

TIME RELAY, ELECTRONIC, WITH STAR-DELTA  
FUNCTION, 1...20S, TRACK. T.. 30...600S, 3  
CONTACTORS, WITH COMMON ROOT, 12...240V  
AC/DC AT AC 50/60HZ, LED, 0.85 ...1,1US



Figure similar

General technical data:		
product brand name		SIRIUS
Product designation		3RP25 timing relays 17.5 mm and 22.5 mm
Design of the product		Star-delta (wye-delta) function with overtravel function (idling)
Mounting position		any
Product function at the relay outputs Switchover delayed/without delay		No
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
Power loss [W] total typical	W	2
Equipment marking		
• acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
• acc. to DIN EN 61346-2		K
• acc. to DIN EN 81346-2		K
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe
Protection class IP		IP20
Type of insulation		Basic insulation
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	250
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
Product extension required remote control		No
Product extension optional remote control		No

#### Switching Function:

Switching function		
• ON-delay		No
• ON-delay/instantaneous contact		No
• passing make contact		No
• passing make contact/instantaneous contact		No
• OFF delay		No

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

Control circuit/ Control:		
<b>Adjustable time</b>	s	1 ... 20
<b>Type of voltage of the control supply voltage</b>		AC/DC
<b>Control supply voltage frequency 1</b>	Hz	50 ... 60
<b>Control supply voltage 1</b>		
<ul style="list-style-type: none"> <li>• at AC at 50 Hz</li> <li>• at AC at 60 Hz</li> <li>• at DC</li> </ul>	V V V	12 ... 240 12 ... 240 12 ... 240
<b>Operating range factor control supply voltage rated value</b>		

<ul style="list-style-type: none"> <li>• at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> <li>• at DC</li> </ul>		0.85 ... 1.1 0.85 ... 1.1 0.85 ... 1.1
<b>Inrush current peak</b>		
<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 240 V</li> </ul>	A A	0.5 5
<b>Duration of inrush current peak</b>		
<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 240 V</li> </ul>	ms ms	0.4 0.5
<b>Power loss [W] at AC maximum</b>	W	1.25
<b>Power loss [V·A] at AC maximum</b>	V·A	3.35

#### Auxiliary circuit:

<b>Contact reliability of auxiliary contacts</b>		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
<b>Material of switching contacts</b>		AgSnO2
<b>Operating current of auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>• at AC-15 <ul style="list-style-type: none"> <li>— at 24 V</li> <li>— at 250 V</li> </ul> </li> <li>• at DC-13 <ul style="list-style-type: none"> <li>— at 24 V</li> <li>— at 125 V</li> <li>— at 250 V</li> </ul> </li> </ul>	A A  A A A	 3 3  1 0.2 0.1
<b>Influence of the surrounding temperature</b>		1% in the whole temperature range to the set runtime
<b>Power supply influence</b>		1% in the whole voltage range to the set runtime
<b>Test voltage for isolation test</b>	kV	2.5
<b>Design of the fuse link for short-circuit protection of the auxiliary switch required</b>		fuse gL/gG: 4 A
<b>Thermal current</b>	A	5
<b>Switching capacity current with inductive load</b>	A	0.01 ... 3
<b>Number of NC contacts</b>		
<ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>		0 0
<b>Number of NO contacts</b>		
<ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>		2 1
<b>Number of CO contacts</b>		
<ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>		0 0
<b>Contact rating of auxiliary contacts according to UL</b>		R300 / B300

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail
<b>Width</b>	mm	22.5
<b>Height</b>	mm	100
<b>Depth</b>	mm	90
<b>Required spacing with side-by-side mounting</b>		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
<b>Required spacing for grounded parts</b>		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	0
• downwards	mm	0
<b>Required spacing for live parts</b>		
• downwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• forwards	mm	0
• upwards	mm	0

#### Connections/ Terminals:

<b>Type of electrical connection for auxiliary and control current circuit</b>		PUSH-IN connection (spring-loaded connection)
<b>Product function removable terminal for auxiliary and control circuit</b>		Yes
<b>Type of connectable conductor cross-sections</b>		
• solid		0.5 ... 4 mm <sup>2</sup>
• finely stranded		
— without core end processing		0.5 ... 4 mm <sup>2</sup>
— with core end processing		0.5 ... 2.5 mm <sup>2</sup>
• at AWG conductors		
— stranded		20 ... 12
— solid		20 ... 12
<b>Ampacity of the bridge terminals maximum</b>	A	10

#### Certificates/approvals

General Product Approval				Declaration of Conformity	Test Certificates
 CCC	 CSA	 UL		 EG-Konf.	<a href="#">Typprüfbescheinigung/Werkszeugnis</a>

Shipping Approval	other
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[Umweltbestätigung](#)

[Bestätigungen](#)

#### Further information

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

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

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2560-2SW30>

##### Cax online generator

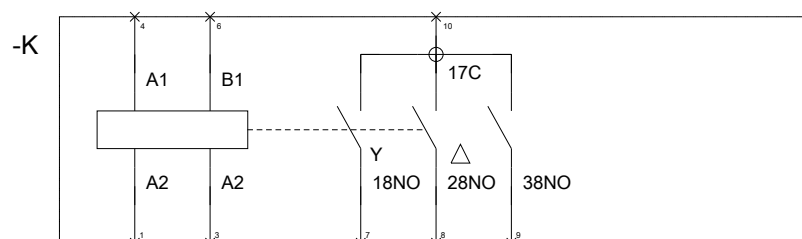
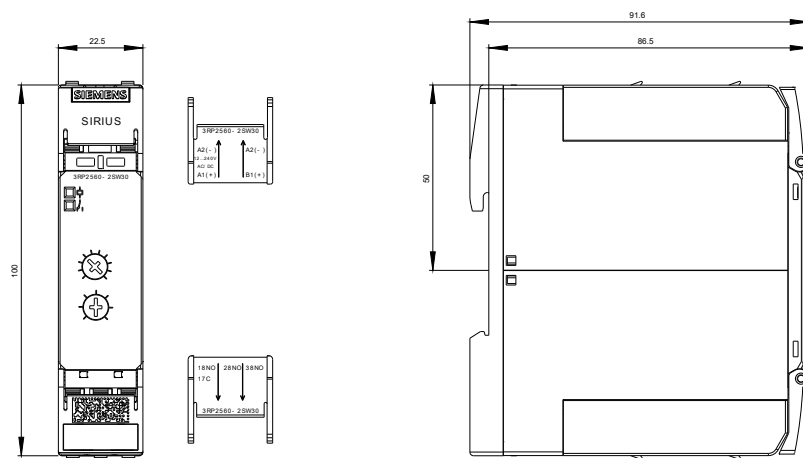
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2560-2SW30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP2560-2SW30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP2560-2SW30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2560-2SW30&lang=en)



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