

TIME RELAY, MULTI-FUNCTION, 2 CO CONTACTS, 27 FUNCTIONS, 15 TIME SETTING RANGE(1,3,10, 30, 100) (S, MIN, HR), AC/DC 12... 240V, AT AC 50/60HZ, LED, SCREW TERMINAL



Figure similar

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	%	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
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
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:

Switching function

- ON-delay
- ON-delay/instantaneous contact
- passing make contact
- passing make contact/instantaneous contact
- OFF delay
- flashing asymmetrically starting with interval
- flashing asymmetrically starting with pulse
- flashing symmetrically starting with pulse
- flashing symmetrically starting with pulse/instantaneous
- flashing symmetrically starting with interval

Yes
Yes
Yes
Yes
Yes
No
No
Yes
Yes
Yes

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

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 1		
<ul style="list-style-type: none"> at AC <ul style="list-style-type: none"> — at 50 Hz — at 60 Hz at DC 	V	12 ... 240
	V	12 ... 240
	V	12 ... 240
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 auxiliary contacts		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
Material of switching contacts		AgSnO ₂
Operating current of 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 A A A A	3 3 1 0.2 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
Switching capacity current with inductive load	A	0.01 ... 3
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 		2 0

Installation/ mounting/ dimensions:






Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	100
Depth	mm	90
Required spacing with side-by-side mounting		
<ul style="list-style-type: none"> • upwards • forwards • at the side • Backwards • downwards 	mm mm mm mm mm	0 0 0 0 0
Required spacing for grounded parts		
<ul style="list-style-type: none"> • Backwards • at the side • upwards • forwards 	mm mm mm mm	0 0 0 0

• downwards	mm	0
Required spacing for live parts		
• downwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• forwards	mm	0
• upwards	mm	0

Connections/ Terminals:

Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-sections		1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²) 1x (0.5 ... 4 mm ²), 2x (0.5 ... 1.5 mm ²) 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
 CCC	 UL	 EG-Konf.
 CSA		 EAC
		Umweltbestätigung

Railway

[Bestätigungen](#)

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

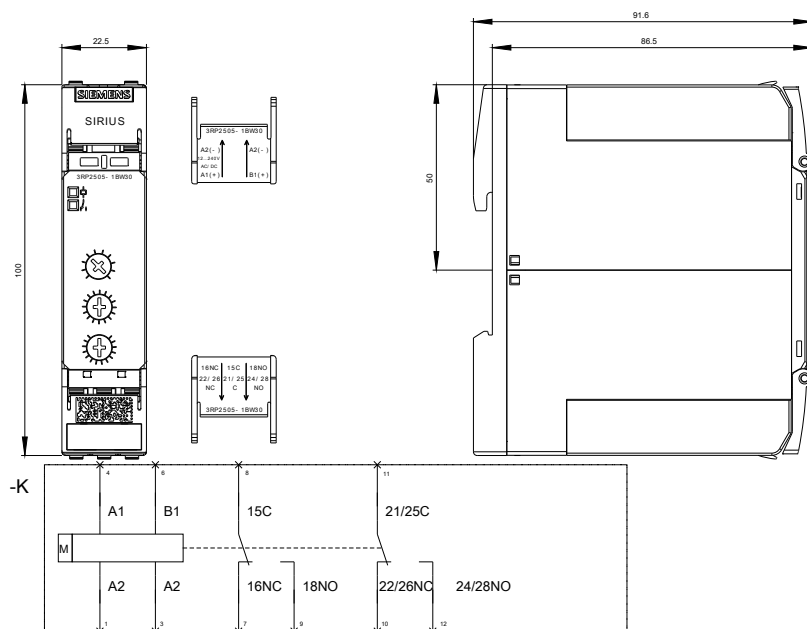
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP25051BW30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP25051BW30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP25051BW30&lang=en



last modified:

08.12.2015