## SIEMENS

## Data sheet

## 3RA2812-2DW10



Electronic timing relay OFF delay with control signal and semiconductor output 24...240 V AC/DC Time range 0.05...100 s can be snapped on at the front for contactors 3RT2 S00/S0 and auxiliary contactor 3RH2 S00 Spring-type terminal Varistor for attenuation of the contactor coils integrated

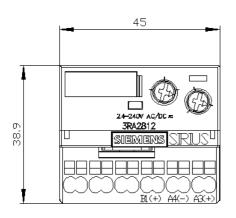
in and it is a second se	
product brand name	SIRIUS
product designation	function module
product type designation	3RA28
General technical data	
size of contactor can be combined company-specific	S00, S0
product component semi-conductor output	Yes
product extension required remote control	No
product extension 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
protection class IP of the terminal	IP20
shock resistance acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	10 59 Hz: 0.35 mm, 60 150 Hz: 2g
mechanical service life (switching cycles) typical	100 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	10 000 000
electrical endurance (switching 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 %
minimum ON period	35 ms
recovery time	50 ms
reference code acc. to IEC 81346-2	К
relative repeat accuracy	1 %
Substance Prohibitance (Date)	01.10.2009 00:00:00
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

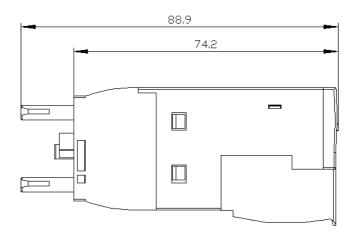
control supply voltage 1	-
• at DC	24 240 V
operating range factor control supply voltage rated	
value at DC	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 50 Hz	
<ul> <li>initial value</li> </ul>	0.85
full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 60 Hz	0.05
initial value	0.85
• full-scale value	
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
passing make contact/instantaneous contact	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	
<ul> <li>additive ON-delay</li> </ul>	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
<ul> <li>pulse delayed</li> </ul>	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
<ul> <li>pulse-shaping</li> </ul>	No
<ul> <li>pulse-shaping/instantaneous</li> </ul>	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
<ul> <li>ON-delay/OFF-delay</li> </ul>	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	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</li> </ul>	No

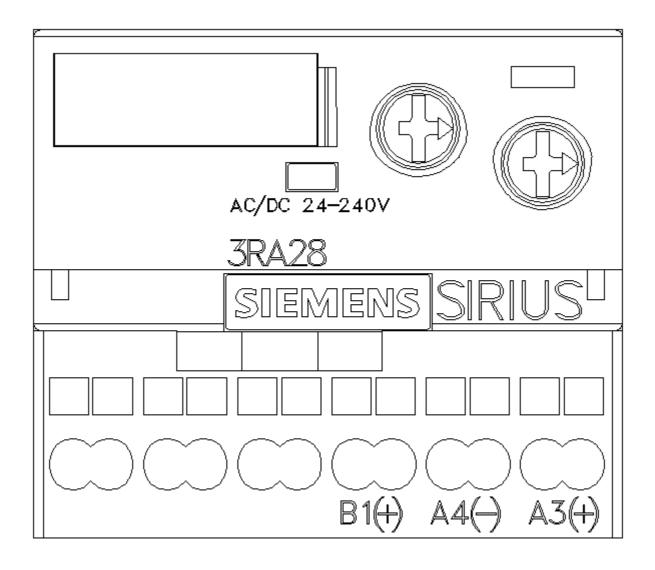
signal/instantaneous contact	No
retriggerable with deactivated control signal     design of the control terminal non-floating	No Yes
Auxiliary circuit	
number of NO contacts	
delayed switching	1
	2 500 1/h
operating frequency with 3RT2 contactor maximum influence of the surrounding temperature	±1 %
power supply influence	±1 %
Main circuit	II 70
type of voltage	AC/DC
Inputs/ Outputs	
product function	
non-volatile	No
	NO
Electromagnetic compatibility	Free incoment A (inductrial and a)
EMC immunity acc. to IEC 61812-1	Environment A (industrial area)
conducted interference <ul> <li>due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
<ul> <li>due to burst acc. to IEC 61000-4-4</li> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV network connection / 1 kV control connection 2 kV
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC</li> </ul>	2 KV 1 KV
• due to conductor-conductor surge acc. to IEC 61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	8 kV
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit	
type of electrical connection for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	0.5 4 mm <sup>2</sup> , 2x (0.5 2.5 mm <sup>2</sup> )
finely stranded with core end processing	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )
at AWG cables solid	2x (20 14)
at AWG cables stranded	2x (20 14)
connectable conductor cross-section <ul> <li>solid</li> </ul>	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 with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross	0.20 1.0 mm
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

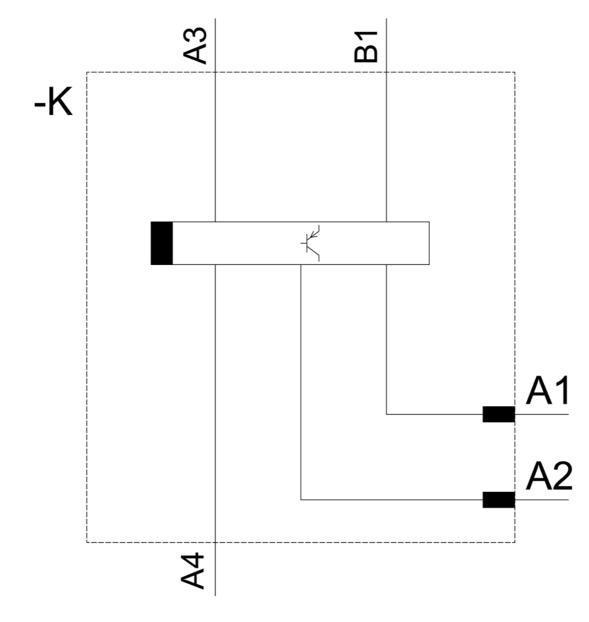
e for grounded pr	orto				
<ul> <li>for grounded pa — forwards     </li> </ul>	1115		0 mm		
— backwards			0 mm		
— upwards	<b>)</b>		0 mm		
— at the side			0 mm		
— downward			0 mm		
<ul> <li>for live parts</li> </ul>	5		0 mm		
- forwards			0 mm		
— backwards	•		0 mm		
— upwards	2		0 mm		
— upwards — downwards		0 mm			
— downwards — at the side		0 mm			
Ambient conditions			0 mm		
installation altitude at	height above sea leve	el maximum	2 000 m		
ambient temperature	-		2 000 111		
during operation			-25 +60 °C		
<ul> <li>during operation</li> <li>during storage</li> </ul>	1		-20 +85 °C		
<ul> <li>during storage</li> <li>during transpor</li> </ul>	ł		-40 +85 °C		
relative humidity durir			0 95 %		
Certificates/ approval	• •		0 00 /0		
		Declaration	of Conformity	Test Certificates	
General Product Ap	proval	Declaration	of Conformity	Test Certificates	
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http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2812-2DV Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RA2812-2DW10/manual









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