SIEMENS

Data sheet 3RA2813-1AW10



solid-state time-delayed auxiliary switch, ON-delay, relay: 1 CO, 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 onto the front on contactors 3RT20 and contactor relays 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	
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	10 000 000	
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 %	
recovery time	150 ms	
reference code according to IEC 81346-2	К	
active principle	electronic	
relative repeat accuracy	1 %	
influence of the surrounding temperature	±1 %	
power supply influence	±1 %	
Substance Prohibitance (Date)	10/01/2009	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8	
Weight	0.098 kg	

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	Vec
ON-delay ON delay/instantaneous contact	Yes
ON-delay/instantaneous contact passing make contact	No No
passing make contact passing make contact/instantaneous contact	No No
passing make contact/instantaneous contactOFF delay	No
switching function	110
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	
 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 No
passing break contact	No No
passing break contact/instantaneous	No No
OFF delay	No No
OFF delay/instantaneouspulse delayed	No No
pulse delayedpulse delayed/instantaneous	No
pulse delayed/instantaneous pulse-shaping	No
pulse-shaping pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
ON-delay/OFF-delay	No
ON-delay/OFF-delay/instantaneous	No
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 signal/instantaneous contact 	No
retriggerable with deactivated control signal	No
design of the control terminal non-floating	Yes
Short-circuit protection	163
·	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgNi
number of CO contacts	
delayed switching	1
operational current of auxiliary contacts at AC-15	
• maximum	3 A
• at 24 V	3 A
• at 250 V	3 A
	SA
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	0
• 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
	D200 / D200
contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
Main circuit type of voltage	AC/DC
Main circuit	
Main circuit type of voltage	
Main circuit type of voltage Inputs/ Outputs	
Main circuit type of voltage Inputs/ Outputs product function	AC/DC
Main circuit type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay	AC/DC No
Main circuit type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile	AC/DC No
Main circuit type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility	AC/DC No No
type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1	AC/DC No No
Main circuit type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4	AC/DC No No Environment A (industrial area)
Main circuit type of voltage Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5	AC/DC No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV
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for AWG cables stranded	2x (20 14)	
connectable conductor cross-section		
• solid	0.5 4 mm²	
 finely stranded with core end processing 	0.5 2.5 mm²	
finely stranded without core end processing	0.25 1.5 mm²	
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 %	
Approvals Certificates		
General Product Approval		

General Product Approval









Confirmation



General Product Approval

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other Railway Environment







Further information

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=3RA2813-1AW10

Cax online generator

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

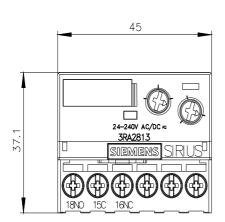
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2813-1AW10

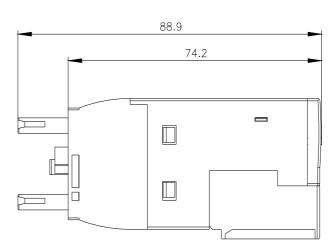
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

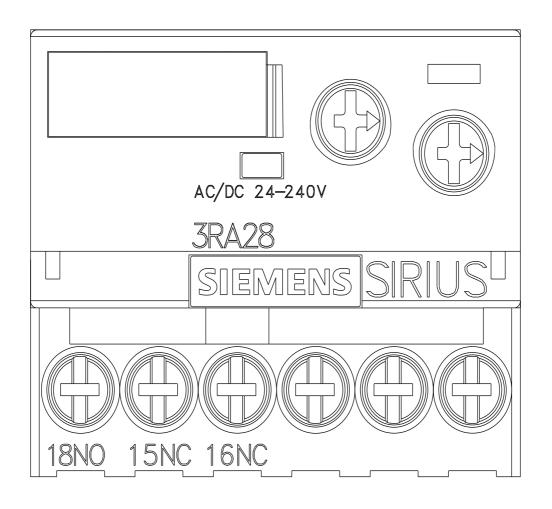
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2813-1AW10&lang=en

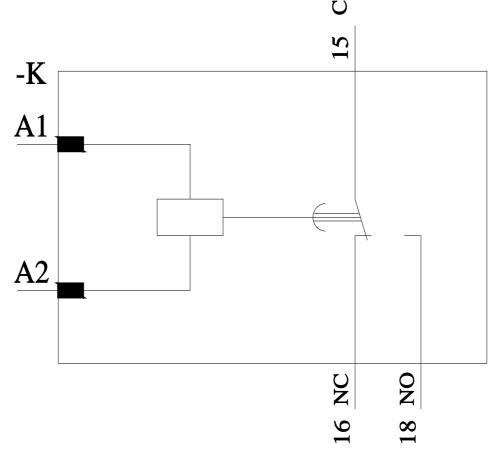
Characteristic: Derating

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









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