## **SIEMENS**

Data sheet 3RP2505-1AW30



Timing relay, Multifunction 1 change-over contact, 13 functions 7 time ranges (0.05 s...100 h) 12...240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

product brand name	SIRIUS	
product designation	timing relay	
design of the product	13 functions	
product type designation	3RP25	
General technical data		
product component		
<ul><li>relay output</li></ul>	Yes	
• semi-conductor output	No	
product extension required remote control	No	
product extension optional remote control	No	
power loss [W] maximum	2 W	
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V	
test voltage for isolation test	2.5 kV	
degree of pollution	3	
surge voltage resistance rated value	4 000 V	
shock resistance according to IEC 60068-2-27	11g / 15 ms	
vibration resistance according to IEC 60068-2-6	10 55 Hz / 0.35 mm	
mechanical service life (operating cycles) typical	10 000 000	
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000	
adjustable time	0.05 s 100 h	
relative setting accuracy relating to full-scale value	5 %; +/-	
thermal current	5 A	
minimum ON period	35 ms	
recovery time	250 ms	
reference code according to IEC 81346-2	K	
relative repeat accuracy	1 %; +/-	
influence of the surrounding temperature	1% in the whole temperature range to the set runtime	
power supply influence	1% in the whole voltage range to the set runtime	
Substance Prohibitance (Date)	09/12/2014	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1	
Weight	0.14 kg	
Control circuit/ Control		
type of voltage of the control supply voltage	AC/DC	
control supply voltage 1 at AC		
• at 50 Hz	12 240 V	
● at 60 Hz	12 240 V	
control supply voltage frequency 1	50 60 Hz	

