SIEMENS

Data sheet

3RA2812-1DW10



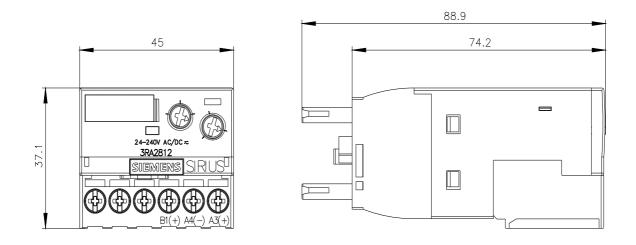
electronic timing relay, off delayed, with control signal and semiconductor output, time range 0.05-100 s, 24-240 V AC/DC, 50/60 Hz, varistor for attenuation of the contactor coils integrated, screw terminal, can be snapped on at the front on contactors 3RT2.1 / 3RT2.2 and auxiliary contactors 3RH2

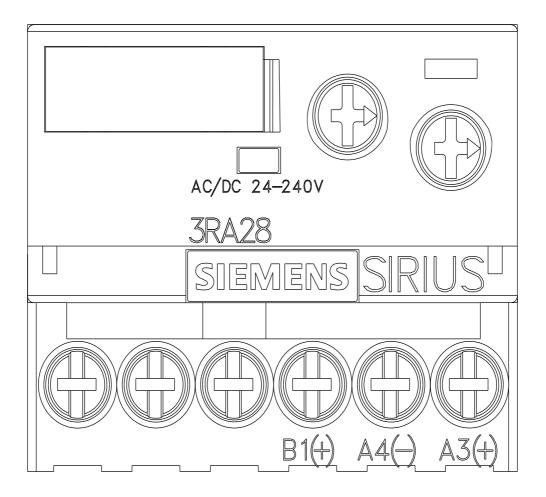
product brand name	SIRIUS
product designation	function module
product type designation	3RA28
General technical data	
size of contactor can be combined company-specific	S00, S0
product component semi-conductor output	Yes
product extension required remote control	No
product extension optional remote control	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
consumed current	
• at 24 V	24 mA
• at 240 V	7 mA
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 (operating cycles) typical	100 000 000
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 	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 according to IEC 81346-2	К
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

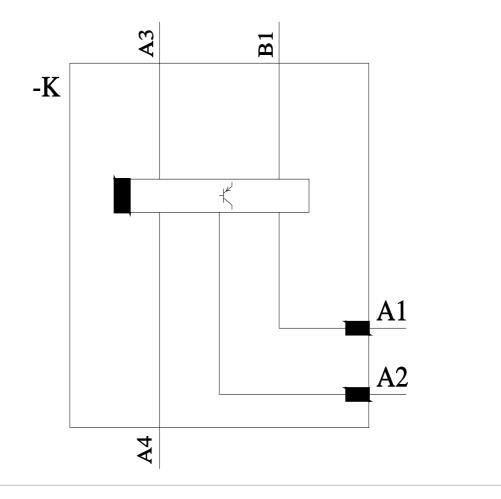
• at 60 Hz	24 240 V
control supply voltage frequency 1	24 240 V 50 60 Hz
control supply voltage 1	00 00 HZ
• at DC	24 240 V
operating range factor control supply voltage rated value at	
DC	
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 60 Hz	0.95
 initial value full-scale value 	0.85
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 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	Yes
OFF delay/instantaneous pulse delayed	No
 pulse delayed pulse delayed/instantaneous	No
 pulse delayed/instantaneous 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
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
signal/instantaneous contact	
retriggerable with deactivated control signal	No

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			
Main circuit				
type of voltage	AC/DC			
Inputs/ Outputs				
product function				
non-volatile	No			
Electromagnetic compatibility				
EMC immunity according to IEC 61812-1	Environment A (industrial area)			
conducted interference				
 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection			
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV			
 due to conductor-conductor surge according to IEC 61000-4-5 	1 KV			
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				
protection class IP on the front according to IEC 60529	IP20			
type of insulation	Basic insulation			
category according 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				
solid	0.5 4 mm ² , 2x (0.5 2.5 mm ²)			
finely stranded with core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)			
for AWG cables solid	2x (20 14)			
for AWG cables stranded connectable conductor cross-section	2x (20 14)			
solid	0.5 4 mm²			
 finely stranded with core end processing 	0.5 4 mm			
 finely stranded with core end processing 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			
— lorwards — 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 m	0 mm				
— upwards		0 m	0 mm				
— downwards			0 mm				
— at the side		0 m	ım				
Ambient conditions							
installation altitude at he	ight above sea level ma	ximum 2.0	00 m				
ambient temperature							
during operation		-25	-25 +60 °C				
during storage			-40 +85 °C				
during transport			-40 +85 °C				
	relative humidity during operation			095%			
Certificates/ approvals	oporation	•					
	oval		Declaration of Conform	aita	Test Certificates		
General Product Appr	Ovai		Declaration of Conform	шу	Test Certificates		
<u>Confirmation</u>		EHC	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report		
Test Certificates	Marine / Shipping						
<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		Lloyd's Register LRS	PRS		
Marine / Shipping		other	Railway				
RINA	RAPS	<u>Confirmation</u>	Vibration and Shock				
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Cax online generator							
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