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

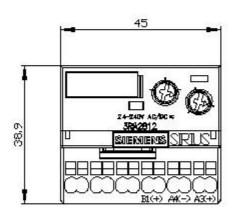
product brand name	SIRIUS
product designation	function module
product type designation	3RA28
General technical data	
size of contactor can be combined company-specific	S00, S0
product component semi-conductor output	Yes
product extension required remote control	No
product extension optional remote control	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)	
 with contactor 3R.2 of frame size S00 	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 %
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

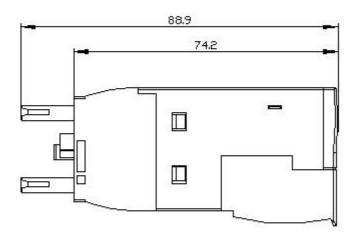


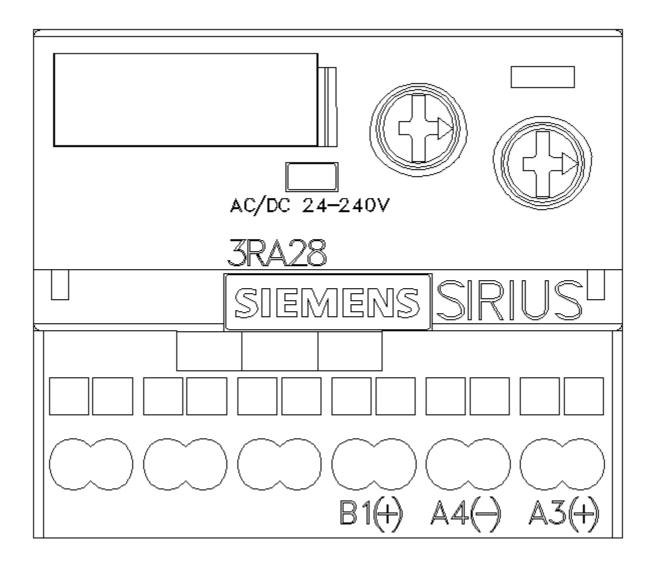
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 50 Hz	
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 60 Hz	
 initial 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 	No
 flashing symmetrically with interval start 	No
flashing symmetrically with pulse	No
start/instantaneous	
 flashing symmetrically with pulse start 	No
 flashing asymmetrically with interval start 	No
 flashing asymmetrically with pulse start 	No
switching function	
 constant clock cycle with pulse start 	No
 constant clock cycle with interval start 	No
switching function	
 variably clocked with pulse start 	No
 variably clocked with interval start 	No
switching function	
 star-delta circuit with delay time 	No
star-delta circuit	No
switching function with control signal	
additive ON-delay	No
passing break contact	No
passing break contact/instantaneous	No
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 ON delay/OFE delay	No No
ON-delay/OFF-delay ON-delay/OFF-delay/instantaneous	No
 ON-delay/OFF-delay/instantaneous passing make contact 	No
 passing make contact passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
signal/instantaneous contact	
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	
 retriggerable with deactivated control signal 	No

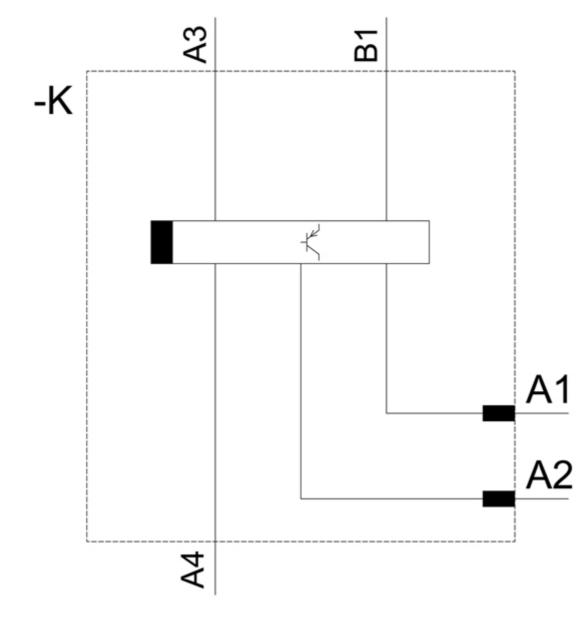
	N
design of the control terminal non-floating	Yes
Auxiliary circuit	
number of NO contacts	
delayed switching	1
operating frequency with 3RT2 contactor maximum	2 500 1/h
influence of the surrounding temperature	±1 %
power supply influence	±1 %
Main circuit	
type of voltage	AC/DC
Inputs/ Outputs	
product function	
non-volatile	No
Electromagnetic compatibility	
EMC immunity acc. to IEC 61812-1	Environment A (industrial area)
conducted interference	
 due to burst acc. to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 	1 kV
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	
touch protection against electrical shock	finger-safe
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 function removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	0.5 4 mm², 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
 at AWG cables solid 	2x (20 14)
at AWG cables stranded	2x (20 14)
 connectable conductor cross-section solid 	0.5 4 mm²
 connectable conductor cross-section finely stranded with core end processing 	0.5 2.5 mm²
 connectable conductor cross-section finely stranded without core end processing 	0.25 1.5 mm²
 AWG number as coded connectable conductor cross section solid 	20 14
 AWG number as coded connectable conductor cross section 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

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 for grounded particular 	arts					
— forwards			0 mm			
— backwards	6		0 mm			
— upwards			0 mm			
— at the side			0 mm			
— downward	S		0 mm			
 for live parts 						
— forwards			0 mm			
— backwards	6		0 mm			
— upwards			0 mm			
— downward	-		0 mm			
— at the side			0 mm			
Ambient conditions						
installation altitude at	height above sea leve	l maximum	2 000 m			
 ambient temper 	ambient temperature during operation		-25 +60 °C			
	ature during storage		-40 +85 °C			
	ature during transport		-40 +85 °C			
relative humidity durir	• ·		0 95 %			
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