SIEMENS

Data sheet 3RS7005-2KE00



Separation amplifier 24 V AC/DC, 3-way separation input: 0-10 V, 0/4-20 mA; output: 0-50/100 Hz/1/10 kHz; Spring-type terminal (push-in)

product brand name product category product designation design of the product product type designation SIRIUS Signal converter multi-range converters active, switchable 3RS70

display version LED
number of channels
consumed active power
insulation voltage for overvoltage category III according to
IEC 60664 with degree of pollution 3 rated value
surge voltage resistance rated value
protection class IP
shock resistance according to IEC 60068-2-27
vibration resistance according to IEC 60068-2-6
reference code according to IEC 81346-2
Substance Prohibitance (Date)

Yes
1
0.29 W
50 V
2 500 V
IP20
sinusoidal half-wave 15g / 11 ms
6 ... 150 Hz: 2 g
T
03/25/2015

Supply voltage supply voltage at AC • at 50 Hz rated value 24 V 24 V • at 60 Hz rated value supply voltage at DC rated value 24 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 0.8 ... 1.1 • at AC at 60 Hz at DC 0.8 ... 1.1

relative metering precision
relative linearity deviation
temperature drift per °C
limit frequency
settling time for 1 % deviation
Main circuit

0.1 % 0.05 % 0.015 %/°C 30 Hz 17 ms

type of voltage AC/DC
Inputs/ Outputs
input voltage 30 V
property of the output short-circuit proof Yes

type of signal at input $0 \dots 10 \text{ V}, 0 \dots 20 \text{ mA}, 4 \dots 20 \text{ mA}$ type of signal at output $0 \dots 50 \text{ Hz}, 0 \dots 100 \text{ Hz}, 0 \dots 10 \text{ kHz}$ input impedance of current input maximum 100Ω

input impedance of voltage input minimum	330 kΩ
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	Environment B
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	consoperation to degree or continue
due to burst according to IEC 61000-4-4	1 kV 5/50 ns
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	3 paths
galvanic isolation	
 between input and output 	Yes
 between the outputs 	No
 between the inputs 	No
between the voltage supply and other circuits	Yes
Connections/ Terminals	
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm²)
 finely stranded with core end processing 	1x (0.25 1.5 mm²)
 finely stranded without core end processing 	1x (0.25 2.5 mm²)
at AWG cables solid	1 x (20 14)
 at AWG cables stranded 	1x (20 14)
connectable conductor cross-section	
• solid	0.25 2.5 mm²
finely stranded with core end processing	0.25 1.5 mm²
finely stranded without core end processing	0.25 2.5 mm²
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
Installation/ mounting/ dimensions	20 14
mounting position	any
fastening method	any snap-on mounting
height	93 mm
width	6.2 mm
depth	72.5 mm
required spacing	72.0 11111
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
for grounded parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during operationduring storage	-25 +60 °C -40 +80 °C

-40 ... +80 °C 10 ... 95 %

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation



EAC

CE EG-Konf.



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=3RS7005-2KE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7005-2KE00

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

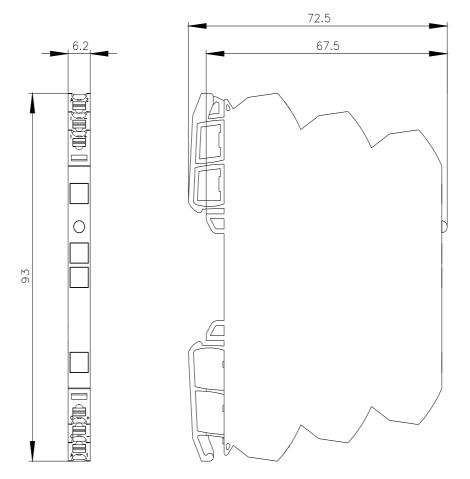
https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2KE00

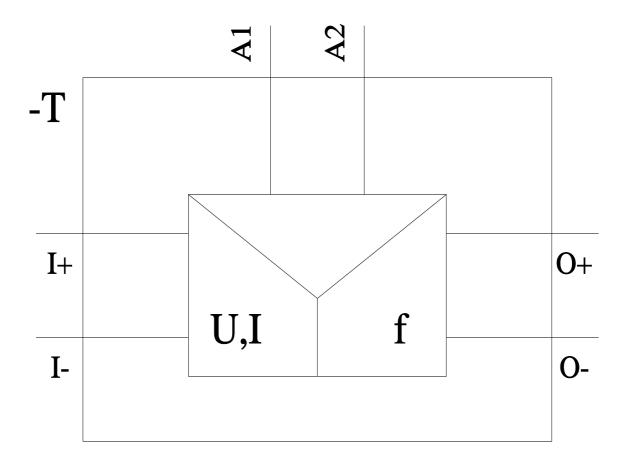
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KE00&lang=ender.siemens.com/bilddb/cax_de.aspx.siemens.com/bil$

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2KE00/manual





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