



Figure similar

TIME RELAY, MULTI-FUNCTION, 2 CO CONTACTS, 27 FUNCTIONS, 15 TIME SET. RANGES, (1, 3, 10, 30, 100), (S/MIN/HR), 24V AC/DC AT AC 50/60HZ, LED, SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Product designation		timing relay
mounting position		any
Product function at the relay outputs Switchover delayed/without delay		Yes
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	%	15 ... 70
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 BURST acc. to IEC 61000-4-4		2 kV network connection / 1 kV control connection
Conducted interference conductor-earth SURGE acc. to IEC 61000-4-5		2 kV
Conducted interference 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
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Reference code 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
Shock resistance acc. to IEC 60068-2-27		11g / 15 ms
Relative repeat accuracy	%	1
Recovery time	ms	150
Minimum ON period	ms	35
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:

<b>Switching function</b>		
• ON-delay		Yes
• ON-delay/instantaneous contact		Yes
• passing make contact		Yes
• passing make contact/instantaneous contact		Yes
• OFF delay		Yes
• flashing asymmetrically starting with interval		No
• flashing asymmetrically starting with pulse		No
• flashing symmetrically starting with pulse		Yes
• flashing symmetrically starting with pulse/instantaneous		Yes
• flashing symmetrically starting with interval		Yes
• flashing symmetrically starting with interval/instantaneous		Yes
• star-delta circuit		Yes
• star-delta circuit with delay time		No
<b>Switching function with control signal</b>		
• additive ON delay		Yes
• passing break contact		Yes

• OFF delay	Yes
• pulse-shaping	Yes
• OFF delay/instantaneous	Yes
• ON-delay/OFF-delay/instantaneous	Yes
• passing break contact/instantaneous	Yes
• additive ON delay/instantaneous	Yes
• ON-delay/OFF-delay	Yes
• passing make contact	Yes
• passing make contact/instantaneous contact	Yes
• pulse delayed	Yes
• pulse delayed/instantaneous	Yes
• pulse-shaping/instantaneous	Yes
<b>Switching function of interval relay with control signal</b>	
• retrotriggerable with deactivated control signal/instantaneous contact	Yes
• retrotriggerable with activated control signal	Yes
• retrotriggerable with activated control signal/instantaneous contact	Yes
• retriggerable with deactivated control signal	Yes
<b>Design of the control terminal non-floating</b>	Yes

#### Control circuit/ Control:

<b>Adjustable time</b>	s	0.05 ... 360 000
<b>Type of voltage of the control supply voltage</b>		AC/DC
<b>Control supply voltage frequency 1</b>	Hz	50 ... 60
<b>Operating range factor control supply voltage rated value</b>		
• with AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• for DC		0.85 ... 1.1

#### Auxiliary circuit:

<b>Contact reliability of the 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 the auxiliary contacts</b>		
• at AC-15		
— at 24 V	A	3
— at 250 V	A	3
• at DC-13		
— at 24 V	A	1
— at 125 V	A	0.2
— at 250 V	A	0.1

<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</b> • with inductive load	A	0.01 ... 3
<b>Number of NC contacts</b> • delayed switching • instantaneous contact		0 0
<b>Number of NO contacts</b> • delayed switching • instantaneous contact		0 0
<b>Number of CO contacts</b> • delayed switching • instantaneous contact		2 0

#### 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>Spacing required with side-by-side mounting</b> • upwards • forwards • at the side • Backwards • downwards	mm mm mm mm mm	0 0 0 0 0
<b>Spacing required for grounded parts</b> • Backwards • at the side • upwards • forwards • downwards	mm mm mm mm mm	0 0 0 0 0
<b>Spacing required for live parts</b> • downwards • Backwards • at the side • forwards • upwards	mm mm mm mm mm	0 0 0 0 0

#### Connections/ Terminals:

<b>Design of the electrical connection for auxiliary and control current circuit</b>		screw-type terminals
<b>Type of connectable conductor cross-section</b>		

- solid
- finely stranded
  - with core end processing
- for AWG conductors
  - stranded
  - solid

1x (0.5 ... 4.0 mm<sup>2</sup>), 2x (0.5 ... 2.5 mm<sup>2</sup>)

1x (0.5 ... 4 mm<sup>2</sup>), 2x (0.5 ... 1.5 mm<sup>2</sup>)

1x (20 ... 12), 2x (20 ... 14)

1x (20 ... 12), 2x (20 ... 14)

**Tightening torque**

N·m

0.6 ... 0.8

Certificates/ approvals:

**General Product  
Approval**

**Declaration of  
Conformity**

**other**



[Environmental Confirmations](#)

Further information

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

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

**Industry Mall (Online ordering system)**

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

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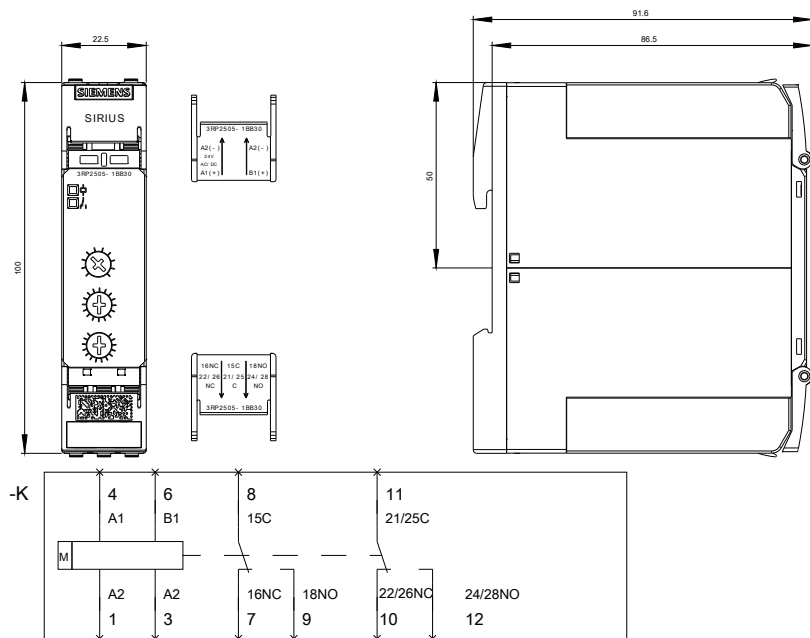
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP25051BB30>

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

<http://support.automation.siemens.com/WW/view/en/3RP25051BB30/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RP25051BB30&lang=en>



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