SIEMENS

3RP2535-1AW30 **Data sheet**



Timing relay, OFF delay with control signal 1 change-over contact, 15 time ranges 0.05 s...100 h 12-240 V DC, Wide voltage range at 50/60 Hz AC with LED, Screw terminal

product brand name product designation design of the product product type designation

timing relay

OFF delay with control signal

Yes

No

No

Nο

2 W

300 V

2.5 kV

3 4 000 V

General technical data

product	component	
DIOUUCL	COIIIDOIIGIIL	

· relay output

• semi-conductor output

product extension required remote control

product extension optional remote control

power loss [W] maximum

insulation voltage for overvoltage category III according to

IEC 60664 with degree of pollution 3 rated value

test voltage for isolation test

degree of pollution

surge voltage resistance rated value

protection class IP

shock resistance according to IEC 60068-2-27

vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical

electrical endurance (operating cycles) at AC-15 at

230 V typical

adjustable time

relative setting accuracy relating to full-scale value

thermal current minimum ON period recovery time

reference code according to IEC 81346-2

relative repeat accuracy

influence of the surrounding temperature

power supply influence **Substance Prohibitance (Date)** SIRIUS

IP20 11g / 15 ms 10 ... 55 Hz / 0.35 mm 10 000 000 100 000 0.05 s ... 100 h 5 %; +/-5 A 35 ms 250 ms

> 1% in the whole temperature range to the set runtime 1% in the whole voltage range to the set runtime

09/12/2014

1 %; +/-

Control circuit/ Control

type of voltage of the control supply voltage

control supply voltage 1 at AC • at 50 Hz

• at 60 Hz

control supply voltage frequency 1

control supply voltage 1

• at DC

operating range factor control supply voltage rated value at DC

AC/DC

12 ... 240 V 12 ... 240 V

50 ... 60 Hz

12 ... 240 V

initial value	0.8
 full-scale value 	1.1
operating range factor control supply voltage rated	
value at AC at 50 Hz	
initial value	0.85
• full-scale value	1.1
	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
 full-scale value 	1.1
inrush current peak	
• at 24 V	0.4 A
• at 240 V	5 A
duration of inrush current peak	
• at 24 V	0.3 ms
• at 240 V	0.5 ms
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
•	TYO
switching function	N
 flashing symmetrically with interval start/instantaneous 	No
flashing symmetrically with interval start	No
 flashing symmetrically with pulse start/instantaneous 	No
	Ma
flashing symmetrically with pulse start	No
 flashing asymmetrically with interval start 	No
 flashing asymmetrically with pulse start 	No
switching function	
 star-delta circuit with delay time 	No
star-delta circuit	No
switching function with control signal	
additive ON-delay	No
·	
 passing break contact 	No
 passing break contact/instantaneous 	No
OFF delay	Yes
 OFF delay/instantaneous 	No
 pulse delayed 	No
 pulse delayed/instantaneous 	No
pulse-shaping	No
pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
 ON-delay/OFF-delay/instantaneous 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
 retrotriggerable with deactivated control 	No
signal/instantaneous contact	
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	1.0
retriggerable with deactivated control signal	No
design of the control terminal non-floating	Yes
Short-circuit protection	() () ()
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
number of NC contacts • delayed switching	0

to the standard and the standard standa	
instantaneous contact	0
number of NO contacts	
delayed switching	0
instantaneous contact	0
number of CO contacts	
delayed switching	1
• instantaneous contact	0
operational current of auxiliary contacts at AC-15	2.4
at 24 V at 250 V	3 A 3 A
operational current of auxiliary contacts at DC-13	3 A
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17
	V, 5 mA)
contact rating of auxiliary contacts according to UL	R300 / B300
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
at the relay outputs switchover delayed/without	No
delay	No
• non-volatile	No
Electromagnetic compatibility	pushiones A (industrial post)
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1 conducted interference	corresponds to degree of severity 3
	2 kV network connection / 1 kV control connection
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 	2 kV
61000-4-5	L IV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front according to IEC	IP20
60529	
	Rasic insulation
type of insulation	Basic insulation
type of insulation category according to EN 954-1	Basic insulation none
type of insulation category according to EN 954-1 Connections/ Terminals	none
type of insulation category according to EN 954-1	
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	none
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	Yes
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	Yes
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	Yes screw-type terminals
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid	none Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded	none Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
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type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section	yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm²
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type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded	Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid	Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 14
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw	Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 14 0.6 0.8 N·m
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type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position	Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 14 0.6 0.8 N·m M3
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method	Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 14 0.6 0.8 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method height	Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 14 0.6 0.8 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 100 mm

required spacing • with side-by-side mounting — forwards 0 mm backwards 0 mm - upwards 0 mm - downwards 0 mm- at the side 0 mm · for grounded parts - forwards 0 mm - backwards 0 mm - upwards 0 mm 0 mm - at the side — downwards 0 mm • for live parts - forwards 0 mm - backwards 0 mm — upwards 0 mm

Ambient conditions

- downwards

- at the side

installation altitude at height above sea level maximum

ambient temperature

• during operation
• during storage
• during transport

relative humidity during operation

2 000 m

2 000 m

-25 ... +60 °C

-40 ... +85 °C

10 ... +85 °C

0 mm

0 mm

Certificates/ approvals

General Product Approval

EMC



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







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?mlfb=3RP2535-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2535-1AW30

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

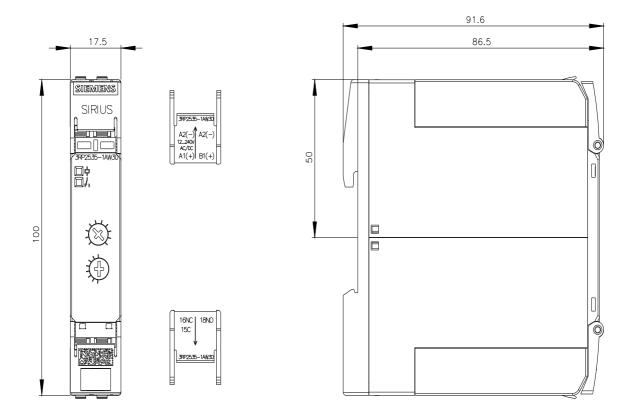
https://support.industry.siemens.com/cs/ww/en/ps/3RP2535-1AW30

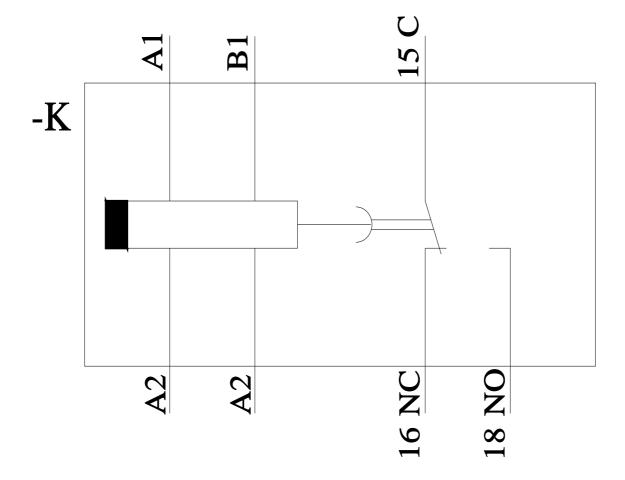
 $Image\ database\ (product\ images, 2D\ dimension\ drawings, 3D\ models, device\ circuit\ diagrams,\ EPLAN\ macros, ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2535-1AW30\&lang=en}}$

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2535-1AW30/manual





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