operating range factor control supply voltage rated value at CC  initial volue  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca t 50 ft 2  initial volue  operating range factor control supply voltage rated value at Ca 1  initial volue  initial volue  operating range factor control supply voltage rated value at Ca 1  initial volue  operating range factor control supply voltage rated value at Ca 2  operating range factor control supply voltage rated value at Ca 2  ves  operating range factor control supply voltage rated value at Ca 2  ves  operating range factor control supply voltage rated value at Ca 2  ves  operating range factor control supply ves  operating range factor control vesion control supply ves  operating range factor control vesion control	control supply voltage 1 at DC	12 240 V
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inrush current peak  • at 24 V • at 240 V 5 A  duration of Inrush current peak • at 24 V • at 240 V 0.3 ms  • at 240 V 0.5 ms  Switching Function  Switching function • ONI-delay instantaneous contact • passing make contact/instantaneous contact • OFF delay  switching function • Insthing symmetrically with interval start/instantaneous • Insthing symmetrically with interval start/instantaneous • Insthing symmetrically with interval start/instantaneous • Insthing symmetrically with interval start instantaneous • Insthing symmetrically with interval start • Insthing asymmetrically with interval start • Insthing asymmetrically with pulse start • No  switching function • star-delta circuit with delay time • star-delta circuit • No  switching function with control signal • additive ON-delay • passing break contact • passing break contact • passing break contact • pulse-chapping instantaneous • OFF delay • Ves • pulse-chapping ves • retoringgerable with deactivated control signal • retoringgerable with deactivated control signal • retoringgerable with deactivated control signal • retoringgerable with seactivated control signal • retoringgerable		
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• at 240 V duration of incus current peak • at 240 V  Switching Function  ***Switching function • ON-delay finatantaneous contact • passing make contact • passing symmetrically with interval start/instantaneous • Realing symmetrically with interval start • Realing symmetrically with pulse start • Realing symmetrically with interval start • Realing asymmetrically with pulse start • Realing asymmetrically with control signal • Passing break contactinistantaneous • Realing asymmetrically with control signal • Passing break contactinistantaneous contact • Realing asymmetrically with starters • Realing asymmetrically with pulse starters • Realing asymmetri	-	0.4.4
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flashing asymmetrically with interval start   No		
• flashing asymmetrically with pulse start  switching function  • star-delta circuit with delay time  • star-delta circuit  No  switching function with control signal  • additive ON-delay  • passing break contact  • passing break contact/instantaneous  • OFF delay  • OFF delay  • OFF delay  • pulse delayed  • pulse delayed  • pulse delayed/instantaneous  • pulse-shaping  • pulse-shaping  • pulse-shaping/instantaneous  • ON-delay/OFF-delay/instantaneous  • ON-delay/OFF-delay/instantaneous  • on-delay/OFF-delay/instantaneous  • on-delay/OFF-delay/instantaneous  • on-delay/OFF-delay/instantaneous  • restorting-grable with deactivated control signal  • retrotring-grable with deactivated control signal  • retrotring-grable with switched-on control signal  • retrotring-grable with deactivated control signal  • retrotring-grable with switched-on control signal		
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switching function with control signal  additive ON-delay  passing break contact  passing break contact/instantaneous  OFF delay  OFF delay  OFF delay  Yes  oulse delayed  pulse delayed  pulse-shaping  pulse-shaping/instantaneous  No  ON-delay/OFF-delay/instantaneous  No  oulse-shaping/instantaneous  No  outer	•	
<ul> <li>additive ON-delay</li> <li>passing break contact</li> <li>passing break contact/instantaneous</li> <li>OFF delay</li> <li>OFF delay</li> <li>OFF delay/instantaneous</li> <li>No</li> <li>pulse delayed</li> <li>Yes</li> <li>pulse delayed/instantaneous</li> <li>No</li> <li>pulse-shaping</li> <li>yes</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>additive ON-delay/instantaneous</li> <li>No</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>no</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with for short-circuit protection</li> <li>design of the control terminal non-floating</li> <li>Tyes</li> </ul>		NO .
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OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact passing function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with switched-on control retrotriggerable wit	. •	
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<ul> <li>pulse delayed/instantaneous</li> <li>pulse-shaping</li> <li>yes</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>additive ON-delay/instantaneous</li> <li>No</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>No</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control</li> <li>signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>Yes</li> <li>design of the control terminal non-floating</li> <li>Yes</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul>	•	
pulse-shaping     pulse-shaping/instantaneous     pulse-shaping/instantaneous     additive ON-delay/instantaneous     ON-delay/OFF-delay/instantaneous     passing make contact     passing make contact/instantaneous contact     passing make contact/instantaneous contact     vertoring function of interval relay with control signal     retrotriggerable with deactivated control signal/instantaneous contact     retrotriggerable with switched-on control signal     retrotriggerable with switched-on control signal     retrotriggerable with switched-on control signal     retrotriggerable with deactivated control signal     retrotriggerable with for short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required		
pulse-shaping/instantaneous     additive ON-delay/instantaneous     ON-delay/OFF-delay/instantaneous     ON-delay/OFF-delay/instantaneous     passing make contact     passing make contact/instantaneous contact     passing make contact/instantaneous contact     passing make contact/instantaneous contact     vertorting function of interval relay with control signal     retrotriggerable with deactivated control signal     retrotriggerable with switched-on control signal     retrotriggerable with switched-on control signal     retrotriggerable with switched-on control signal     retriggerable with deactivated control signal     retrotriggerable with switched-on c		
additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with switched-on control signal/instantaneous contact retriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous retrotriggerable wit		
ON-delay/OFF-delay/instantaneous  passing make contact  passing make contact/instantaneous contact  No  switching function of interval relay with control signal  retrotriggerable with deactivated control signal/instantaneous contact  retrotriggerable with switched-on control signal  retrotriggerable with switched-on control signal  retrotriggerable with switched-on control signal/instantaneous contact  retriggerable with deactivated control signal  retriggerable with deactivated control signal  Yes  design of the control terminal non-floating  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  fuse gL/gG: 4 A		
<ul> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>passing make contact/instantaneous contact</li> <li>passing make contact/instantaneous contact</li> <li>retrotriggerable with deactivated control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with for short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul>	•	
<ul> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>Yes</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul>		
switching function of interval relay with control signal  • retrotriggerable with deactivated control signal / No signal/instantaneous contact  • retrotriggerable with switched-on control signal / Yes  • retrotriggerable with switched-on control signal / No signal/instantaneous contact  • retriggerable with deactivated control signal / Yes  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		
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>Yes</li> <li>design of the control terminal non-floating</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul>		
signal/instantaneous contact  • retrotriggerable with switched-on control signal  • retrotriggerable with switched-on control signal/instantaneous contact  • retriggerable with deactivated control signal  • retriggerable with deactivated control signal  Yes  design of the control terminal non-floating  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  fuse gL/gG: 4 A		No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>Yes</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>fuse gL/gG: 4 A</li> </ul>		
signal/instantaneous contact  • retriggerable with deactivated control signal Yes  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	<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	Yes
● retriggerable with deactivated control signal  design of the control terminal non-floating  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  fuse gL/gG: 4 A		No
design of the control terminal non-floating  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  fuse gL/gG: 4 A	-	Yes
Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  fuse gL/gG: 4 A		
design of the fuse link for short-circuit protection of the auxiliary switch required fuse gL/gG: 4 A		
switch required		fuse gL/gG: 4 A
A 111 1 1/2	switch required	
Auxiliary circuit	Auxiliary circuit	

