SIEMENS

Data sheet 3RA2832-2DH10



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 Springtype terminal

product type designation General technical data size of contactor can be combined company-specific product component semi-conductor output yes product extension required remote control No product extension optional remote control No	0	
Size of contactor can be combined company-specific S2, product component semi-conductor output Yes product extension required remote control No product extension optional remote control No	2, S3 es	
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product component semi-conductor output Yes product extension required remote control No product extension optional remote control No	es D	
product extension required remote control No product extension optional remote control No	0	
product extension optional remote control No		
P	0	
insulation voltage for overvoltage category III according to 300		
IEC 60664 with degree of pollution 3 rated value	00 V	
test voltage for isolation test 1.5	5 kV	
degree of pollution 3		
surge voltage resistance rated value 4 k	kV	
test voltage for surge voltage test 4 8	800 V	
protection class IP of the terminal IP2	20	
shock resistance acc. to IEC 60068-2-27	5g / 11 ms	
vibration resistance acc. to IEC 60068-2-6) 59 Hz: 0.35 mm, 60 150 Hz: 2g	
mechanical service life (switching cycles) typical 100	00 000 000	
mechanical service life (switching cycles)		
• with contactor 3R.2 of frame size S2 5 0	000 000	
• with contactor 3R.2 of frame size S3 3 0	000 000	
electrical endurance (switching cycles) at AC-15 at 230 V typical	0 000 000	
electrical endurance (switching cycles)		
• with contactor 3R.2 of frame size S2 5 0	000 000	
• with contactor 3R.2 of frame size S3 3 0	000 000	
adjustable time 0.0	05 100 s	
relative setting accuracy relating to full-scale value 15	5 %	
minimum ON period 35	5 ms	
recovery time 50) ms	
reference code acc. to IEC 81346-2		
relative repeat accuracy 1 %	%	
Product Function		
product function star-delta circuit No	0	
Control circuit/ Control		
type of voltage of the control supply voltage AC	C/DC	
control supply voltage 1 at AC		
• at 50 Hz) 240 V	

• 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	
switching function	
ON-delay	No
ON-delay/instantaneous contact pagaing make contact	No No
passing make contact passing make contact/instantaneous contact	No No
passing make contact/instantaneous contact OFF dalay	Yes
OFF delay switching function	165
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	Na
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	
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 retrotriggerable with deactivated control signal/instantaneous contact.	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
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	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 at AWG cables solid 	2x (0.5 1.5 mm²)
at AWG cables stranded at AWG cables stranded	2x (20 14) 2x (20 14)
 connectable conductor cross-section solid connectable conductor cross-section finely stranded 	0.5 4 mm ² 0.5 2.5 mm ²
with core end processing	
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	74 mm
required spacing	
with side-by-side mounting	0 mm
— torwards	V IIIIII
— forwards — backwards	
— forwards — backwards — upwards	0 mm 0 mm



downwards		0 mn	1		
— at the side		0 mn	1		
 for grounded parts 					
— forwards		0 mn	1		
— 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			1		
— upwards	•		0 mm		
— downwards	— 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=3RA2832-2DH10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2832-2DH10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2832-2DH10

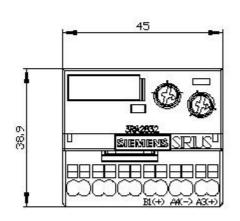
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

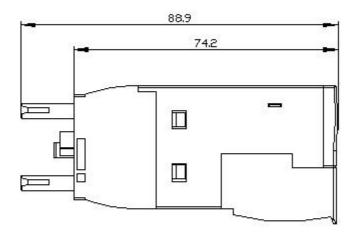
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2832-2DH10&lang=en

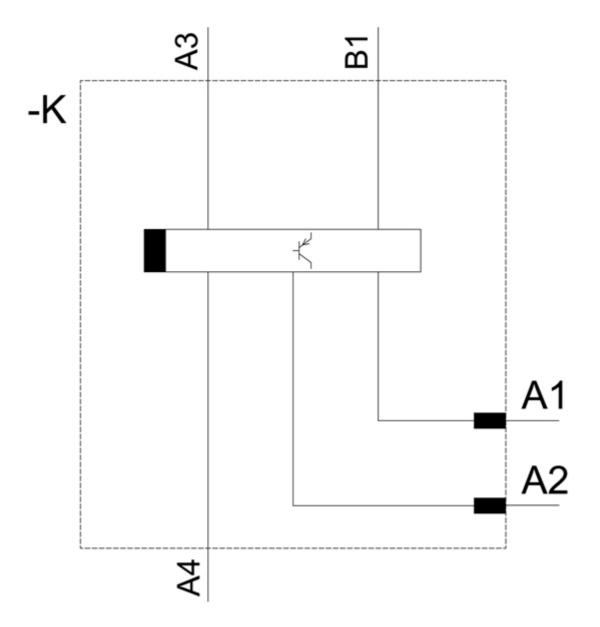
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RA2832-2DH10/manual









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