SIEMENS

Data sheet 3RA2832-1DH10



Electronic timing relay OFF delay With control signal and semiconductor output 90-240 V AC/DC Time range 0.05...100 s Can be snapped on at the front For contactors 3RT2, S2, S3 and 3RH2 S00 contactor relays Screw terminal

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			
protection class IP of the terminal	IP20			
shock resistance acc. to IEC 60068-2-27	15g / 11 ms			
vibration resistance acc. to IEC 60068-2-6	10 59 Hz: 0.35 mm, 60 150 Hz: 2g			
mechanical service life (switching cycles) typical	100 000 000			
mechanical service life (switching cycles)				
 with contactor 3R.2 of frame size S2 	5 000 000			
with contactor 3R.2 of frame size S3	3 000 000			
electrical endurance (switching cycles) at AC-15 at 230 V typical	10 000 000			
electrical endurance (switching cycles)				
 with contactor 3R.2 of frame size S2 	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 acc. to IEC 81346-2	K			
relative repeat accuracy	1 %			
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	90 240 V			

(00.11	00 0401/
• at 60 Hz	90 240 V
control supply voltage frequency 1	50 60 Hz
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	
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	With Vallotol
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	Al-
variably clocked with pulse start	No No
variably clocked with interval start switching function	No
star-delta circuit with delay time	No
star-delta circuit star-delta circuit	No
switching function with control signal	110
additive ON-delay	No
passing break contact	No
passing break contact/instantaneous	No
OFF delay	Yes
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
switching function of interval relay with control signal	N
 retrotriggerable with deactivated control signal/instantaneous contact 	No



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		
Auxiliary circuit			
number of NO contacts			
delayed switching	1		
operating frequency with 3RT2 contactor maximum	2 500 1/h		
influence of the surrounding temperature	±1 %		
power supply influence	±1 %		
Main circuit			
type of voltage	AC/DC		
Inputs/ Outputs			
product function			
• 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 61000-4-5 	1 kV		
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			
touch protection against electrical shock	finger-safe		
type of insulation	Basic insulation		
category acc. to EN 954-1	none		
Connections/ Terminals			
product function 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)		
 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)		
at AWG cables solid	2x (20 14)		
at AWG cables stranded	2x (20 14)		
 connectable conductor cross-section solid 	0.5 4 mm²		
 connectable conductor cross-section finely stranded with core end processing 	0.5 2.5 mm²		
connectable conductor cross-section finely stranded without core end processing	0.25 1.5 mm²		
 AWG number as coded connectable conductor cross section solid 	20 14		
AWG number as coded connectable conductor cross section stranded	20 14		
Installation/ mounting/ dimensions			
mounting position	any (like contactor)		
fastening method	clip-on		
height	38 mm		
width	45 mm		
depth required encoing	74 mm		
required spacing • with side-by-side mounting			
with side-by-side mounting — forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		



downwards		0 mm		
— at the side		0 mn	1	
for grounded parts				
— forwards		0 mn	0 mm	
— backwards		0 mn	1	
— upwards		0 mn	1	
— at the side		0 mn	1	
— downwards		0 mn	1	
for live parts				
— forwards		0 mn	1	
— backwards		0 mn	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		
ambient temperature during storage		-40 +85 °C		
ambient temperature during transport		-40 +85 °C		
relative humidity during operation		0 95 %		
Certificates/ approvals				
General Product Approval	Test Certifica	ites	Marine / Shipping	





Type Test
Certificates/Test
Report







Marine / Shipping









Confirmation

other

Further information

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=3RA2832-1DH10

Cax online generator

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

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

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

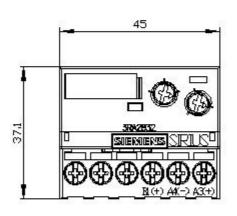
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

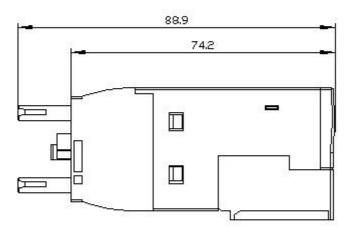
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2832-1DH10&lang=en

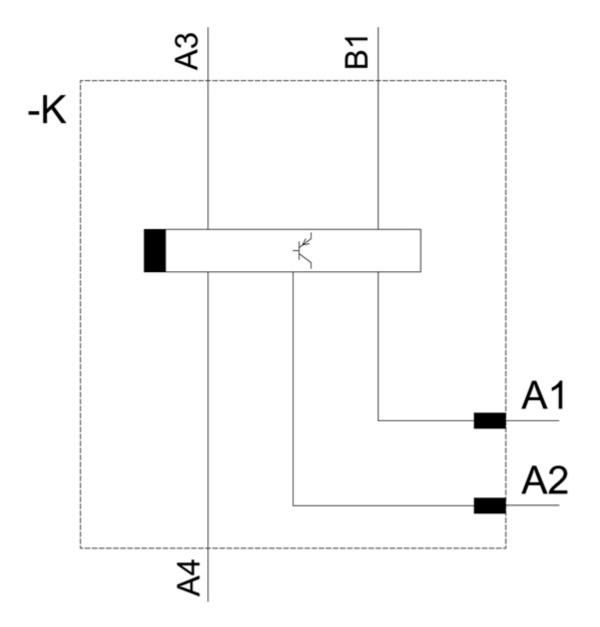
Characteristic: Derating

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









last modified: 10/16/2020 **C**