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 or 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
protection class IP of the terminal	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	10 59 Hz: 0.35 mm, 60 150 Hz: 2g
mechanical service life (operating cycles) typical	10 000 000
mechanical service life (operating cycles)	
with contactor 3R.2 of frame size S00	10 000 000
 with contactor 3R.2 of frame size S0 	10 000 000
 with contactor 3R.2 of frame size S2 	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)	
 with contactor 3R.2 of frame size S00 	100 000
 with contactor 3R.2 of frame size S0 	100 000
 with contactor 3R.2 of frame size S2 	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
Product Function	
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	
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage frequency i	55 55 1.2
• at DC	24 240 V
♥ at DO	∠⊤ ∠⊤∪ √

operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz	
 initial value full-scale value operating range factor control supply voltage rated value at 	
• full-scale value operating range factor control supply voltage rated value at	
operating range factor control supply voltage rated value at	
AV at VV IIZ	
• 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	
ON-delay/instantaneous contact No	
passing make contact No	
• passing make contact/instantaneous contact No	
OFF delay Yes	
switching function	
flashing symmetrically with interval start/instantaneous	
flashing symmetrically with interval start	
flashing symmetrically with pulse start/instantaneous	
flashing symmetrically with pulse start	
flashing asymmetrically with interval start	
flashing asymmetrically with pulse start	
switching function	
constant clock cycle with pulse start	
constant clock cycle with interval start	
switching function	
variably clocked with pulse start	
variably clocked with interval start	
switching function	
star-delta circuit with delay time	
• star-delta circuit	
switching function with control signal	
additive ON-delay	
passing break contact No	
passing break contact/instantaneous	
OFF delay Yes	
OFF delay/instantaneous No	
• pulse delayed No	
pulse delayed/instantaneous No	
• pulse-shaping No	
pulse-shaping/instantaneous No	
additive ON-delay/instantaneous No	
ON-delay/OFF-delay	
ON-delay/OFF-delay/instantaneous	
passing make contact No	
passing make contact/instantaneous contact No	
switching function of interval relay with control signal	
retrotriggerable with deactivated control	
signal/instantaneous contact	
• retrotriggerable with switched-on control signal No	
• retrotriggerable with switched-on control No	
signal/instantaneous contact	
retriggerable with deactivated control signal	
design of the control terminal non-floating Yes	
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	
switch required	

Auxiliary circuit	
material of switching contacts	AgNi
number of CO contacts	J
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	1 A
● at 125 V	0.2 A
● at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	2 500 1/h
contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
type of voltage	AC/DC
Inputs/ Outputs	
product function	
 at the relay outputs switchover delayed/without delay 	No
• non-volatile	No
Electromagnetic compatibility	
EMC immunity according to IEC 61812-1	Environment A (industrial area)
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-conductor surge according to IEC 61000-4-5 This is a second of the conductor surger according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV
Safety related data	IDAO
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
category according to EN 954-1	none
Connections/ Terminals product component removable terminal for auxiliary and	Yes
type of electrical connection for auxiliary and control circuit	corow type terminals
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	screw-type terminals
solid	0.5 4 mm² 2v (0.5 2.5 mm²)
solid finely stranded with core end processing	0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 innery stranded with core end processing at AWG cables solid 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)
at AWG cables solid at AWG cables stranded	2x (20 14) 2x (20 14)
connectable conductor cross-section	£A (£0 17)
solid	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm ²
finely stranded with core end processing finely stranded without core end processing	0.25 1.5 mm ²
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	
 during operation 	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	0 95 %
Certificates/ approvals	

Certificates/ approvals

General Product Approval

Declaration of Conformity





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

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Confirmation

other

Vibration and Shock

Railway

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

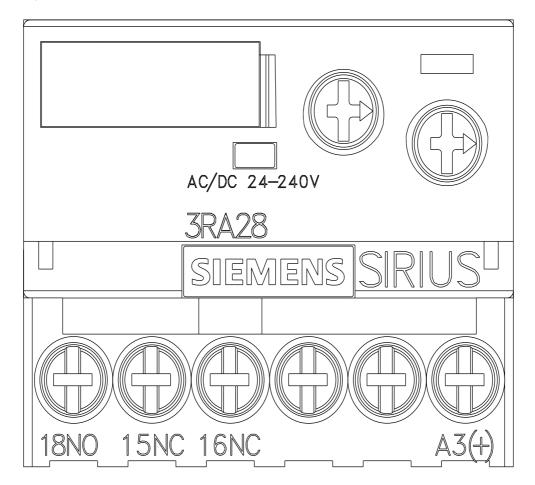
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

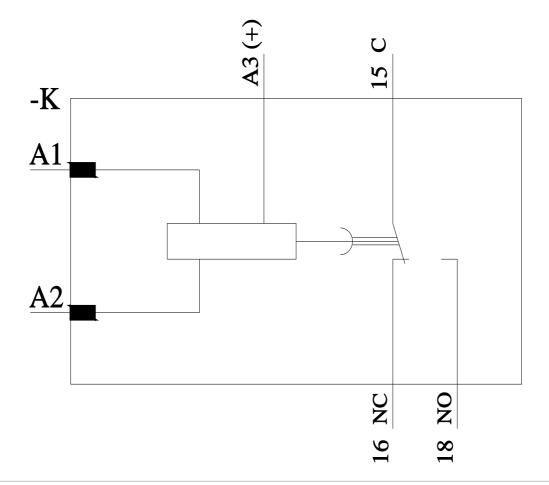
https://support.industry.siemens.com/cs/ww/en/ps/3RA2814-1AW10

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





last modified: 8/2/2022 🖸