3RP2505-2RW30-0AX0

Data sheet



Timing relay, Multifunction with painted PCB 2 change-over contacts, 13 functions Positively driven Relay contacts 24...240 V AC/DC at 50/60 Hz AC 7 time ranges (0.05 s...100 h) with LED Spring-type terminal (push-in)

product brand name	SIRIUS		
product designation	timing relay		
design of the product	13 functions, suitable for railway applications		
product type designation	3RP25		
General technical data			
product feature protective coating on printed-circuit board	Yes; acc. to IPC-A-610		
product component			
 relay output 	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		
protection class IP	IP20		
shock resistance according to IEC 60068-2-27	11g / 15 ms		
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)	04/21/2016		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5		
Control circuit/ Control			
type of voltage of the control supply voltage	AC/DC		
control supply voltage 1 at AC			
• at 50 Hz	24 240 V		
• at 60 Hz	24 240 V		
control supply voltage frequency 1	50 60 Hz		

e at DC operating range factor control supply voltage rated value at DC initial value 0.7		
elimit value 0.7 • Initial value 0.7 •	control supply voltage 1	24 240 V
initial value 0.7 initial valu		24 240 V
minital value 0.7		
• full-cale value • initial value • at 24 V • at 240 V • at 240 V • o.5 A • at 24 V • o.5 me • o.1240 V • o.5 me • o.1240 V • o.5 me • o.1240 V • o.		0.7
AG at 50 Hz Initial value Initial	full-scale value	
AG at 50 Hz Initial value Initial	operating range factor control supply voltage rated value at	
e full-scale value or range factor control supply voltage rated value at AC at 40 ftz intrial value intrial value intrial value intrial value at 24 V at 240 V 5 A duration of inrush current peak at 24 V at 240 V 5 A current peak at 24 V 6 A ms at 240 V 5 A current peak because the value of		
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AC at 60 Hz full-scale value	full-scale value	1.1
• full-scale value		
at 24 V 0.5 A	initial value	0.7
et 24 V 5 A	full-scale value	1.1
* at 240 V duration of Inrush current peak * at 24 V * at 240 V switching Function ***ON-delay function ON-delay Seasing make contact * passing make contact * passing make contact or seasing symmetrically with interval start/instantaneous **flashing symmetrically with pulse start/instantaneous **flashing symmetrically with pulse start or seasing symmetrically with control signal or seasing spreak contact or seasing spreak spreak or seasing spreak spreak or seasing spreak spreak or seasing spreak spreak or seasing spreak spr	•	
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at 24 V		5 A
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switching function ON-delay / Yes ON-delay/instantaneous contact passing make contact passing make contact / Yes OFF delay switching function flashing symmetrically with interval start/instantaneous flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start / Yes flashing asymmetrically with pulse start / Yes star-delta circult / Yes passing function with control signal / Yes pulse delayed pulse delayed pulse delayed pulse delayed / Yes pulse delayed / Yes pulse delayed / Yes pulse shaping / Yes pu		0.5 ms
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• flashing symmetrically with interval start / Yes • flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start / Yes • flashing symmetrically with pulse start / Yes • flashing asymmetrically with pulse start / No • start-delta circuit with delay time / Start-delta circuit with delay time / Start-delta circuit with delay time / Start-delta circuit / No • switching function with control signal / Start-delta circuit / Yes • passing break contact / Yes • passing break contact / Yes • passing break contact/instantaneous / No • OFF delay / Yes • pulse delayed / Yes • pulse delayed/instantaneous / No • pulse-shaping / Yes • pulse-shaping / Yes • pulse-shaping / Yes • passing make contact / No • retrotriggerable with deactivated control signal / Yes • retrotriggerable with switched-on control signal / Yes • retrotriggerable with switched-on control signal / Yes design of the control terminal non-floating / Yes design of the control terminal non-floating / Yes design of the control terminal non-floating / Yes flore-circuit protection	OFF delay	No
• flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start • flashing asymmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start • flashing asymmetrically with pulse start No switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • additive ON-delay • passing break contact Yes • passing break contact/instantaneous • OFF delay • OFF delay • pulse delayed/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • oNo • ONo-delay/OFF-delay/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • pulse-shaping Yes • passing make contact • passing make contact • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriguerable with switched-on control signal • retrotriguerable with switched-on control signal • retrotri	switching function	
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• flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start • flashing asymmetrically with pulse start No • star-delta circuit with delay time • star-delta circuit • switching function with control signal • additive ON-delay • passing break contact • passing break contact • passing break contact • passing break contact Yes • passing break contact • passing break contact Yes • pulse delayed • OFF delay • OFF delay • pulse delayed • pulse delayed • pulse delayed/instantaneous • pulse-shaping Yes • pulse-shaping Yes • pulse-shaping/instantaneous • ol-OH-delay/OFF-delay/instantaneous • ol-OH-delay/OFF-delay/instantaneous • passing make contact • passing make contact • passing make contact • retroinggerable with deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control • retriggerable with deactivated control signal • retrotriggerable with deactivated control • retriggerable with deactivated control signal • retrotriggerable with deactivated control • retriggerable with deactivated control signal • retrotriggerable with switched-on control • retriggerable with switched-on control • retriggerable with for short-circuit protection design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	 flashing symmetrically with interval start 	Yes
