SIEMENS

Electronic timer

Type 3RP

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Answers for industry.

Introduction

Siemens offers 3RP15 electronic timers which meet the various control timing requirements of industry. These timers comply with
IEC 60 947-5-1
IEC 61 000-6-2/EN 50 081-1 (EMC)
Carry CE marking

Range

ON delay: **Control supply voltage options -**
Discrete voltages
Universal voltage of 24 to 240V ac/dc

Time ranges - 0.5 -10 sec, 5 - 100 sec
Universal time range of 0.05 sec to 100Hr

OFF delay: **Control supply voltage options -**
Discrete voltages

Time ranges - 0.5 - 10 sec, 5 - 100 sec

Star Delta: **Control supply voltage options -**
Discrete voltages
Universal voltages of 200 - 240V ac/dc,
380 - 440Vac/dc and 230 - 400V ac/dc

Time ranges - 1- 20 Sec, 3 - 60 Sec with 50 msec changeover delay

Multifunction: 1 timer 8 functions (ON delay, OFF delay, ON+OFF delay, Cyclic, Make Contact, Break contact, Pulse shaping, Additive ON delay)

Control supply voltage options -
Universal voltage of 24 - 240V ac/dc

Time ranges - Universal time range - 0.05 sec to 100Hrs

Application

3RP15 electronic timers can be used for all delayed switching applications in control, starting and protection circuits. They are ideal for use in application like machine tools, material handling, process control and motor control.

With multifunction timer, you can configure the same timer as per your application need. Thus one timer is suited for many applications (refer timing diagram)

Benefits

- **Reduction in inventory** cost (upto 80%) due to universal time and universal voltage ON delay timers.
- **High accuracy** (<±1% repeat accuracy & <±5% setting accuracy) and switching reliability.
- **High mechanical endurance** of 30x10^6 operations ensures trouble free operation
- **Integral surge suppression** – No voltage surges during switching makes them ideal for use with electronic circuits
- Clear visual **status indication** through 2 separate LEDs both for actuation of control supply and the change over status.
- High level of Electromagnetic compatibility (EMC) i.e. maximum immunity to interferences.
- **No more failures** of contactors in Star Delta starting during changeover
- **Sleek 22.5mm wide** housing and compact design saves panel space.

Thus 3RP timers ensure unmatched reliability and offer excellent 'Value for Money'

Note

- Changing the time setting ranges and the functions will only be effective when carried out in de-energised (OFF) state.
- Start input B1 or B3 must only be triggered when the supply voltage is applied.
- OFF delay timers are with aux. voltage (refer wiring diagram fig.1). Same potential must be applied to A1 and B1, or A3 and B3.
- With the two-voltage version, only one voltage range must be connected.
- The activation of loads parallel to the start input is not permissible when using AC control voltage (see diagram below).

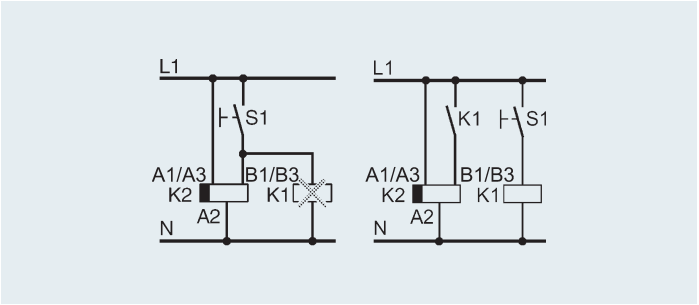
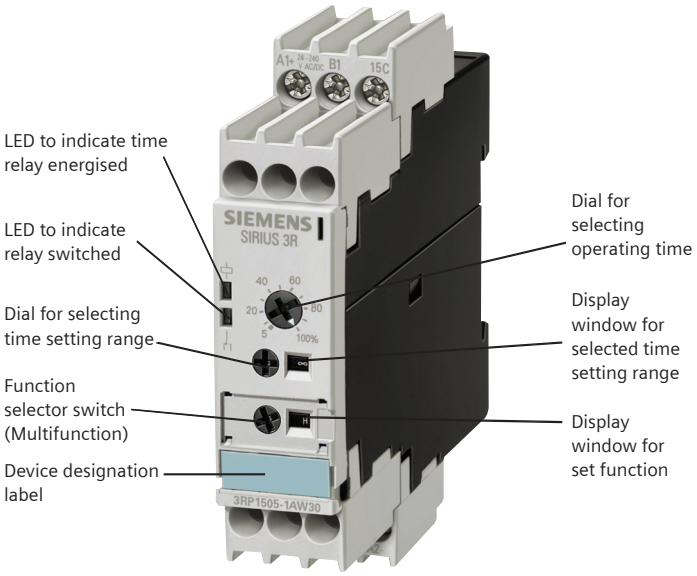


