# **SIEMENS**

**Data sheet** 3RS7025-1FW00



Signal converter with Manual-Auto switch 24-240 V AC/DC, 3-way separation input: 0-10 V, 0/4-20 mA output: 0-10 V, 0/4-20 mA screw

product brand name product category product designation design of the product SIRIUS Signal converter multi-range converters

active, switchable, with manual/automatic switching and setting

potentiometer

product type designation	3RS70
General technical data	
display version LED	Yes
number of channels	1
consumed active power	0.5 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance according to IEC 60068-2-6	6 150 Hz: 2 g
reference code according to IEC 81346-2	Т
Substance Prohibitance (Date)	03/25/2015
Supply voltage	
supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	24 240 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 240 V
supply voltage at DC rated value	24 240 V
supply voltage frequency rated value	60 50 Hz
operating range factor supply voltage rated value	
• at AC at 50 Hz	0.8 1.1
• at AC at 60 Hz	0.8 1.1
• at DC	0.8 1.1
Precision	
relative metering precision	0.1 %
relative linearity deviation	0.05 %
temperature drift per °C	0.015 %/°C
voltage ripple maximum	20 mV
limit frequency	30 Hz
settling time for 1 % deviation	17 ms
rise time	6 ms
Main circuit	
type of voltage	AC/DC
Inputs/ Outputs	
input voltage	30 V
property of the output short-circuit proof	Yes

