



Timing relay, Multifunction 1 NO semiconductor 13 functions 7 time ranges (0.05 s...100 h) 12-240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

<b>product brand name</b>	SIRIUS
<b>product designation</b>	timing relay
<b>design of the product</b>	13 functions
<b>product type designation</b>	3RP25
<b>General technical data</b>	
<b>product component</b>	
• relay output	No
• semi-conductor output	Yes
<b>product extension required remote control</b>	No
<b>product extension optional remote control</b>	No
<b>power loss [W] maximum</b>	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
<b>test voltage for isolation test</b>	2.5 kV
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	4 000 V
<b>protection class IP</b>	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 ... 55 Hz / 0.35 mm
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	300 000
<b>adjustable time</b>	0.05 s ... 100 h
<b>relative setting accuracy relating to full-scale value</b>	5 %; +/-
<b>thermal current</b>	1 A
<b>minimum ON period</b>	35 ms
<b>recovery time</b>	400 ms
<b>reference code according to IEC 81346-2</b>	K
<b>relative repeat accuracy</b>	1 %; +/-
influence of the surrounding temperature	1% in the whole temperature range to the set runtime
power supply influence	1% in the whole voltage range to the set runtime
<b>Substance Prohibitance (Date)</b>	09/12/2014
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	AC/DC
<b>control supply voltage 1 at AC</b>	
• at 50 Hz	12 ... 240 V
• at 60 Hz	12 ... 240 V
<b>control supply voltage frequency 1</b>	50 ... 60 Hz
<b>control supply voltage 1</b>	
• at DC	12 ... 240 V

<b>operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.8 1.1
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.8 1.1
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.8 1.1
<b>inrush current peak</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 240 V</li> </ul>	0.5 A 5 A
<b>duration of inrush current peak</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 240 V</li> </ul>	0.4 ms 0.5 ms
<b>Switching Function</b>	
<b>switching function</b>	
<ul style="list-style-type: none"> <li>ON-delay</li> <li>ON-delay/instantaneous contact</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>OFF delay</li> </ul>	Yes No Yes No No
<b>switching function</b>	
<ul style="list-style-type: none"> <li>flashing symmetrically with interval start/instantaneous</li> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with pulse start/instantaneous</li> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> </ul>	No Yes No Yes No No
<b>switching function</b>	
<ul style="list-style-type: none"> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> </ul>	No No
<b>switching function with control signal</b>	
<ul style="list-style-type: none"> <li>additive ON-delay</li> <li>passing break contact</li> <li>passing break contact/instantaneous</li> <li>OFF delay</li> <li>OFF delay/instantaneous</li> <li>pulse delayed</li> <li>pulse delayed/instantaneous</li> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul>	Yes Yes No Yes No Yes No Yes No No No Yes No
<b>switching function of interval relay with control signal</b>	
<ul style="list-style-type: none"> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> </ul>	No Yes No Yes
<b>design of the control terminal non-floating</b>	Yes
<b>Short-circuit protection</b>	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A

Auxiliary circuit	
<b>number of NC contacts</b>	
• delayed switching	0
• instantaneous contact	0
<b>number of NO contacts</b>	
• delayed switching	1
• instantaneous contact	0
<b>number of CO contacts</b>	
• delayed switching	0
• instantaneous contact	0
<b>operational current of auxiliary contacts at AC-15</b>	
• at 24 V	1 A
• at 250 V	1 A
<b>operational current of auxiliary contacts at DC-12</b>	
• at 24 V	1 A
• at 125 V	1 A
• at 250 V	1 A
<b>operating frequency with 3RT2 contactor maximum</b>	5 000 1/h
<b>switching capacity current with inductive load</b>	0.01 ... 1 A
Inputs/ Outputs	
<b>product function</b>	
• at the relay outputs switchover delayed/without delay	No
• non-volatile	No
residual current maximum	0.5 mA
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3
<b>conducted interference</b>	
• 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
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	4 kV contact discharge / 8 kV air discharge
Safety related data	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>category according to EN 954-1</b>	none
Connections/ Terminals	
<b>product component removable terminal for auxiliary and control circuit</b>	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
• solid	1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing	1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
• at AWG cables solid	1x (20 ... 12), 2x (20 ... 14)
• at AWG cables stranded	1x (20 ... 12), 2x (20 ... 14)
<b>connectable conductor cross-section</b>	
• solid	0.5 ... 4 mm <sup>2</sup>
• finely stranded with core end processing	0.5 ... 4 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
• solid	20 ... 12
• stranded	20 ... 14
<b>tightening torque</b>	0.6 ... 0.8 N·m
<b>design of the thread of the connection screw</b>	M3
Installation/ mounting/ dimensions	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting onto 35 mm standard mounting rail