Fig.1

Mounting

3RP electronic timers are suitable for snap mounting onto 35 mm standard DIN rails. Accessory for mounting 3RP timers on base plate is available and can be ordered separately.

Layout

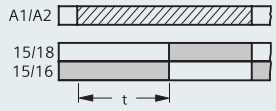


Technical data

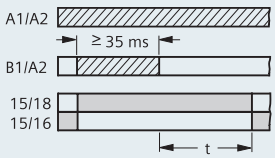
Type			3RP15 05 3RP15 31 3RP15 33	3RP15 11 3RP15 13 3RP15 25	3RP15 74/76
Rated insulation voltage (Pollution degree 3) Overvoltage category III acc. to DIN VDE 0110		V AC	300		
Permissible ambient temperature	during operation during storage	°C °C	-25 to +60 -40 to +80		
Mechanical endurance		operating cycles	30 x 10^6		
Rated operational currents Ie AC-15 at 230 V AC, 50 Hz DC-13 at 24 V DC-13 at 24 V DC-13 at 24 V		 A A A A	 3 1 0.2 0.1		
Control voltage tolerance		V Hz	0.85 - 1.1 x U_s for AC 50/60Hz; 0.8 - 1.25 x U_s for 24VDC 0.95 to 1.05 x rated frequency		
Operating frequency at rated current Ie, 230 V AC		1/h	2500		
Setting accuracy referred to upper limit of scale **Repeat accuracy**			< ±5% < ±1%		
Recovery time Minimum ON period		ms ms	150 35	- -	150 -
Degree of protection	cover terminals		IP 40 IP 20		
Rated power Power consumption at 230 V AC, 50 Hz		W VA	2 6		
Rated control fuse - Utilization category gL/gG		A	4		
Permissible mounting position			any		
Conductor cross-sections – main / auxiliary conductors	solid finely stranded with end sleeve solid or stranded AWG conductors terminal screw tightening torque	 mm^2 mm^2 AWG Nm	 1x(0.5-4), 2x(0.5-2.5) 1x(0.5-2.5), 2x(0.5-1.5) 2x(20-14) M3 0.8 to 1.2		

Timing Diagrams

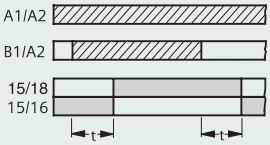
time relay energized
contact closed
contact open



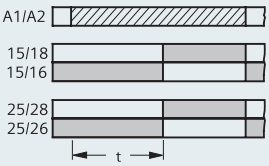
ON-delay



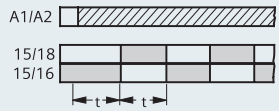
OFF-delay
With auxiliary voltage



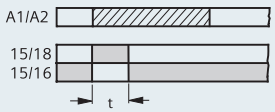
ON + OFF delay
($t = t_{ON} = t_{OFF}$)



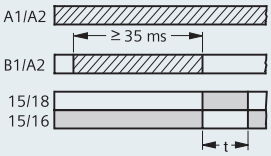
ON delay with 2 C/O contacts



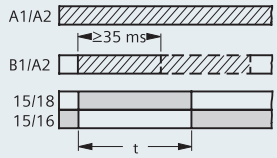
Flashing (Cyclic)
(Pulse interval 1:1)



