SIEMENS

Data sheet 3RA2813-1AW10



Solid-state time-delayed auxiliary switch ON delay Relay 1 changeover contact 24...240 V AC/DC Time range 0.05...100 s Can be snapped on at the front For 3RT2 S00-S3 contactors and 3RH2 S00 contactor relays Screw terminal Varistor for attenuation of the contactor coils integrated

product brand name product designation product type designation SIRIUS

Solid-state time-delay auxiliary switch

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
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 (switching cycles) typical	10 000 000
mechanical service life (switching 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 (switching cycles) at AC-15 at 230 V typical	10 000 000
electrical endurance (switching 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 %
recovery time	150 ms
reference code according to IEC 81346-2	K
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 24 240 V
ontrol supply voltage frequency 1	50 60 Hz
control supply voltage 1	00 00 TIZ
• at DC	24 240 V
operating range factor control supply voltage rated value at DC	27 270 V
• 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	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay Suitables for forces	No
switching function flashing symmetrically with interval	No
start/instantaneous	No
 flashing symmetrically with interval start flashing symmetrically with pulse 	No No
start/instantaneous	
flashing symmetrically with pulse start	No No
flashing asymmetrically with interval start	No No
 flashing asymmetrically with pulse start switching function 	No
constant clock cycle with pulse start	No
constant clock cycle with pulse start constant clock cycle with interval start	No
switching function	NO
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	No
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	No
ON-delay/OFF-delay/instantaneous	No
passing make contact passing make contact	No No
passing make contact/instantaneous contact witching function of interval relay with control signal.	No
 switching function of interval relay with control signal retrotriggerable with deactivated control 	No
signal/instantaneous contact	No
retrotriggerable with switched on control signal retrotriggerable with switched on control	No No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
<u> </u>	

auxiliary switch required Auxiliary circuit material of switching contacts Ag	se gL/gG: 4 A
design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts Ag	se gL/gG: 4 A
auxiliary switch required Auxiliary circuit material of switching contacts Ag	se gL/gG: 4 A
material of switching contacts Ag	
3	
	Ni
number of CO contacts	
• delayed switching 1	
operational current of auxiliary contacts at AC-15	
• maximum 3 A	A
• at 24 V	A
• at 250 V	A
operational current of auxiliary contacts as NC contact at AC-15	
• at 24 V	A
• at 250 V	A
operational current of auxiliary contacts as NO contact at AC-15	
• at 24 V	
• at 250 V	
.,	0.1
operational current of auxiliary contacts at DC-13	
• at 24 V	
	2 A
	1 A
3 141 3	500 1/h
, ,	300 / R300
Main circuit	
31.4.4.4.3.4	C/DC
Inputs/ Outputs	
product function	
at the relay outputs switchover delayed/without No	
delay • non-volatile No	
Electromagnetic compatibility	,
	nvironment A (industrial area)
conducted interference	iviioninent A (industrial alea)
	kV network connection / 1 kV control connection
• due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 2 k	
61000-4-5	
 due to conductor-conductor surge according to IEC 1 k 61000-4-5 	kV
field-based interference according to IEC 61000-4-3) V/m
electrostatic discharge according to IEC 61000-4-2	kV
Safety related data	
protection class IP on the front according to IEC IP2 60529	20
31.	asic insulation
category according to EN 954-1 no	ne
Connections/ Terminals	
product component removable terminal for auxiliary Ye and control circuit	es
	rew-type terminals
type of connectable conductor cross-sections	
	5 4 mm², 2x (0.5 2.5 mm²)
	(0.5 2.5 mm²), 2x (0.5 1.5 mm²)
	(20 14)
	(20 14)
 at AWG cables stranded 	
• at AWG cables stranded 2x connectable conductor cross-section	
connectable conductor cross-section	5 4 mm²
connectable conductor cross-section • solid 0.5	5 4 mm² 5 2.5 mm²
connectable conductor cross-section • solid • finely stranded with core end processing 0.5	

section

solid

stranded

20 ... 14 20 ... 14

clip-on

38 mm

45 mm

74 mm

0 mm

any (like contactor)

Installation/ mounting/ dimensions

mounting position

fastening method height

width

depth required spacing

• with side-by-side mounting

- forwards - backwards - upwards

- downwards — at the side

• for grounded parts

- forwards - backwards

- upwards — at the side

- downwards • for live parts

- forwards - backwards

- upwards - downwards

— at the side

installation altitude at height above sea level maximum ambient temperature

• during operation

• during storage • during transport relative humidity during operation 2 000 m

-25 ... +60 °C -40 ... +85 °C

-40 ... +85 °C 0 ... 95 %

Certificates/ approvals

General Product Approval

Declaration of Conformity





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>







Marine / Shipping







Confirmation

other

Vibration and Shock

Railway

Further information

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=3RA2813-1AW10

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2813-1AW10}$

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

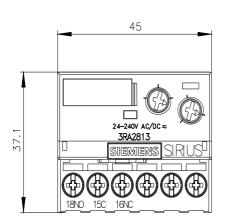
https://support.industry.siemens.com/cs/ww/en/ps/3RA2813-1AW10

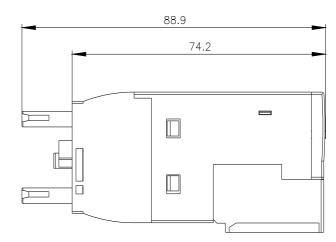
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

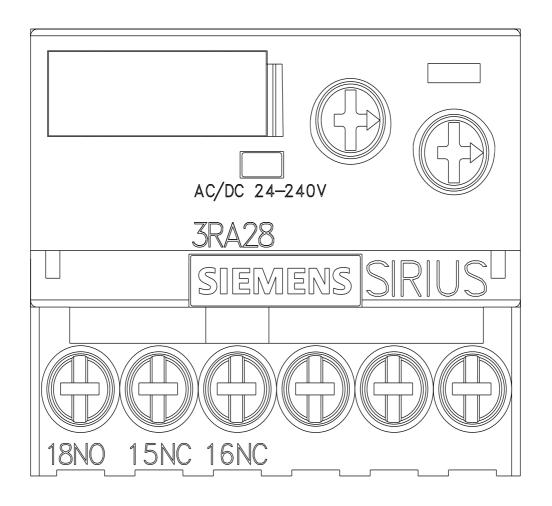
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2813-1AW10&lang=en

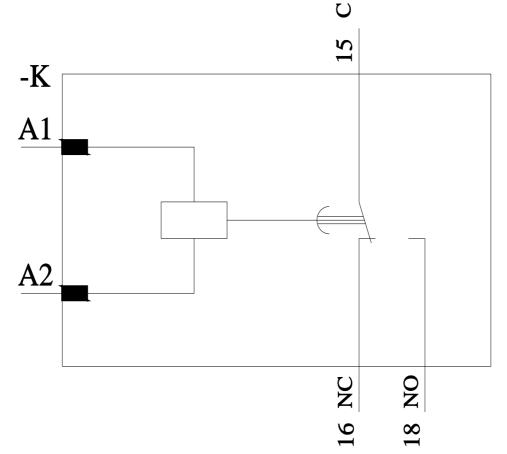
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RA2813-1AW10/manual









last modified: 12/19/2020 🖸