SIEMENS

Data sheet

3RP2025-2AQ30



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 Spring-type terminal

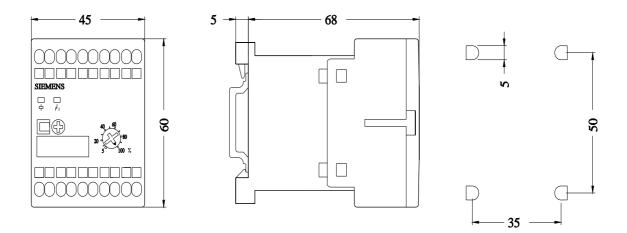
16 A2-			
product brand name	SIRIUS		
product designation	timing relay		
design of the product	slow-operating		
product type designation	3RP20		
General technical data			
product component			
 relay output 	Yes		
 semi-conductor output 	No		
product extension required remote control	No		
product extension 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 oursely voltage 4	
control supply voltage 1	24.14
• 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
number of NO contacts	
 delayed switching 	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	1A		
• at 125 V	0.2 A		
• at 250 V	0.1 A		
operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts	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)		
	ZA (ZH 14)		
connectable conductor cross-section			
• solid	0.3 2.5 mm²		
solidfinely stranded with core end processing	0.3 2.5 mm² 0.3 1.5 mm²		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross 	0.3 2.5 mm²		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section 	0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid 	0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm² 24 14		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded 	0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions 	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail 57 mm		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height width	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height width depth	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm		
solid inely stranded with core end processing inely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting 	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm 73 mm		
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards 	0.3 2.5 mm ² 0.3 1.5 mm ² 2.5 2.5 mm ² 24 14 24 14 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm 73 mm 0 mm		

		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 lev	el maximum	2 000 m			
ambient temperature		2 000 111			
during operation		-25 +60 °C			
•		-40 +85 °C			
during storage		-40 +85 °C			
during transport		-40 +85 °C 10 95 %			
relative humidity during operation		10 95 %			
Approvals Certificates					
General Product Approval			EMC	Declaration of Con- formity	
				-	
Confirmation	(U) U	EAC		UK CA	
Declaration of Con- formity Test Certificate	s Marine / Shippin	ng			
EG-Konf.		Lloyds Register urs	RINA	KMRS	
Marine / Shipping other					
	1				
Further information	• • • •				
Siemens has decided to exit the Russia		wn-russian-business			
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					
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	Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2025-2AQ30				
Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
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https://support.industry.siemens.com/cs/w	, Characteristics, FAQs, w/en/ps/3RP2025-2AQ30)			
	, Characteristics, FAQs, w/en/ps/3RP2025-2AQ30 mension drawings, 3D n) nodels, device circuit diag			

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-2AQ30/manual



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