## **SIEMENS**

Data sheet 3RA2832-1DH10



electronic timing relay, off delayed, with control signal and semiconductor output, time range 0.05-100 s, 90-240 V AC/DC, 50/60 Hz, varistor for attenuation of the contactor coils integrated, screw terminal, can be snapped onto the front on contactors 3RT203 / 3RT204

product brand name	SIRIUS
product designation	function module
product type designation	3RA28
General technical data	
size of contactor can be combined company-specific	S2, S3
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
mechanical service life (operating cycles)	
<ul> <li>with contactor 3R.2 of frame size S2</li> </ul>	5 000 000
with contactor 3R.2 of frame size S3	3 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	10 000 000
electrical endurance (operating cycles)	
<ul> <li>with contactor 3R.2 of frame size S2</li> </ul>	5 000 000
with contactor 3R.2 of frame size S3	3 000 000
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
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	0.096 kg
Product Function	0.000 Ng
product function star-delta circuit	No
Control circuit/ Control	
	AC/DC
type of voltage of the control supply voltage control supply voltage 1 at AC	NOIDO
at 50 Hz	90 240 V
• at 50 Hz • at 60 Hz	90 240 V
at 60 Hz  control supply voltage frequency 1	90 240 V 50 60 Hz
control supply voltage frequency 1 control supply voltage 1 at DC	90 240 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	0.85
initial value     full-scale value	0.85
• full-scale value     • operating range factor control supply voltage rated value at	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	No
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
passing make contact	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
OFF delay	Yes
switching function	
• flashing symmetrically with interval start/instantaneous	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	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	L.
constant clock cycle with pulse start	No
constant clock cycle with interval start	No
switching function	No.
variably clocked with pulse start	No No
variably clocked with interval start	No
switching function	No
star-delta circuit with delay time	No No
star-delta circuit     switching function with control signal	No
switching function with control signal	No
additive ON-delay     passing break contact	No No
passing break contact	No No
<ul><li>passing break contact/instantaneous</li><li>OFF delay</li></ul>	No Yes
	Yes
OFF delay/instantaneous     pulse delayed	No No
<ul><li>pulse delayed</li><li>pulse delayed/instantaneous</li></ul>	No
<ul> <li>pulse delayed/instantaneous</li> <li>pulse-shaping</li> </ul>	No
	No
pulse-shaping/instantaneous     additive ON-delay/instantaneous	No
<ul><li>additive ON-delay/instantaneous</li><li>ON-delay/OFF-delay</li></ul>	No
ON-delay/OFF-delay     ON-delay/OFF-delay/instantaneous	No
ON-delay/OFF-delay/instantaneous     passing make contact	No
<ul> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul>	No
Passing make contactinistantaneous contact	

switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	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	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	screw-type terminals
type of connectable conductor cross-sections	
• solid	0.5 4 mm², 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
• for AWG cables solid	2x (20 14)
for AWG cables stranded	2x (20 14)
connectable conductor cross-section	28 (20 14)
	ZX (20 14)
• solid	0.5 4 mm <sup>2</sup>
<ul><li>solid</li><li>finely stranded with core end processing</li></ul>	
	0.5 4 mm²
• finely stranded with core end processing	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.25 1.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.25 1.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.25 1.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.25 1.5 mm <sup>2</sup> 20 14 20 14
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position	0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.25 1.5 mm <sup>2</sup> 20 14 20 14 any (like contactor)
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14 any (like contactor) clip-on
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14 any (like contactor) clip-on 38 mm
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14 any (like contactor) clip-on 38 mm 45 mm
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions mounting position fastening method height width depth	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14  any (like contactor) clip-on 38 mm 45 mm
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14 any (like contactor) clip-on 38 mm 45 mm
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing     with side-by-side mounting	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14  any (like contactor) clip-on 38 mm 45 mm 74 mm
finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing     with side-by-side mounting     — forwards	0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm²  20 14 20 14  any (like contactor) clip-on 38 mm 45 mm 74 mm

— at the side	0 mm
	O I I I I I I
<ul> <li>for grounded parts</li> </ul>	
— 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	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	0 95 %
Approvals Certificates	

**General Product Approval** 

**Test Certificates** 





Confirmation





Type Test Certificates/Test Report

## Marine / Shipping













other

Environment

Confirmation

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)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2832-1DH10

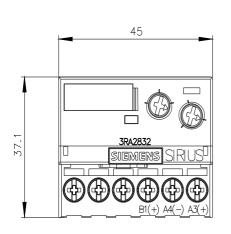
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2832-1DH10

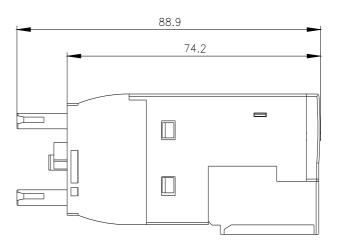
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

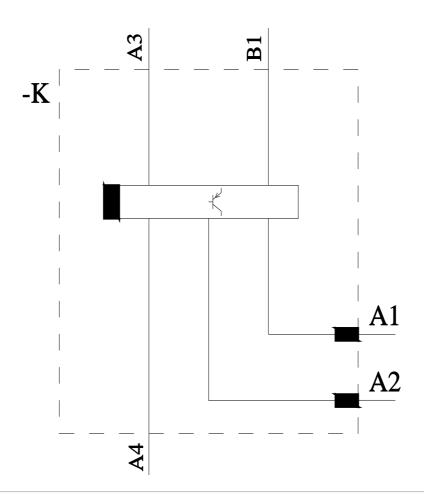
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2832-1DH10&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RA2832-1DH10/manual







last modified: 3/11/2024 🖸

