SIEMENS

Data sheet

3RA2813-1FW10



Solid-state time-delayed auxiliary switch ON delay Relay 1 NC + 1 NO 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

size of contactor can be combined company-specificS00, S0, S2, S3product component semi-conductor outputNoproduct extension required remote controlNoproduct extension optional remote controlNoinsulation voltage for overvoltage category III according to EC6 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2		
product type designation 3RA28 Seneral technical data size of contactor can be combined company-specific S00, S0, S2, S3 product component semi-conductor output No No product extension required remote control No No product extension optional remote control No No 1EC 60664 with degree of pollution 3 rated value a00 V according to 1EC 60664 with degree of pollution 3 rated value 1.5 kV according to test voltage for isolation test 1.5 kV according to degree of pollution 3 according to sturge voltage resistance rated value 4 kV test voltage for surge voltage test 4 800 V protection class IP of the terminal IP20 10 000 000 into surget to s	product brand name	SIRIUS
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• 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	electrical endurance (switching cycles)	
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• with contactor 3R.2 of frame size S3 100 000 adjustable time 0.05 100 s	 with contactor 3R.2 of frame size S0 	100 000
adjustable time 0.05 100 s	 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 %	relative setting accuracy relating to full-scale value	15 %
recovery time 150 ms	recovery time	150 ms
reference code acc. to IEC 81346-2 K	reference code acc. to IEC 81346-2	К
relative repeat accuracy 1 %	relative repeat accuracy	
influence of the surrounding temperature ±1 %	influence of the surrounding temperature	±1 %
power supply influence ±1 %	power supply influence	±1 %
Substance Prohibitance (Date) 01.10.2009	Substance Prohibitance (Date)	01.10.2009
roduct Function	Product Function	
product function star-delta circuit No	product function star-delta circuit	No

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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	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
OFF delay	No
switching function	
 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
 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	No
 passing make contact/instantaneous contact 	No
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switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
 retrotriggerable with deactivated control 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
design of the control terminal non-floating	Yes
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
auxiliary 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
• 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	
 at the relay outputs switchover delayed/without delay 	No
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	
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 and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	

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• solid	
- John	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)
at AWG cables solid	2x (20 14)
 at 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 mm ²
 finely stranded without core end processing 	0.25 1.5 mm ²
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
— 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
	0 mm
— upwards	
— upwards — downwards	0 mm
	0 mm 0 mm
— downwards	
 downwards at the side Ambient conditions 	
	0 mm
	0 mm
	0 mm 2 000 m
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage 	0 mm 2 000 m -25 +60 °C
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation 	0 mm 2 000 m -25 +60 °C -40 +85 °C
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Certificates/ approvals 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 %
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Certificates/ approvals 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 %
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Certificates/ approvals 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Certificates/ approvals 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 %
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Certificates/ approvals 	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity
 downwards at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Certificates/ approvals General Product Approval	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity ERE CE
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Further information







