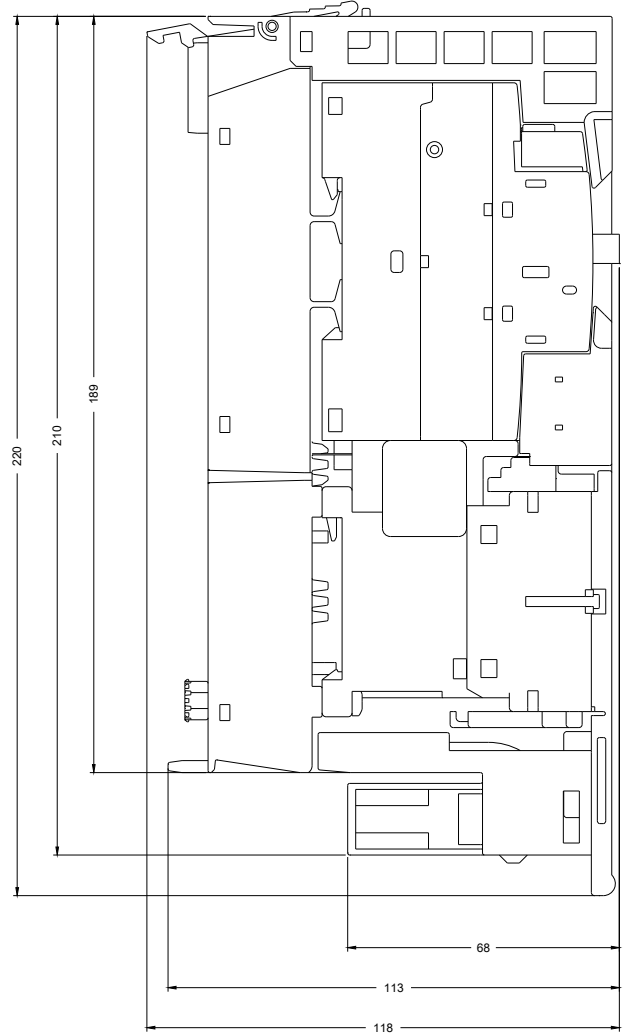
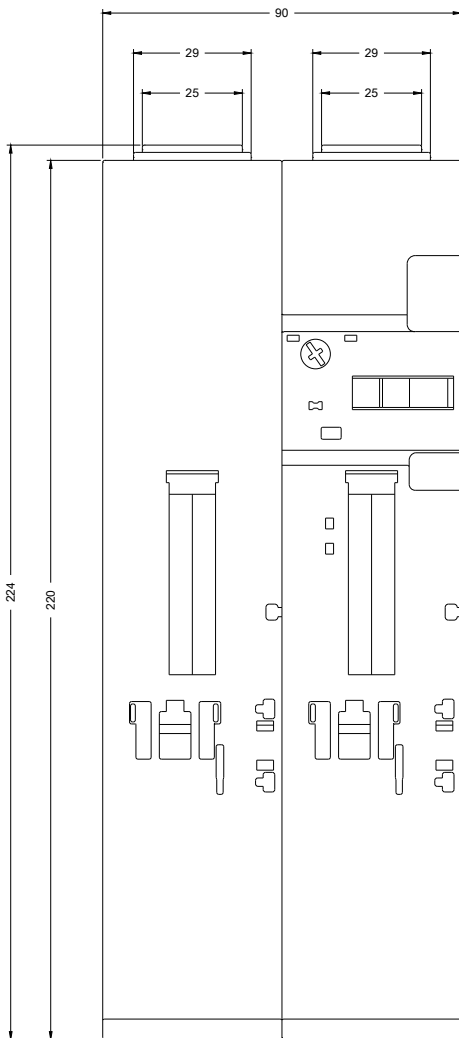
<http://www.siemens.com/industrial-controls/catalogs>

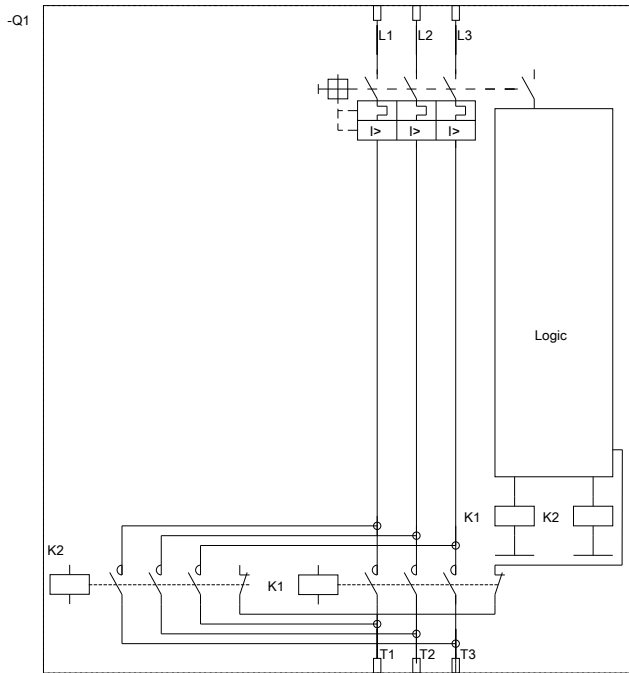
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1HB00-1AA2>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1HB00-1AA2>





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