yybe of signal at output input impedance of current input maximum input impedance of current input maximum input impedance of voltage input minimum output load  a vivolage output minimum at output load  a vivolage output minimum biology  ENC emitted interference according to IEC 60047-1  conducted interference according to IEC 61000-4-4  a vivo to conductor-conductor surge according to IEC 61000-4-2  floid-based interference according to IEC 61000-4-3  floid-based interference according to IEC 6	tune of signal at input	0 10 1/ 0 20 m/s 4 20 m/s
input impedance of current input maximum   100 E   100	type of signal at output	0 10 V, 0 20 mA, 4 20 mA
input impedance of voltage input minimum output load  • at voltage cutput minimum • at the current output maximum • at the cur		
output load  ■ at voltage output minimum ■ at the current output maximum ■ at the current output maximum ■ Electroangability ■ EMC emitted interference according to IEC 60947-1 ■ EMC immunity according to IEC 60947-1 ■ EMC immunity according to IEC 60947-1 ■ Contracted interference ■ due to burst according to IEC 61000-4.4 ■ due to bount according to IEC 61000-4.2 ■ Field-based interference according to IEC 61000-4.2 ■ Contracted isolation ■ Contracted		
• at voltage output minimum • at the current output maximum 500 Q		330 K12
e at the current output maximum  Electromagnatic compatibility  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  conducted interference  • due to burst according to IEC 61000-4.4  • due to conductor-conductor surge according to IEC 61000-4.5  floid-based interference according to IEC 61000-4.2  floid-based i		240
Electromagnetic compatibility  EMC emitted interference according to IEC 60947-1 conducted interference  • due to bust according to IEC 61000-4.4 • due to conductor-conductor surge according to IEC 61000-4.2 • due to bust according to IEC 61000-4.3 • diet bust according to IEC 61000-4.3 • diet-based interference according to IEC 61000-4.3 • diet-constatic discharge according to IEC 61000-4.2 • diet-conductor conductor surge according to IEC 61000-4.3 • destroated ischarge according to IEC 61000-4.2 • destroated ischarge according to IEC 61000-4.2 • destroated ischarge according to IEC 61000-4.2 • destroated ischarge according to IEC 61000-4.3 • between the inputs • between the inputs • between the voltage supply and other circuits  * Ves  **Connections* Terminals  * yes  * Connections* Terminals  * yes  * conductor cross-acctions • solid • finely stranded with core end processing • and AWG accides solid  * conductable conductor cross-acctions • solid • finely stranded with core end processing • solid • finely stranded with core end processing • and with solid proupe with screw-type terminals    vertical connectable conductor cross-acctions • solid   ver		
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EMC immunity according to IEC 60947-1 conducted interference  • due to burst according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • electrostatic discharge according to IEC 61000-4-3 • electrostatic discharge according to IEC 61000-4-2 • Edeland interference according to IEC 61000-4-2 • Cint/mile Isolation  design of the electrical Isolation galvanic isolation • between the outputs • between the outputs • between the virtual solation • solid • firely stranded with core end processing • at AWC auchber as coded connectable conductor cross • section • solid • firely stranded with core end processing • AWO number as coded connectable conductor cross • section • solid • firely stranded with core end processing • with side-by-side mounting • mounting position • fastening method • height • virtual solation • orwards • orwards • orma • orma • orwards • orma • orma • orwards • orma		F : 1B
conducted interference  • due to conductor-conductor surge according to IEC 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-3 • field-based interference according to IEC 610000-4-3 • between the outputs • between the outputs • between the voltage supply and other circuits  * Solid • firely stranded with core end processing • at AVG cables solid • finely stranded with core end processing • at AVG cables solid • finely stranded with core end processing • solid • fine		
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e due to conductor conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-2  electrostatic discharge according to IEC 61000-4-2  convention of the electrical isolation galvanic isolation  e between input and output Yes  • between the outputs No  • between the voltage supply and other circuits Yes  connections/ Terminals  type of olectrical connection yes  • solid singly stranded with core end processing 1x (0.25 1.5 mm²)  • at AWG cables solid 0.25 1.5 mm²)  • solid singly stranded with core end processing 1x (0.25 1.5 mm²)  • solid singly stranded with core end processing 0.25 1.5 mm²  • AWG number as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  • With singly member as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  AWG number as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  AWG number as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  AWG number as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  AWG number as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  AWG number as coded connectable conductor cross-section  • solid singly stranded with core end processing 0.25 1.5 mm²  AWG number as coded connectable conductor cross-section 0.25 1.5 mm²  • solid singly stranded with core end processing 0.25 1.5 mm²  • for solid singly stranded with core end processing 0.25 1.5 mm²  • with side-by-side mounting of connectable conductor cross-section 0.25 1.5 mm²  • with side-by-side mounting 0.25 1.5 mm²  • of one of the connectable con		4 14/ 5/50 mg
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 between the update be		
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 for a part of the electrical isolation galvanic isolation  between input and output between the outputs between the outputs between the voltage supply and other circuits  ves  connections   Ves  between the voltage supply and other circuits  ves  connections   Ves  co		I KV
calculation		10 V/m
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between input and output     between the outputs     between the inputs     between the inputs     between the inputs     between the voltage supply and other circuits   Connections/Torninals  type of electrical connection type of connectable conductor cross-sections     solid     finely stranded with core end processing     at AWG cables solid     connectable conductor cross-section     solid     solid    1x (0.25 2.5 mm²)     1x (2.25 1.5 mm²)     1x (2.25 1.5 mm²)  AWG number as coded connectable conductor cross-section     solid    20 14     if inply stranded with core end processing     AWG number as coded connectable conductor cross-section     solid    20 14     installation/mounting/dimensions  mounting position    any fastening method    snap-on mounting height    93 mm width    17.5 mm depth    75 mm depth    75 mm required spacing      with side-by-side mounting     with side-by-side mounting     - forwards    0 mm     - upwards    0 mm     - downwards    0 mm     - downwards    0 mm     - backwards    0 mm     - backwards    0 mm     - backwards    0 mm     - torwards    0 mm     - torwards    0 mm     - backwards    0 mm     - torwards    0 mm	_	o paulo