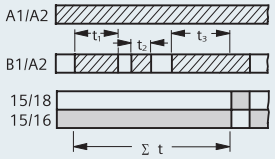
Make Contact



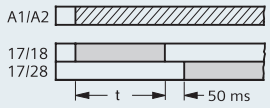
Break contact



Pulse shaping



Additive ON-delay



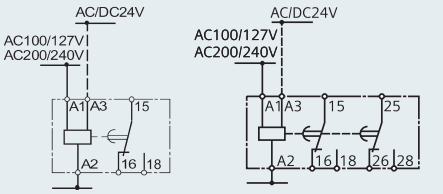
Star delta

Selection and ordering data

Time range	Control Voltage		Auxiliary contacts	Type
	AC (50/60Hz)	DC		
ON Delay timers				
0.5 - 10 sec	24/100-127 24/200-240	24 24	1 C/O 1 C/O	**3RP15 11-1AQ30 8K** **3RP15 11-1AP30 8K**
5 - 100 sec	24/100-127 24/200-240	24 24	1 C/O 1 C/O	**3RP15 13-1AQ30 8K** **3RP15 13-1AP30 8K**
0.05sec to 100Hrs (15 time setting ranges)	24/100-127 24/200-240	24 24	1 C/O 1 C/O	**3RP15 25-1AQ30 8K** **3RP15 25-1AP30 8K**
	24 - 240	24 - 240	2C/O	**3RP15 25-1BW30 8K**
OFF Dealy timers				
0.5 - 10 sec	24/100-127 24/200-240	24 24	1 C/O 1 C/O	**3RP15 31-1AQ30 8K** **3RP15 31-1AP30 8K**
5 - 100 sec	24/100-127 24/200-240	24 24	1 C/O 1 C/O	**3RP15 33-1AQ30 8K** **3RP15 33-1AP30 8K**
Multifunction timer [1]				
0.05sec to 100Hrs (15 time setting ranges)	24 - 240	24 - 240	1 C/O	**3RP15 05-1AW30 8K**
Label set - 8 functions	On delay, Off delay, On+Off delay, flashing, pulse make contact, pulse break contact, pulse shaping and additive ON delay			**3RP19 01-0A 8K**
Star Delta timers				
1 - 20 sec	200-240/380-440V AC		1NO inst. & 1NO delayed	**3RP15 74-1NM20 8K**
3 - 60 sec	24/100-127 24/200-240	24 24	1NO inst. & 1NO delayed	**3RP15 76-1NQ30 8K** **3RP15 76-1NP30 8K**
	200-240/380-440V AC			**3RP15 76-1NM20 8K**
	230-400V AC			**3RP15 76-1NP20 8K**
Accessory				
Push-in lug (for screw mounting on a base plate) for 3RP15				**3RP19 03 8K**

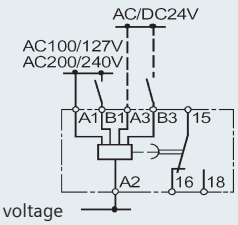
1) Please order label set alongwith multifunction timer (one per timer)

