SIEMENS

Data sheet

3RA2832-2DG10



Electronic timing relay OFF delay With control signal and semiconductor output 24-90 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 Spring-type 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	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	01.10.2009 00:00:00		
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 90 V		

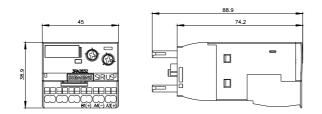
control supply voltage frequency 1 control supply voltage 1	50 60 Hz
at DC	24 90 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.85
full-scale value	1.1
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	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	No
star-delta circuit with delay time	No
star-delta circuit switching function with control signal	No
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	No
signal/instantaneous contact	No
retrotriggerable with switched on control signal	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No

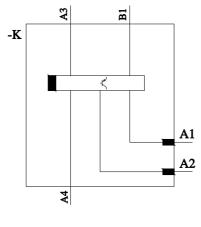
 retriggerable with deactivated control signal 	No
design of the control terminal non-floating	Yes
Auxiliary circuit	
number of NO contacts	
delayed switching	1
operating frequency with 3RT2 contactor maximum	2 500 1/h
influence of the surrounding temperature	±1 %
power supply influence	±1 %
Main circuit	11/0
	AC/DC
type of voltage Inputs/ Outputs	ACIDC
product function onumber of the second sec	No
	110
Electromagnetic compatibility	Environment (/industrial area)
EMC immunity acc. to IEC 61812-1 conducted interference	Environment A (industrial area)
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 due to conductor-conductor surge acc. to IEC 	2 KV 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	Yes
and control circuit	
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 	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 mm²
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
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— backwards	0 mm

— upwards — at the side			0 mm 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 h	eight above sea leve	l maximum	2 000 m		
ambient temperature					
 during operation 			-25 +60 °C		
 during storage 			-40 +85 °C		
 during transport 			-40 +85 °C		
relative humidity during	operation		0 95 %		
Certificates/ approvals					
Certificates/ approvais					
	roval	Declaration of		Test Certificates	Marine / Shipping
General Product App	roval	Declaration of	Conformity	Test Certificates <u>Type Test Certificates</u> ates/Test Report	Marine / Shipping
	roval	CE	UK Declaration of	Type Test Certific-	Marine / Shipping
General Product App	roval EAC Lloyds Register Us	CE	UK Declaration of	Type Test Certific-	Marine / Shipping
General Product App	ERC	CE	UK Declaration of	Type Test Certific-	ABS

Further information

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