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type of electrical connection type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • at I AWG cables solid  • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid 20 14  tightening torque with screw-type terminals  Installation/mounting/dimensions  mounting position fastening method height 93 mm  fastening method height 17.5 mm  required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — at the side — upwards — upwards — upwards — upwards — the side — omm — the side — omm — the side — omm — backwards — upwards — upwards — upwards — upwards — omm — backwards — omm —	·	
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* solid		serow type terminals
solid	•	screw-type terminals
finely stranded with core end processing   1x (0.25 1.5 mm²)     e at AWG cables solid   1 x (20 14)     connectable conductor cross-section     solid   0.25 2.5 mm²     6 finely stranded with core end processing   0.25 1.5 mm²     AWG number as coded connectable conductor cross-section     e solid   20 14     tightening torque with screw-type terminals   0.5 0.6 N·m     Installation/ mounting/ dimensions     mounting position   any     fastening method   snap-on mounting     height   93 mm     width   17.5 mm     required spacing   e with side-by-side mounting     - forwards   0 mm     - backwards   0 mm     - downwards   0 mm     - downwards   0 mm     - downwards   0 mm     - for grounded parts   - forwards   0 mm     - forwards		1v (0.25 2.5 mm²)
at AWG cables solid connectable conductor cross-section     solid     e finely stranded with core end processing     AWG number as coded connectable conductor cross section     solid     solid     20 14     tightening torque with screw-type terminals     installation/ mounting/ dimensions  mounting position fastening method height     solid     any width depth     75 mm required spacing     with side-by-side mounting     — forwards     — upwards     — downwards     — downwards     — at the side     for grounded parts     — forwards     — upwards     — upwards     — at the side     — downwards     — upwards     — upwards     — upwards     — of mm     — forwards     — omm     — forwards     — omm     — omm     — forwards     — omm     — omm     — at the side     — omm     — downwards     — upwards     — upwards     — upwards     — omm     — backwards     — omm     — omm     — sackwards     — omm     — omm     — backwards     — omm     — omm     — at the side     — omm		
onnectable conductor cross-section		
• solid     • finely stranded with core end processing     AWG number as coded connectable conductor cross section     • solid     id tightening torque with screw-type terminals     installation/ mounting/ dimensions  mounting position fastening method height     id sample of the street of		1 × (20 1 <del>7</del> )
• finely stranded with core end processing     AWG number as coded connectable conductor cross section     • solid     to solid     soli		0.25 2.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross section  • solid tightening torque with screw-type terminals  Total attition mounting dimensions  mounting position fastening method height solid depth 75 mm required spacing  • with side-by-side mounting — forwards — backwards — downwards — at the side — for grounded parts — informands — upwards — upwards — omm  • for grounded parts — forwards — omm — at the side — omm		
section  • solid tightening torque with screw-type terminals  nounting position fastening method height width depth required spacing  - forwards - downwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - for live parts - forwards - for live parts - forwards - forwards - o mm - downwards - o mm - at the side - o mm - at the side - downwards - o mm - at the side - o mm - at the side - o mm - o m		0.20 1.0 11111
tightening torque with screw-type terminals  Installation/ mounting/ dimensions  mounting position fastening method snap-on mounting height 93 mm width 17.5 mm depth 75 mm  required spacing  • with side-by-side mounting  — forwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm  • for grounded parts — backwards 0 mm  • for grounded parts — forwards 0 mm  • for grounded parts — forwards 0 mm  • backwards 0 mm  • for grounded parts — forwards 0 mm  • backwards 0 mm  • backwards 0 mm  • packwards 0 mm  - at the side 0 mm  - downwards 0 mm  • for live parts — forwards 0 mm  - backwards 0 mm  - backwards 0 mm  - downwards 0 mm  - at the side 0 mm  - downwards 0 mm  - downwards 0 mm  - downwards 0 mm  - downwards 0 mm  - at the side 0 mm		
Installation/ mounting/ dimensions  mounting position fastening method height yidth depth 75 mm  required spacing  • with side-by-side mounting — forwards — backwards — upwards — at the side — forwards — upwards — backwards — o mm  • for grounded parts — forwards — upwards — at the side — downwards — o mm — o	<ul><li>solid</li></ul>	20 14
mounting position fastening method height width depth 75 mm  required spacing  • with side-by-side mounting — forwards — backwards — upwards — at the side — forwards — backwards — o mm  • for grounded parts — forwards — backwards — o mm  • for grounded parts — forwards — o mm — upwards — o mm  • for grounded parts — forwards — backwards — o mm  • for ive parts — forwards — forwards — at the side — o mm  • for live parts — forwards — backwards — upwards — upwards — o mm  • for live parts — forwards — upwards — upwards — o mm  • for live parts — forwards — backwards — upwards — o mm — at the side — o mm —	tightening torque with screw-type terminals	0.5 0.6 N·m
fastening method height width depth 75 mm  required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — backwards — upwards — of rorwards	Installation/ mounting/ dimensions	
fastening method height width depth 75 mm  required spacing  • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — backwards — upwards — of rorwards	mounting position	any
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required spacing      with side-by-side mounting     — forwards	_	17.5 mm
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<ul> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— forwards</li> <li>— o mm</li> <li>— downwards</li> <li>— for live parts</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— upwards</li> <li>— o mm</li> <li>— at the side</li> <li>O mm</li> <li>— at the side</li> <li>O mm</li> </ul> Ambient conditions		0 mm
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- downwards 0 mm - at the side 0 mm  Ambient conditions		
— at the side 0 mm  Ambient conditions	•	
Ambient conditions		
		UIIIII
installation altitude at height above sea level maximum 2 000 m		
	installation altitude at height above sea level maximum	2 000 m

