



temperature monitoring relay for IO-Link Pt100/1000 KTY83/84, NTC 1 to 3 sensors, 2 limit values -50 °C to 750 °C 3 x 1 CO, width 45 mm screw terminal !!!phased-out product!!! the preferred successor is 3RS2800-1BA40+3RS2900-1AA30

product brand name	SIRIUS
product designation	Temperature monitoring relay
design of the product	2 threshold values, digitally adjustable
product type designation	3RS14

General technical data

power loss [W] maximum	4 W
power loss [V·A] maximum	7 VA
reference code according to IEC 81346-2	K
measurable temperature	
• initial value	-50 °C
• full-scale value	750 °C
Substance Prohibitance (Date)	05/01/2012
product function	
• error memory	Yes
• external reset	Yes
design of the sensor connectable	PT100/1000, KTY83/84, NTC (resistance sensors)
measurable temperature with KTY-sensor maximum	200 °C
sensor current with KTY-sensor	0.3 mA

Control circuit/ Control

type of voltage	DC
control supply voltage 1	
• at DC rated value	24 V
• at DC	18 ... 30 V
number of measuring circuits	3

Communication/ Protocol

protocol is supported IO-Link protocol	Yes
IO-Link transfer rate	COM2 (38,4 kBaud)
point-to-point cycle time between master and IO-Link device minimum	10 ms
type of voltage supply via input/output link master	Yes
data volume	
• of the address range of the inputs with cyclical transfer total	4 byte
• of the address range of the outputs with cyclical transfer total	2 byte

Auxiliary circuit

number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	3

Connections/ Terminals

type of electrical connection for auxiliary and control circuit	screw-type terminals
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Installation/ mounting/ dimensions

fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	106 mm
width	45 mm
depth	91 mm

Ambient conditions

ambient temperature during operation	-25 ... +60 °C
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Certificates/ approvals

General Product Approval	Test Certificates	other
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[Confirmation](#)



[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=3RS1441-1HB50>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS1441-1HB50>

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

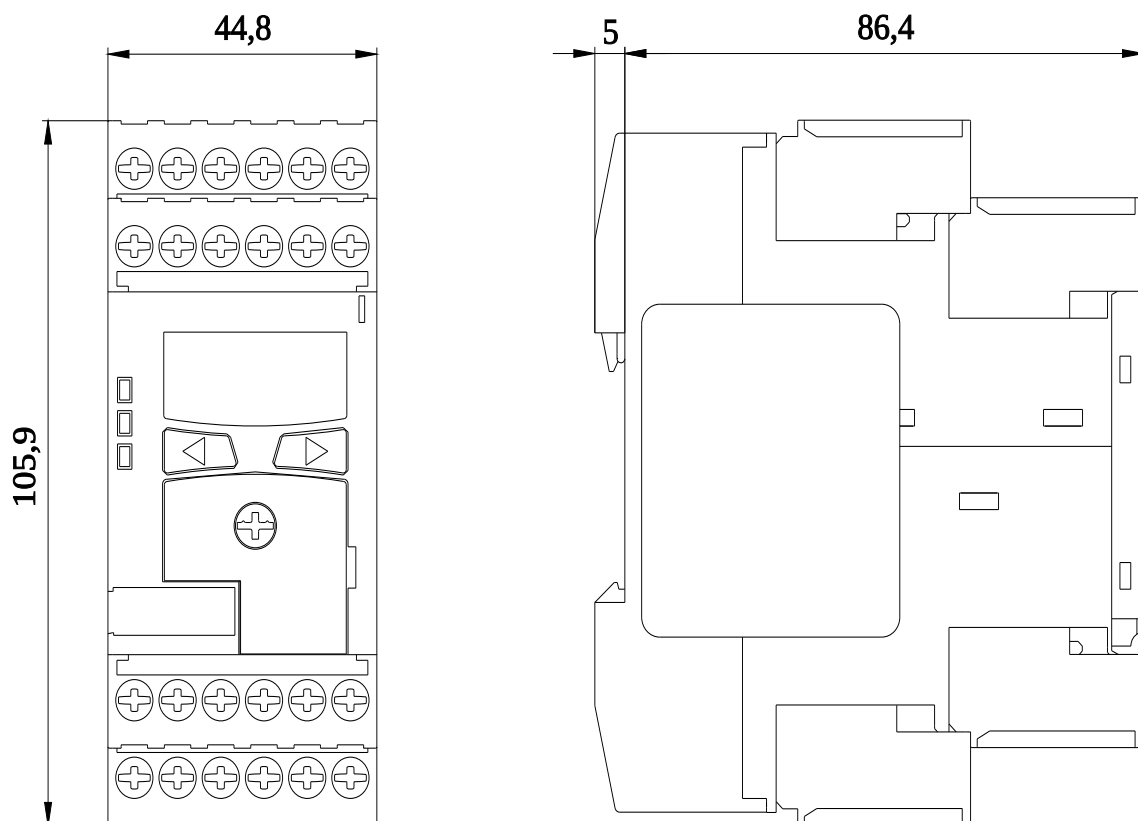
<https://support.industry.siemens.com/cs/ww/en/ps/3RS1441-1HB50>

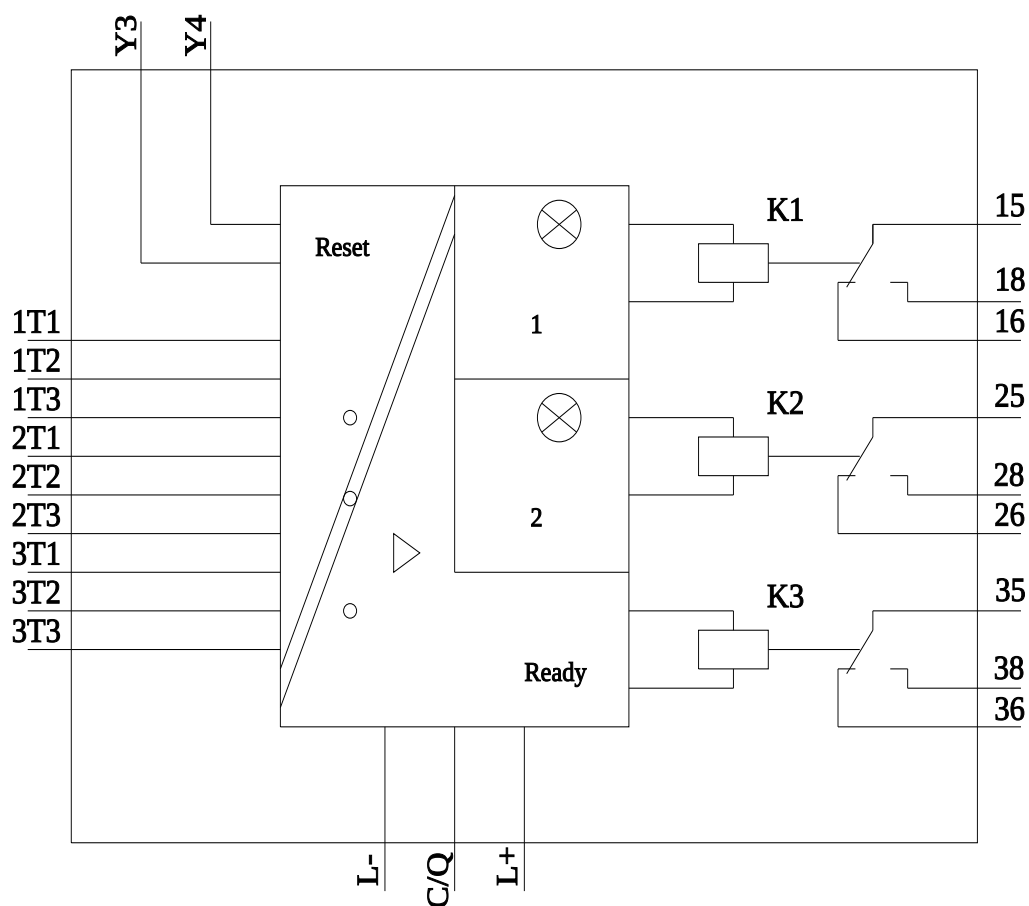
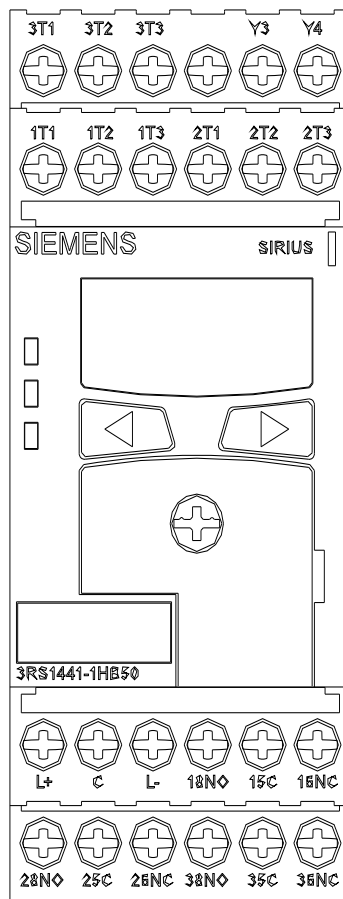
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS1441-1HB50&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RS1441-1HB50/manual>





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11/21/2022