<b>height</b>	100 mm
<b>width</b>	17.5 mm
<b>depth</b>	90 mm
<b>required spacing</b>	
<ul style="list-style-type: none"> <li>● with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>● for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— at the side 0 mm</li> <li>— downwards 0 mm</li> </ul> </li> <li>● for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> </ul>	

<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>● during operation -25 ... +60 °C</li> <li>● during storage -40 ... +85 °C</li> <li>● during transport -40 ... +85 °C</li> </ul>	
relative humidity during operation	10 ... 95 %

<b>Certificates/ approvals</b>	
<b>General Product Approval</b>	<b>EMC</b>



[Confirmation](#)



<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>Marine / Shipping</b>
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[Type Test Certificates/Test Report](#)



<b>Marine / Shipping</b>	<b>other</b>
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[Confirmation](#)

**Further information**

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

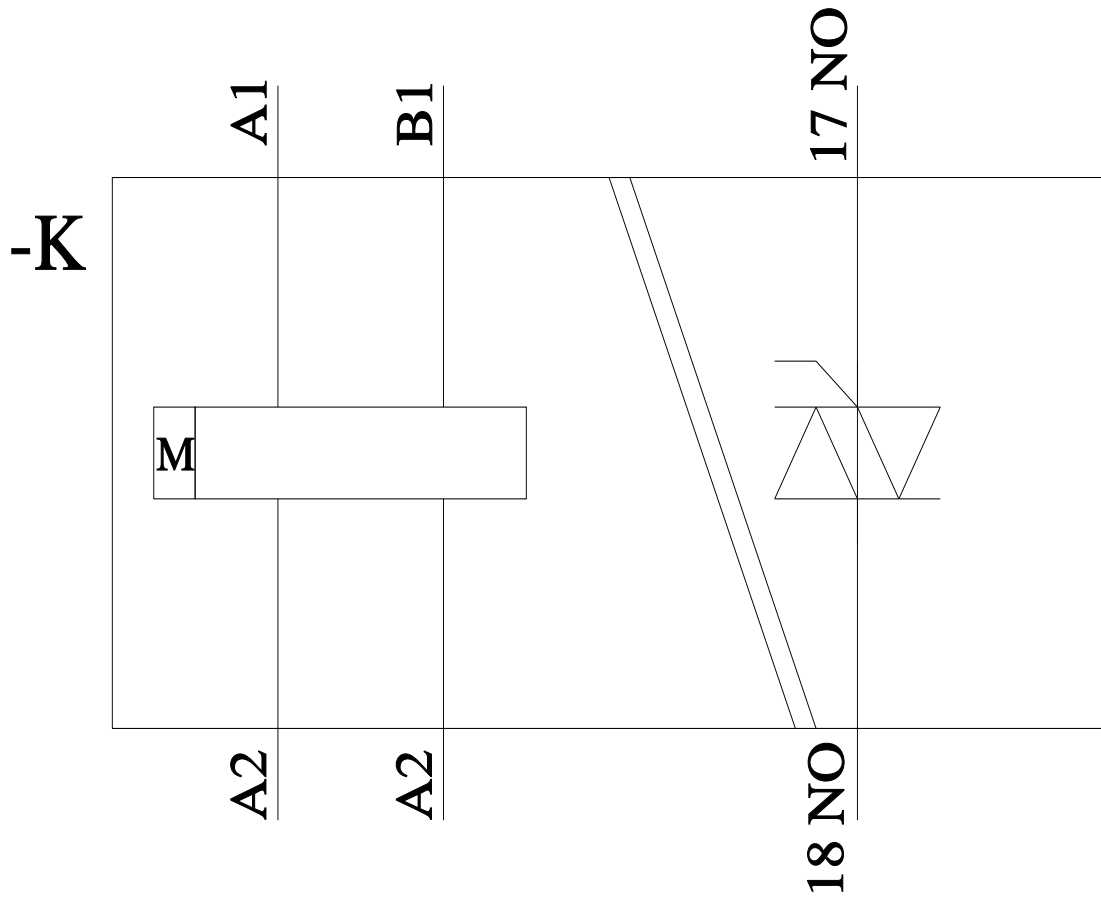
<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RP2505-1CW30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RP2505-1CW30>



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