## SIEMENS

## Data sheet

## 3RA2811-1CW10



electronic timing relay, ON-delay, with semiconductor output, 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 3RT2.1 / 3RT2.2 and auxiliary contactors 3RH2

product brand name	SIRIUS
product designation	function module
product type designation	3RA28
General technical data	
size of contactor can be combined company-specific	S00, S0
product component semi-conductor output	Yes
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
vibration resistance according to IEC 60068-2-6	10 59 Hz: 0.35 mm, 60 150 Hz: 2g
mechanical service life (operating cycles) typical	100 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	10 000 000
electrical endurance (operating cycles)	
<ul> <li>with contactor 3R.2 of frame size S00</li> </ul>	10 000 000
with contactor 3R.2 of frame size S0	10 000 000
adjustable time	0.05 100 s
relative setting accuracy relating to full-scale value	15 %
recovery time	50 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	
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	

	24 2401/
• 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	With Valiston
switching function	
ON-delay	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
flashing symmetrically with interval start/instantaneous	No
flashing symmetrically with interval start	No
flashing symmetrically with pulse start/instantaneous	No
flashing symmetrically with pulse start	No
flashing asymmetrically with interval start	No
flashing asymmetrically with pulse start	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	No
<ul> <li>OFF delay/instantaneous</li> </ul>	No
<ul> <li>pulse delayed</li> </ul>	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
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
• retrotinggerable with switched-on control	
-	

• rotriagorable with deactivated control sizes	No			
retriggerable with deactivated control signal	No			
design of the control terminal non-floating Auxiliary circuit	No			
number of NO contacts	1			
delayed switching	1			
operating frequency with 3RT2 contactor maximum	2 500 1/h			
Main circuit				
type of voltage	AC/DC			
Inputs/ Outputs				
product function				
non-volatile	No			
residual current maximum	5 mA			
Electromagnetic compatibility				
EMC immunity according to IEC 61812-1	Environment A (industrial area)			
conducted interference				
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection			
• due to conductor-earth surge according to IEC 61000-4-5	2 kV			
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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				
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	none			
product component removable terminal for auxiliary and control circuit	Yes			
type of electrical connection for auxiliary and control circuit	screw-type terminals			
type of connectable conductor cross-sections				
solid	0.5 4 mm², 2x (0.5 2.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )			
<ul> <li>for AWG cables solid</li> </ul>	2x (20 14)			
<ul> <li>for AWG cables stranded</li> </ul>	2x (20 14) 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 mm <sup>2</sup>			
<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				
<ul> <li>with side-by-side mounting</li> </ul>				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— at the side	0 mm			
— downwards	0 mm			

<ul> <li>for live parts</li> </ul>						
— forwards		0 mr	0 mm			
- backwards		0 mr	0 mm			
— upwards		0 mr	0 mm			
— downwards		0 mr	n			
— at the side		0 mr	0 mm			
Ambient conditions						
installation altitude at heig	ht above sea level maxi	mum 2 00	0 m			
ambient temperature						
<ul> <li>during operation</li> </ul>		-25 .	-25 +60 °C			
<ul> <li>during storage</li> </ul>		-40 .	+85 °C			
<ul> <li>during transport</li> </ul>		-40 .	+85 °C			
relative humidity during or	peration	0	95 %			
Certificates/ approvals						
General Product Approv	val		Declaration of Conform	nity	Test Certificates	
Test Certificates	Marine / Shipping	EHC	EG-Konf.	UK CA	ate	
<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS		Llovd's Register uis	PRS	
Marine / Shipping		other	Railway			
RINA	KARS	<u>Confirmation</u>	Vibration and Shock			
Further information Siemens has decided to	avit the Russian mark	ot (coo horo)				

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=3RA2811-1CW10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2811-1CW10

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

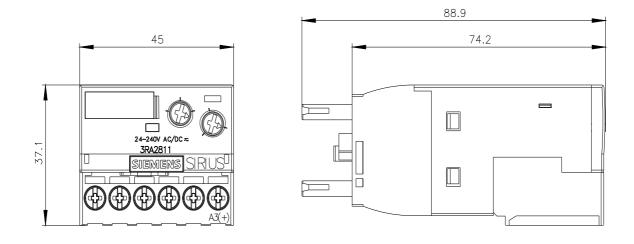
https://support.industry.siemens.com/cs/ww/en/ps/3RA2811-1CW10

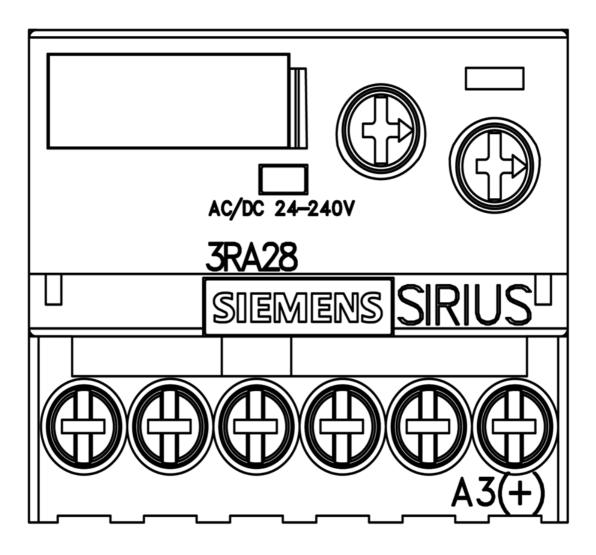
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2811-1CW10&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RA2811-1CW10/manual





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