Wiring diagrams



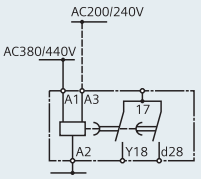
ON-delay

On delay with 2CO contacts



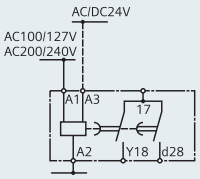
OFF-delay
With auxiliary voltage

3RP15 7.-.M20



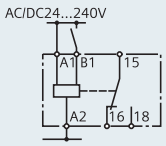
Star-delta timing relay

3RP15 76



Star-delta timing relay

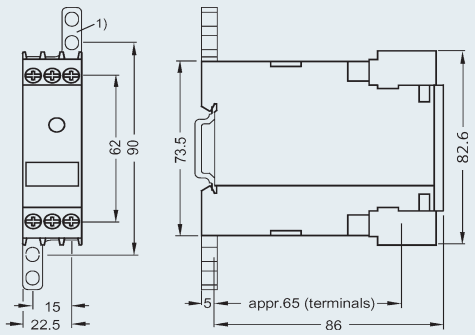
3RP15 05-.AW30



Multifunction relay

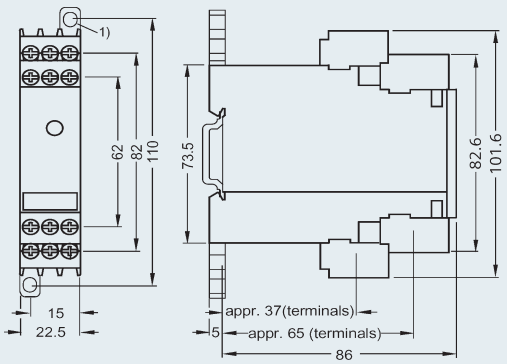
Dimensions

3RP15



1 C/O contact without auxiliary voltage and star delta timer

1) Push-in lug (for screw mounting on a base plate) for 3RP15



1 and 2 C/O contacts, with auxiliary voltage

Siemens Ltd.
Industry Sector
Control Products
R&D Technology Centre
Kalwa Works, Thane Belapur Road, Thane - 400 601
Fax: +91 22 33265627
E-mail: lvsgr-mktg.india@siemens.com

www.siemens.co.in

Order No.: 104846459
I-IA-CECP-005
(This replaces SGR-01-111-014)

Customer Care Toll free no.
1800 220 987 / 1800 209 0987
Email: adscs.india@siemens.com

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Data sheet 3RP15 11-1AP30

TIME RELAY, SOLID-STATE, ON-DELAY, 1 CHANGEOVER CONTACT, 1 TIME RA 0.5S TO 10S, AC 24, 200 TO 240V AND DC 24V, WITH LED, SCREW TERMINAL

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

• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		No
• passing break contact		No
• OFF delay		No
• pulse-shaping		No
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		No
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		No
• retrotriggerable with activated control signal/instantaneous contact		No
• retriggerable with deactivated control signal		No
Control circuit/ Control:		
Adjustable time	s	0.5 ... 10
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		
• at 50 Hz	V	200 ... 240
• at 60 Hz	V	200 ... 240
Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• at DC		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		

• 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
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		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		0
• instantaneous contact		0
Number of CO contacts		
• delayed switching		1
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	83
Depth	mm	91
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	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-section		
• solid		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded		
— with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG conductors		
— stranded		2x (20 ... 14)
— solid		2x (20 ... 14)
Tightening torque	N·m	0.8 ... 1.2

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
CCC	CSA		UL	EG-Konf.	spezielle Prüfbescheinigungen

Shipping Approval					
BUREAU VERITAS	DNV	GL	LRS	PRS	RINA

Shipping Approval	other		
RMRS	Bestätigungen	sonstig	Umweltbestätigung

Further information

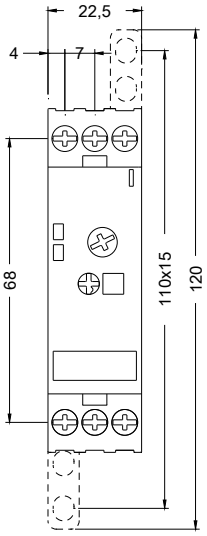
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

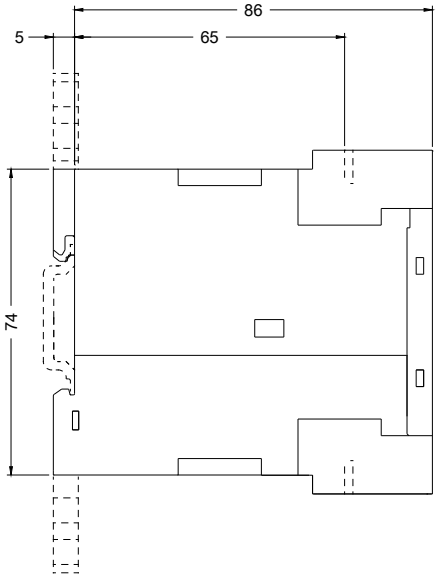
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP15111AP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RP15111AP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP15111AP30&lang=en





