SIEMENS

Data sheet 3RP2025-2AP30



Timing relay, electronic slow-operating 1 change-over contact 24 V AC/DC, 200 to 240 V AC at 50/60~Hz AC 0.05~s to 100~h Overall width 45~mm Spring-type terminal

product brand name product designation design of the product	SIRIUS timing relay
	timing relay
design of the product	9 ,
	slow-operating
product type designation	3RP20
Seneral technical data	
product component	
• relay output	Yes
semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
shock resistance according to IEC 60068-2-27	11g / 15 ms
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 100 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	150 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	±5 %
power supply influence	±1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage 2 at AC	
● at 50 Hz	200 240 V
• at 60 Hz	200 240 V
control supply voltage frequency 1	50 60 Hz

control supply voltage 1	244
at DC rated value	24 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
Switching Function	
switching function	
 ON-delay 	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
OFF delay	No
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	
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	No
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/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
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control signal/instantaneous contact	No
retriggerable with deactivated control signal	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0
, ,	
• instantaneous contact	0
instantaneous contact number of NO contacts	0
	0

instantaneous contact	0			
number of CO contacts				
 delayed switching 	1			
instantaneous contact	0			
operational current of auxiliary contacts at AC-15				
• at 24 V	3 A			
● at 250 V	3 A			
operational current of auxiliary contacts at DC-13				
● at 24 V	1 A			
● at 125 V	0.2 A			
● at 250 V	0.1 A			
operating frequency with 3RT2 contactor maximum	5 000 1/h			
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) $$			
contact rating of auxiliary contacts according to UL	R300 / B300			
Inputs/ Outputs				
product function				
• non-volatile	No			
Electromagnetic compatibility				
EMC emitted interference according to IEC 61812-1	EN 61000-6-4(3)			
EMC immunity according to IEC 61812-1	EN 61000-6-2			
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	4 kV contact discharge / 8 kV air discharge			
Safety related data				
category according to EN 954-1	none			
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	No			
type of electrical connection for auxiliary and control circuit	spring-loaded terminals			
type of connectable conductor cross-sections				
• solid	2x (0,25 2,5 mm²)			
 finely stranded with core end processing 	2 x (0.25 1.5 mm²)			
 finely stranded without core end processing 	2x (0.25 2.5 mm²)			
 for AWG cables solid 	2x (24 14)			
for AWG cables stranded	2x (24 14)			
connectable conductor cross-section				
• solid	0.3 2.5 mm²			
 finely stranded with core end processing 	0.3 1.5 mm²			
finely stranded without core end processing	2.5 2.5 mm²			
AWG number as coded connectable conductor cross				
section	24 14			
solid stranded	24 14			
stranged Installation/ mounting/ dimensions	24 14			
	ODV.			
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail 57 mm			
height	57 mm			
	73 mm			
depth required spacing	10 11111			
required spacing				
 with side-by-side mounting 				
with side-by-side mounting forwards	0 mm			
— forwards	0 mm			
	0 mm 0 mm 0 mm			

d	0			
— 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 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			
during storage	-40 +85 °C			
 during transport 	-40 +85 °C			
relative humidity during operation	10 95 %			
Approvals Certificates				
General Product Approval		EMC	Declaration of Conformity	



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









Marine / Shipping

other



Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2025-2AP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2025-2AP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

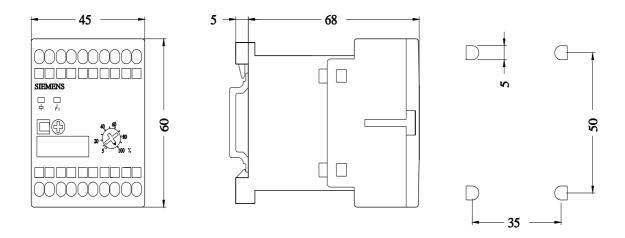
https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-2AP30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2025-2AP30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-2AP30/manual



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