SIEMENS

Data sheet

3RA2813-2FW10



solid-state time-delayed auxiliary switch, ON-delay, relay 1 NC + 1 NO, time range 0.05-100 s, 24-240 V AC/DC, 50/60 Hz, varistor for attenuation of the contactor coils integrated, spring-loaded 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		
protection class IP of the terminal	IP20		
shock resistance according to IEC 60068-2-27	15g / 11 ms		
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	100 000		
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		
Product Function			

AC/DC 24 240 V 24 240 V 50 60 Hz 24 240 V 0.85
24 240 V 24 240 V 50 60 Hz 24 240 V
24 240 V 50 60 Hz 24 240 V
24 240 V 50 60 Hz 24 240 V
50 60 Hz 24 240 V
24 240 V
0.85
0.85
1.1
0.85
1.1
0.85
1.1
with varistor
Yes
No
No
No
No
No
No

 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			
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 4 A		
switch required			
Auxiliary circuit			
material of switching contacts	AgNi		
number of NC contacts			
delayed switching	1		
number of NO contacts			
delayed switching	1		
operational current of auxiliary contacts at AC-15			
• maximum	3 A		
• at 24 V	3 A 2 A		
at 250 V	3 A		
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			
• 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		
contact rating of auxiliary contacts according to UL	B300 / R300		
Main circuit			
type of voltage	AC/DC		
Inputs/ Outputs			
product function	No		
 at the relay outputs switchover delayed/without delay 	No		
non-volatile Electromagnetic compatibility	No		
Electromagnetic compatibility			
EMC immunity according to IEC 61812-1	Environment A (industrial area)		
conducted interference	2 kV network connection / 1 kV control connection		
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV network connection / 1 kV control connection 2 kV		
due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC	2 KV 1 kV		
61000-4-5			
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			
category according to EN 954-1	none		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
type of insulation	Basic insulation		
Connections/ Terminals			
product component 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)		
 for AWG cables solid 	2x (20 14)		
 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	0 mm		
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
• for live parts	0 mm		
- forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions	Unin		
	2,000 m		
installation altitude at height above sea level maximum	2 000 m		
ambient temperature	05 · 00 ° 0		
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			
	<u>Confirmation</u>		U
General Product Ap- proval Test Certificates	Marine / Shipping		
Type Test Certific- ates/Test Report Special Test Certific- ate	ertific- ABS	BUREAU	

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Confirmation

Special Test Certificate Environmental Confirmations

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=3RA2813-2FW10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2813-2FW10

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

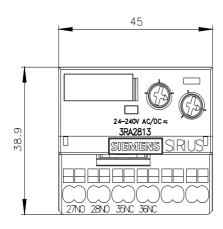
https://support.industry.siemens.com/cs/ww/en/ps/3RA2813-2FW10

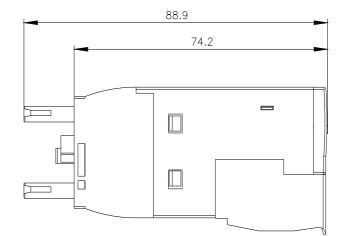
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

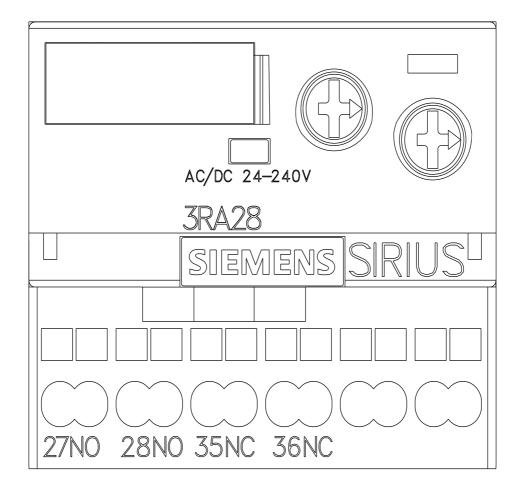
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2813-2FW10&lang=en

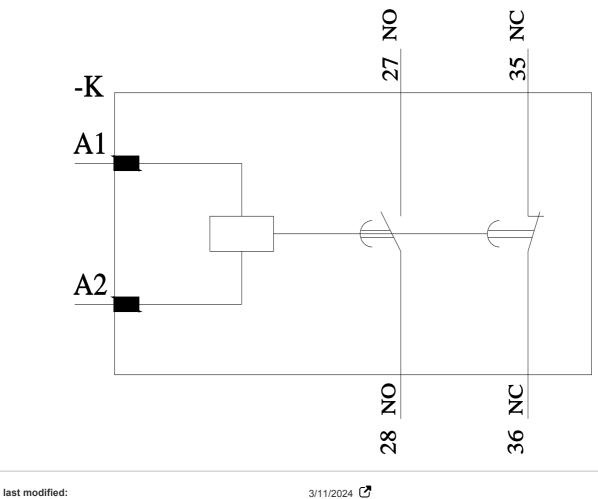
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RA2813-2FW10/manual









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