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SIEMENS

Data sheet 3RP15 25-1AP30

TIME RELAY, ON-DELAY, 1C, 15 RANGES (1,3,10,30,100) (S,MIN,H) AC 24,200...240 V AND DC 24 V, WITH LED

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

• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		No
• passing break contact		No
• OFF delay		No
• pulse-shaping		No
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		No
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		No
• retrotriggerable with activated control signal/instantaneous contact		No
• 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		
• at 50 Hz	V	200 ... 240
• at 60 Hz	V	200 ... 240
Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• at DC		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		

• 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
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		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		0
• instantaneous contact		0
Number of CO contacts		
• delayed switching		1
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	83
Depth	mm	91
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	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-section		
• solid		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded		
— with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG conductors		
— stranded		2x (20 ... 14)
— solid		2x (20 ... 14)
Tightening torque	N·m	0.8 ... 1.2

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
CCC	CSA		UL	EG-Konf.	spezielle Prüfbescheinigungen

Shipping Approval					
BUREAU VERITAS	DNV	GL	LRS	PRS	RINA

Shipping Approval	other		
RMRS	Umweltbestätigung	sonstig	Bestätigungen

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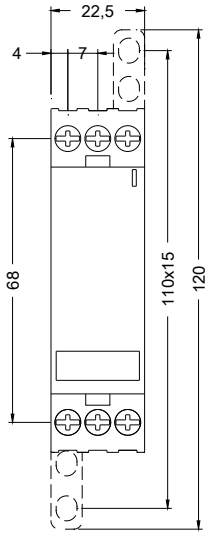

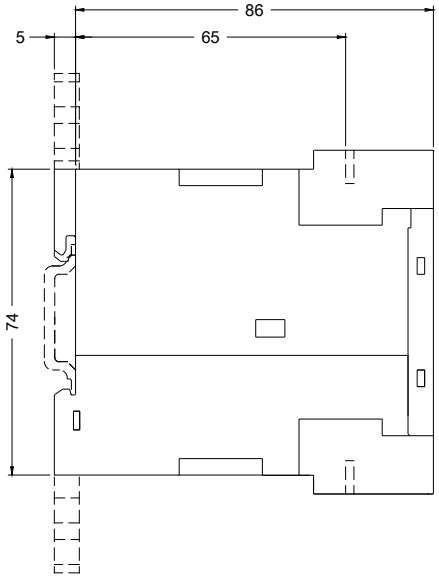

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Data sheet 3RP15 76-1NP30

TIME RELAY, STAR-DELTA SINGLE TIME RANGE 60 S AC 24 V DC 200...240 V 0.7...1.25 US

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		No
• 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		Yes

• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		No
• passing break contact		No
• OFF delay		No
• pulse-shaping		No
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		No
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		No
• retrotriggerable with activated control signal/instantaneous contact		No
• retriggerable with deactivated control signal		No
Control circuit/ Control:		
Adjustable time	s	3 ... 60
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		
• at 50 Hz	V	200 ... 240
• at 60 Hz	V	200 ... 240
Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• at DC		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		

• 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
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		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		1
• instantaneous contact		1
Number of CO contacts		
• delayed switching		0
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	83
Depth	mm	91
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	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-section		
• solid		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded		
— with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG conductors		
— stranded		2x (20 ... 14)
— solid		2x (20 ... 14)
Tightening torque	N·m	0.8 ... 1.2

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
CCC	CSA		UL	EG-Konf.	spezielle Prüfbescheinigungen

Shipping Approval					
BUREAU VERITAS	DNV	GL	LRS	PRS	RINA

Shipping Approval	other		
RMRS	sonstig	Bestätigungen	Umweltbestätigung

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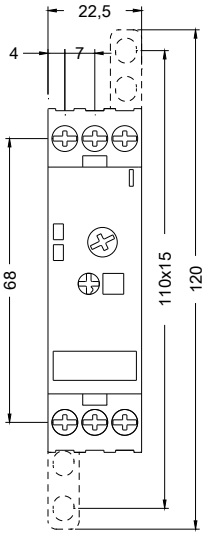