material of authoring acceptants	Agen02
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0
instantaneous contact	0
number of NO contacts	
<ul> <li>delayed switching</li> </ul>	0
instantaneous contact	0
number of CO contacts	
<ul><li>delayed switching</li></ul>	1
instantaneous contact	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
● 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 delay	No
• non-volatile	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3
conducted interference	control to dogree or continty o
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
<ul> <li>due to burst according to IEC 01000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	1 10
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	
category according to EN 954-1	none
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	Section type terminals
solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
	1x (0.5 4.0 fillit-), 2x (0.5 2.5 fillit-)  1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> </ul>	
for AWG cables solid     for AWG cables stranded	1x (20 12), 2x (20 14)
	1x (20 12), 2x (20 14)
connectable conductor cross-section	0.5 4 mm²
Solid     finely stranded with core and processing	0.5 4 mm² 0.5 4 mm²
• finely stranded with core end processing  AWG number as coded connectable conductor cross	0.0 <del>4</del> [[[[[
section	
• solid	20 12
• stranded	20 14
tightening torque	0.6 0.8 N·m
design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail

height	100 mm	
width	17.5 mm	
depth	90 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	
<ul> <li>for grounded parts</li> </ul>		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— at the side	0 mm	
— downwards	0 mm	
• for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-25 +60 °C	
during storage	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity during operation	10 95 %	
Approvals Certificates		
General Product Approval		EMV













EMV	Toot Cortificates	Marina / Chinnina
FINIA	Test Certificates	Marine / Shipping

<u>KC</u>

Special Test Certificate

Type Test Certificates/Test Report







## Marine / Shipping other Railway Environment







Confirmation

Confirmation

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

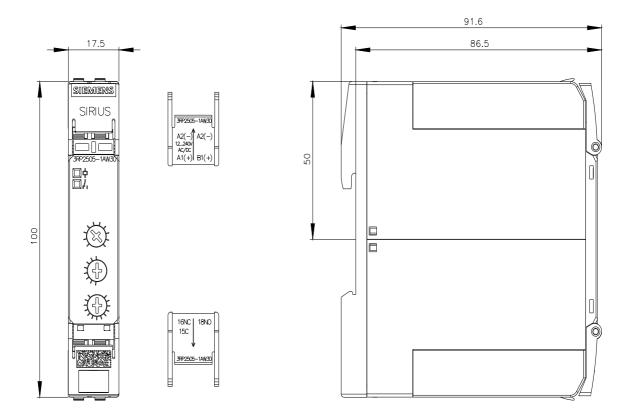
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2505-1AW30

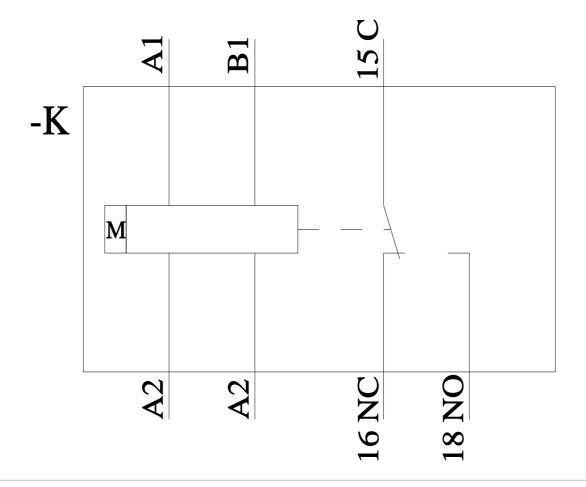
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-1AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-1AW30 Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-1AW30/manual





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