SIEMENS

Data sheet 3RP2025-1AQ30



Timing relay, electronic slow-operating 1 change-over contact 24 V AC/DC, 200 to 127 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP20
General 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	К
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	100 127 V
• at 60 Hz	100 127 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	screw-type terminals		
type of connectable conductor cross-sections			
• solid	2x (0,51,5 mm²), 2x (0,75 2,5 mm²)		
 finely stranded with core end processing 	2x (0,51,5 mm²), 2x (0,75 2,5 mm²)		
• for AWG cables solid	2x (18 14)		
• for AWG cables stranded	2x (18 14)		
connectable conductor cross-section			
• solid	0.5 2.5 mm²		
 finely stranded with core end processing 	0.5 2.5 mm²		
AWG number as coded connectable conductor cross section			
• solid	18 14		
• stranded	18 14		
tightening torque	0.8 1.2 N·m		
design of the thread of the connection screw	M3		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail		
height	57 mm		
width	45 mm		
depth	73 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		

General Product Approval		EMC	Declaration of Con-
Approvals Certificates			
relative humidity during operation	10 95 %		
during transport	-40 +85 °C		
during storage	-40 +85 °C		
during operation	-25 +60 °C		
ambient temperature			
installation altitude at height above sea level maximum	2 000 m		
Ambient conditions			
— at the side	0 mm		
— downwards	0 mm		
— upwards	0 mm		
— backwards	0 mm		
— forwards	0 mm		
• for live parts	-		
— downwards	0 mm		
— at the side	0 mm		
— upwards	0 mm		
— backwards	0 mm		
for grounded partsforwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		



Confirmation









formity

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=3RP2025-1AQ30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2025-1AQ30

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

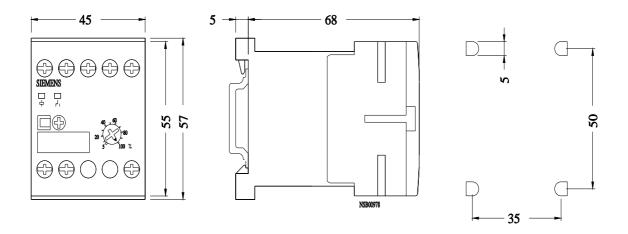
https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-1AQ30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2025-1AQ30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-1AQ30/manual



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