### ambient temperature

- during operation
- · during storage
- during transport

relative humidity during operation

-25 ... +60 °C -40 ... +80 °C -40 ... +80 °C 10 ... 95 %

#### Certificates/ approvals

## **General Product Approval**

**Declaration of Conformity** 



Confirmation









**Test Certificates** 

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

## **Further information**

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=3RS7025-1FW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7025-1FW00

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

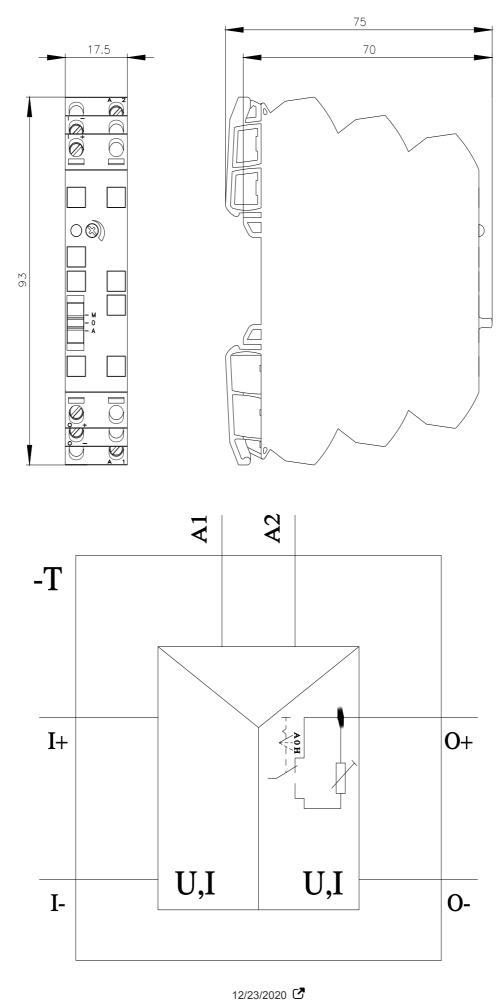
https://support.industry.siemens.com/cs/ww/en/ps/3RS7025-1FW00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RS7025-1FW00&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RS7025-1FW00/manual



last modified: