## **SIEMENS**

Data sheet 3RA2814-1AW10



solid-state time-delayed auxiliary switch, off delayed, with control signal, relay: 1 CO, time range 0.05-100 s, 24-240 V AC/DC, 50/60 Hz, varistor for attenuation of the contactor coils integrated, screw terminal, can be snapped on at the front on contactors 3RT2 and auxiliary contactors 3RH2

product brand name	SIRIUS	
product designation	Solid-state time-delay auxiliary switch	
product type designation	3RA28	
General technical data		
size of contactor can be combined company-specific	S00, S0, S2, S3	
product component semi-conductor output	No	
product extension required remote control	No	
product extension optional remote control	No	
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V	
test voltage for isolation test	1.5 kV	
degree of pollution	3	
surge voltage resistance rated value	4 kV	
test voltage for surge voltage test	4 800 V	
consumed current		
• at 24 V	24 mA	
• at 240 V	7 mA	
protection class IP of the terminal	IP20	
shock resistance according to IEC 60068-2-27	15g / 11 ms	
mechanical service life (operating cycles) typical	10 000 000	
mechanical service life (operating cycles)		
<ul> <li>with contactor 3R.2 of frame size S00</li> </ul>	10 000 000	
<ul> <li>with contactor 3R.2 of frame size S0</li> </ul>	10 000 000	
<ul> <li>with contactor 3R.2 of frame size S2</li> </ul>	10 000 000	
with contactor 3R.2 of frame size S3	10 000 000	
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000	
electrical endurance (operating cycles)		
<ul> <li>with contactor 3R.2 of frame size S00</li> </ul>	100 000	
<ul> <li>with contactor 3R.2 of frame size S0</li> </ul>	100 000	
<ul> <li>with contactor 3R.2 of frame size S2</li> </ul>	100 000	
with contactor 3R.2 of frame size S3	100 000	
adjustable time	0.05 100 s	
relative setting accuracy relating to full-scale value	15 %	
minimum ON period	35 ms	
recovery time	150 ms	
reference code according to IEC 81346-2	К	
relative repeat accuracy	1 %	
influence of the surrounding temperature	±1 %	
power supply influence	±1 %	
Substance Prohibitance (Date)	10/01/2009	

SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
Product Function	Biolinoitona (Biolonia) 1011 00 0
product function star-delta circuit	No
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	1.6.20
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
• at DC	24 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
design of the surge suppressor	with varistor
Switching Function	
switching function	
ON-delay	No
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
passing make contact	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
OFF delay	Yes
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with pulse start</li> </ul>	No
switching function	
<ul> <li>constant clock cycle with pulse start</li> </ul>	No
<ul> <li>constant clock cycle with interval start</li> </ul>	No
switching function	
<ul> <li>variably clocked with pulse start</li> </ul>	No
<ul> <li>variably clocked with interval start</li> </ul>	No
switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
star-delta circuit	No
switching function with control signal	
additive ON-delay	No
<ul> <li>passing break contact</li> </ul>	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	Yes
<ul> <li>OFF delay/instantaneous</li> </ul>	No
pulse delayed	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
• pulse-shaping	No
<ul><li>pulse-shaping/instantaneous</li></ul>	No
additive ON-delay/instantaneous	No
ON-delay/OFF-delay	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	No

passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
retriggerable with deactivated control signal	No
design of the control terminal non-floating	Yes
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgNi
number of CO contacts	
delayed switching	1
operational current of auxiliary contacts at AC-15	
• maximum	3 A
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NC contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NO contact at AC-15	
• at 24 V	3 A
● at 250 V	3 A
operational current of auxiliary contacts at DC-13	1 0.1
operational current of auxiliary contacts at DC-13	
• at 24 V	1A
● at 125 V	0.2 A
• at 250 V	0.1 A
• at 250 V operating frequency with 3RT2 contactor maximum	0.1 A 2 500 1/h
operating frequency with 3RT2 contactor maximum	2 500 1/h
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage	2 500 1/h
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL Main circuit type of voltage Inputs/ Outputs	2 500 1/h B300 / R300
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage	2 500 1/h B300 / R300
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay	2 500 1/h B300 / R300 AC/DC
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit  type of voltage Inputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay • non-volatile	2 500 1/h B300 / R300 AC/DC
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs product function  • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility	2 500 1/h B300 / R300  AC/DC  No No
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs product function	2 500 1/h B300 / R300 AC/DC
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit  type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No No Environment A (industrial area)
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20 Basic insulation
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20 Basic insulation
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20 Basic insulation  Yes screw-type terminals
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit  type of voltage Inputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference  • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data  category according to EN 954-1 protection class IP on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid	2 500 1/h B300 / R300  AC/DC  No No No Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20 Basic insulation  Yes screw-type terminals  0.5 4 mm², 2x (0.5 2.5 mm²)
operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts according to UL  Main circuit  type of voltage Inputs/ Outputs  product function	2 500 1/h B300 / R300  AC/DC  No No  Environment A (industrial area)  2 kV network connection / 1 kV control connection 2 kV 1 kV  10 V/m 8 kV  none IP20 Basic insulation  Yes screw-type terminals

for AWG cables stranded	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
Installation/ mounting/ dimensions	
mounting position	any (like contactor)
fastening method	clip-on
height	38 mm
width	45 mm
depth	74 mm
required spacing	
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	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	0 95 %
Approvals Certificates	
General Product Approval	

## General Product Approval









Confirmation



General Product Approval

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other









## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## 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=3RA2814-1AW10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2814-1AW10

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

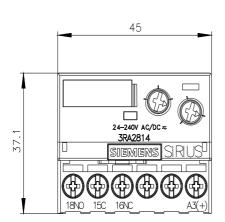
https://support.industry.siemens.com/cs/ww/en/ps/3RA2814-1AW10

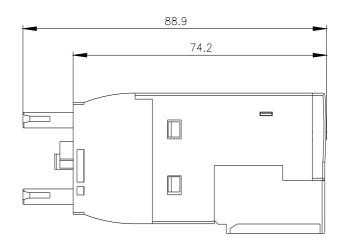
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

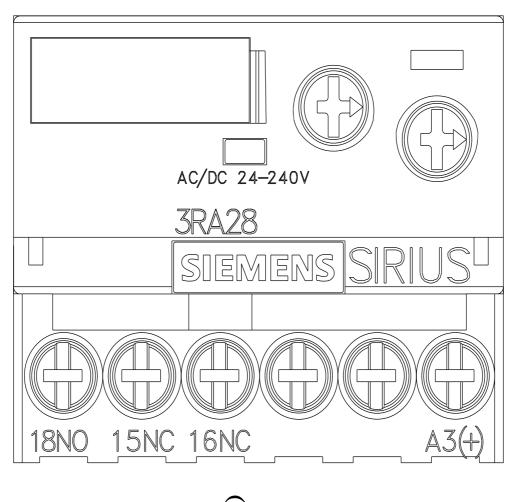
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2814-1AW10&lang=en

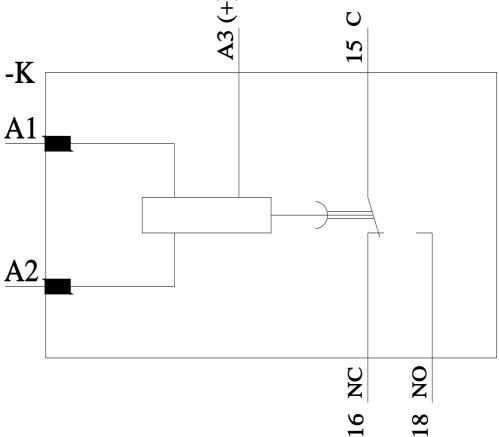
**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RA2814-1AW10/manual









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