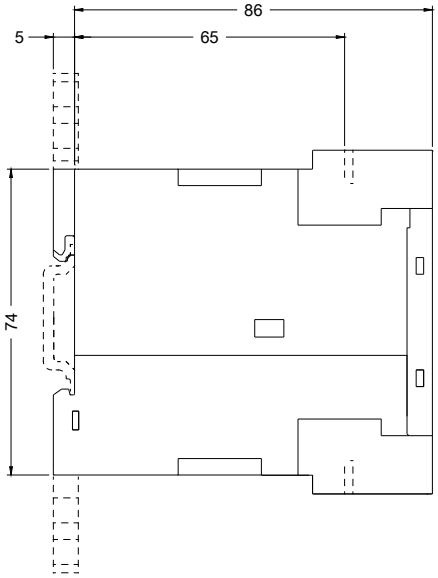

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Data sheet 3RP15 31-1AP30

TIME RELAY, OFF-DELAY W. AUXIL. SW.,1 C, 0.5 S...10 S AC 24,200...240 V AND DC 24 V, WITH LED

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
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		No
• 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

• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		No
• passing break contact		No
• OFF delay		Yes
• pulse-shaping		No
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		No
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		No
• retrotriggerable with activated control signal/instantaneous contact		No
• retriggerable with deactivated control signal		No
Design of the control terminal non-floating		Yes

Control circuit/ Control:		
Adjustable time	s	0.5 ... 10
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		
• at 50 Hz	V	200 ... 240
• at 60 Hz	V	200 ... 240
Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• at DC		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		
• 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
Design of the fuse link for short-circuit protection of the auxiliary switch required		fuse gL/gG: 4 A
Thermal current	A	5
Short-time current resistance (Icw) limited to 10 ms	A	10
Number of NC contacts		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		0
• instantaneous contact		0
Number of CO contacts		
• delayed switching		1
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	102
Depth	mm	91
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	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-section		
• solid		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded		
— with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG conductors		
— stranded		2x (20 ... 14)
— solid		2x (20 ... 14)
Tightening torque	N·m	0.8 ... 1.2

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
CCC	CSA		UL	EG-Konf.	spezielle Prüfbescheinigungen

Shipping Approval					
BUREAU VERITAS	DNV	GL	LRS	PRS	RINA

Shipping Approval	other		
RMRS	sonstig	Bestätigungen	Umweltbestätigung

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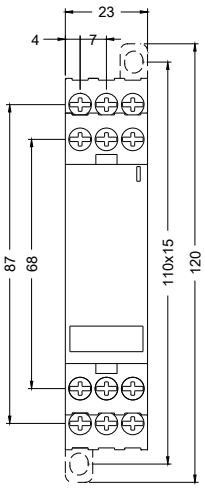

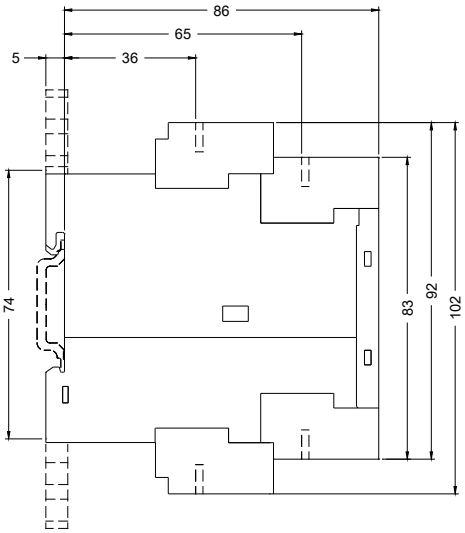

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Data sheet 3RP15 33-1AP30

TIME RELAY, OFF-DELAY WITH AUXILIARY SWITCH,1C, RANGE 5 S...100 S AC 24,200...240 V AND DC 24 V, WITH LED

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
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		No
• 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

• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		No
• passing break contact		No
• OFF delay		Yes
• pulse-shaping		No
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		No
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		No
• retrotriggerable with activated control signal/instantaneous contact		No
• retriggerable with deactivated control signal		No
Design of the control terminal non-floating		Yes

