



SOLID-STATE TIME-DELAY RELAY ON-DELAY 1
CHANGEOVER CONTACT AC/DC 24V, AC 100 TO
127V 0.05 S TO 100H WIDTH 45MM CAGE CLAMP

Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		timing relay
mounting position		any
Product function non-volatile		No
Product component		
• Relay output		Yes
• semi-conductor output		No
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
Relative humidity during operation	%	10 ... 95
EMC emitted interference acc. to IEC 61812-1		EN 61000-6-4(3)
EMI immunity acc. to IEC 61812-1		EN 61000-6-2
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV network connection / 1 kV control connection

Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV
Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Surge voltage resistance Rated value	V	4 000
Active power loss total typical	W	2
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking acc. to DIN EN 81346-2		K
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe
Protection class IP		IP20
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000
Operating frequency with 3RT2 contactor maximum	1/h	5 000
Vibration resistance acc. to IEC 60068-2-6		10 ... 55 Hz / 0.35 mm
Shock resistance acc. to IEC 60068-2-27		11g / 15 ms
Relative repeat accuracy	%	1
Recovery time	ms	150
Degree of pollution		3
Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value	V	300
Relative setting accuracy relating to full-scale value	%	5

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
• flashing asymmetrically starting with interval	No
• flashing asymmetrically starting with pulse	No
• flashing symmetrically starting with pulse	No
• flashing symmetrically starting with pulse/instantaneous	No
• flashing symmetrically starting with interval	No
• flashing symmetrically starting with interval/instantaneous	No
• star-delta circuit	No

<ul style="list-style-type: none"> • star-delta circuit with delay time 		No
Switching function with control signal		
<ul style="list-style-type: none"> • additive ON delay 		No
<ul style="list-style-type: none"> • passing break contact 		No
<ul style="list-style-type: none"> • OFF delay 		No
<ul style="list-style-type: none"> • pulse-shaping 		No
<ul style="list-style-type: none"> • OFF delay/instantaneous 		No
<ul style="list-style-type: none"> • ON-delay/OFF-delay/instantaneous 		No
<ul style="list-style-type: none"> • passing break contact/instantaneous 		No
<ul style="list-style-type: none"> • additive ON delay/instantaneous 		No
<ul style="list-style-type: none"> • ON-delay/OFF-delay 		No
<ul style="list-style-type: none"> • passing make contact 		No
<ul style="list-style-type: none"> • passing make contact/instantaneous contact 		No
<ul style="list-style-type: none"> • pulse delayed 		No
<ul style="list-style-type: none"> • pulse delayed/instantaneous 		No
<ul style="list-style-type: none"> • pulse-shaping/instantaneous 		No
Switching function of interval relay with control signal		
<ul style="list-style-type: none"> • retrotriggerable with deactivated control signal/instantaneous contact 		No
<ul style="list-style-type: none"> • retrotriggerable with activated control signal 		No
<ul style="list-style-type: none"> • retrotriggerable with activated control signal/instantaneous contact 		No
<ul style="list-style-type: none"> • retriggerable with deactivated control signal 		No

Control circuit/ Control:		
Adjustable time	s	0.05 ... 360 000
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1	Hz	50 ... 60
Control supply voltage frequency 2	Hz	50 ... 60
Control supply voltage 2 at AC		
<ul style="list-style-type: none"> • at 50 Hz 	V	100 ... 127
<ul style="list-style-type: none"> • at 60 Hz 	V	100 ... 127
Operating range factor control supply voltage rated value		
<ul style="list-style-type: none"> • at AC <ul style="list-style-type: none"> — at 50 Hz — at 60 Hz • at DC 		0.85 ... 1.1 0.85 ... 1.1 0.85 ... 1.1

Auxiliary circuit:		
Contact reliability of the auxiliary contacts		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
Material of switching contacts		AgSnO2
Operating current of the auxiliary contacts		

<ul style="list-style-type: none"> • at AC-15 <ul style="list-style-type: none"> — at 24 V — at 250 V • at DC-13 <ul style="list-style-type: none"> — at 24 V — at 125 V — at 250 V 	A	3
	A	3
	A	1
	A	0.2
	A	0.1
Design of the fuse link for short-circuit protection of the auxiliary switch required		fuse gL/gG: 4 A
Thermal current	A	5
Number of NC contacts		
<ul style="list-style-type: none"> • delayed switching • instantaneous contact 		0
		0
Number of NO contacts		
<ul style="list-style-type: none"> • delayed switching • instantaneous contact 		0
		0
Number of CO contacts		
<ul style="list-style-type: none"> • delayed switching • instantaneous contact 		1
		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	45
Height	mm	57
Depth	mm	73
Required spacing with side-by-side mounting		
<ul style="list-style-type: none"> • upwards • forwards • at the side • Backwards • downwards 	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
Required spacing for grounded parts		
<ul style="list-style-type: none"> • Backwards • at the side • upwards • forwards • downwards 	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
Required spacing for live parts		
<ul style="list-style-type: none"> • downwards • Backwards • at the side • forwards 	mm	0
	mm	0
	mm	0
	mm	0






- upwards

mm 0

Connections/ Terminals:

Type of electrical connection for auxiliary and control current circuit	spring-loaded terminals
Type of connectable conductor cross-section	
<ul style="list-style-type: none"> • solid 	2x (0,25 ... 2,5 mm ²)
<ul style="list-style-type: none"> • finely stranded <ul style="list-style-type: none"> — without core end processing — with core end processing 	2x (0.25 ... 2.5 mm ²) 2 x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> • for AWG conductors <ul style="list-style-type: none"> — stranded — solid 	2x (24 ... 14) 2x (24 ... 14)

Certificates/ approvals:

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CCC	 EAC	 UL	 C-TICK
		 EG-Konf.	spezielle Prüfbescheinigungen n

Shipping Approval



Shipping Approval	other
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[Umweltbestätigung](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP20252AQ30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP20252AQ30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP20252AQ30&lang=en