Control circuit/ Control:		
Adjustable time	s	5 ... 100
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		
• at 50 Hz	V	200 ... 240
• at 60 Hz	V	200 ... 240
Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• at DC		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		
• 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
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		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		0
• instantaneous contact		0
Number of CO contacts		
• delayed switching		1
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	102
Depth	mm	91
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	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-section		
• solid		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded		
— with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG conductors		
— stranded		2x (20 ... 14)
— solid		2x (20 ... 14)
Tightening torque	N·m	0.8 ... 1.2

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
CCC	CSA	EAC	UL	EG-Konf.	spezielle Prüfbescheinigungen

Shipping Approval

BUREAU VERITAS	DNV	GL	LRS	PRS	RINA

Shipping Approval	other		
RMRS	sonstig	Umweltbestätigung	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
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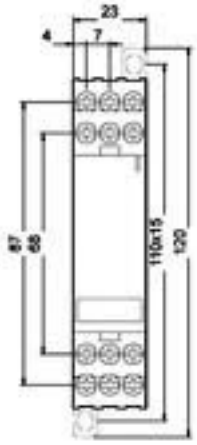

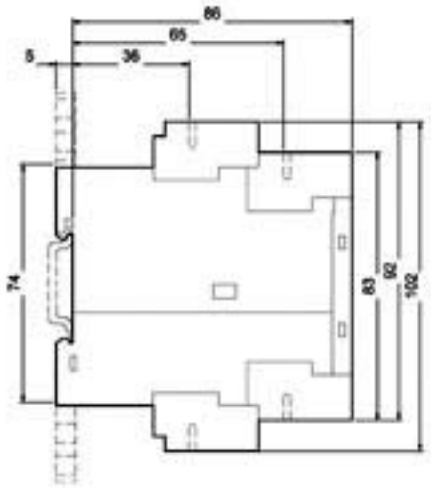

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Data sheet 3RP15 05-1AW30

TIME RELAY, MULTI-FUNCTION 1 CHANGEOVER, 8 FUNCTIONS, 15 TIME SETTING RANGES AC/DC 24... 240 V, WITH LED, SCREW CONNECTION

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
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		Yes
• ON-delay/instantaneous contact		No
• passing make contact		Yes
• 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		Yes
• flashing symmetrically starting with interval/instantaneous		No
• star-delta circuit		No

• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		Yes
• passing break contact		Yes
• OFF delay		Yes
• pulse-shaping		Yes
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		Yes
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		No
• retrotriggerable with activated control signal/instantaneous contact		No
• retriggerable with deactivated control signal		No
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		
• at AC		
— at 50 Hz	V	24 ... 240
— at 60 Hz	V	24 ... 240
• at DC	V	24 ... 240
Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.8 ... 1.1
— at 60 Hz		0.8 ... 1.1
• at DC		0.7 ... 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		
• 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
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		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		0
• instantaneous contact		0
Number of CO contacts		
• delayed switching		1
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	102
Depth	mm	91
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	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

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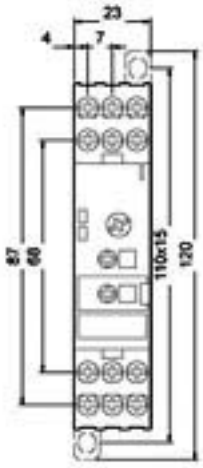

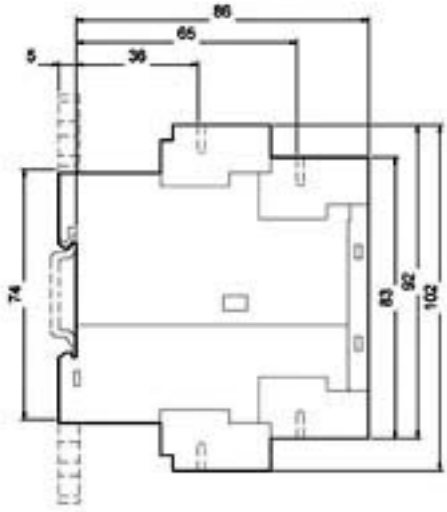

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