• flashing asymmetrically with interval start • flashing asymmetrically with pulse start **No** **Switching function** • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit **No** **switching function with control signal • additive ON-delay • passing break contact • passing break contact() • pulse delayed () • pulse delayed () • pulse delayed () • pulse delayed/instantaneous () • pulse-shaping () • pulse-shaping/instantaneous () • pulse-shaping/instantaneous () • ON-delay/OFF-delay/instantaneous () • ON-delay/OFF-delay/instantaneous () • ON-delay/OFF-delay/instantaneous () • passing make contact () • retrotriggerable with deactivated control signal () • retrotriggerable with switched-on control signal () • retrotriggerable with switched-on control () • retrotriggerable with switched-on control () • retriggerable with switched-on control () • retri	 flashing symmetrically with pulse start/instantaneous 	No
• flashing asymmetrically with pulse start switching function • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay/instantaneous • pulse delayed • pulse delayed • pulse-shaping • pulse-shaping/instantaneous • ON-delay/OFF-delay/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with control terminal non-floating • retrotrigerable with switched-on control signal	 flashing symmetrically with pulse start 	Yes
switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit switching function with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay • pulse delayed/instantaneous • pulse delayed/instantaneous • pulse shaping • pulse-shaping • pulse-shaping/instantaneous • No • ON-delay/iOFF-delay/instantaneous • No • pulse-shaping/instantaneous • No • pulse-shaping/instantaneous • No • pulse-shaping/instantaneous • retroirggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrogerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal	 flashing asymmetrically with interval start 	No
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additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay/instantaneous Pulse delayed Pulse delayed/instantaneous Pulse delayed/instantaneous Pulse-shaping Pulse-shaping Pulse-shaping/instantaneous ANO ON-delay/instantaneous NO ON-delay/OFF-delay/instantaneous NO Dassing make contact Passing make contact Passing make contact/instantaneous contact Passing make c	star-delta circuit	No
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OFF delay OFF delay/instantaneous OFF Description OFF delay/instantaneous OFF Description OFF Descript	passing break contact	Yes
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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 retrotriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal restriggerable with deactivated control signal retriggerable with switched-on control signal/instantaneous retrotriggerable with switched-on control signal/i	pulse-shaping/instantaneous	No
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 passing make contact/instantaneous contact 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 instantaneous contact retriggerable with deactivated control signal retriggerable with switched-on control retrotriggerable with	 ON-delay/OFF-delay/instantaneous 	No
switching 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/instantaneous contact / retriggerable with deactivated control signal / retriggerable with deactivated control signal / results of the control terminal non-floating / results of the control terminal non-floating / results of the fuse link for short-circuit protection of the auxiliary / fuse gL/gG: 4 A	passing make contact	Yes
retrotriggerable with deactivated control 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 design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	 passing make contact/instantaneous contact 	No
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 thort-circuit protection design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	switching function of interval relay with control signal	
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signal/instantaneous contact • retriggerable with deactivated control signal design of the control terminal non-floating thort-circuit protection design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	 retrotriggerable with switched-on 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 fuse gL/gG: 4 A		No
design of the control terminal non-floating Yes thort-circuit protection design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	retriggerable with deactivated control signal	Yes
chort-circuit protection design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A		Yes
design of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A	Short-circuit protection	
	design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 4 A
ownton required	switch required	

Auxiliary circuit			
material of switching contacts	AgNi		
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	2		
• 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			
 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection		
due to conductor-earth surge according to IEC 61000-4-5	2 kV		
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV		
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		
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	spring-loaded terminals (push-in)		
type of connectable conductor cross-sections	, 0 (,,		
• solid	0.5 4 mm²		
finely stranded with core end processing	0.5 2.5 mm ²		
finely stranded without core end processing	0.5 4 mm ²		
• for AWG cables solid	20 12		
• for AWG cables stranded	20 12		
connectable conductor cross-section			
• solid	0.5 4 mm²		
finely stranded with core end processing	0.5 4 mm²		
finely stranded without core end processing	0.5 4 mm²		
AWG number as coded connectable conductor cross section			
• solid	20 12		
• stranded	20 14		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail		
lastering method			

height	100 mm	100 mm			
width	22.5 mm	22.5 mm			
depth	90 mm	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				
 for grounded parts 					
— 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	0 mm			
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
 during operation 	-25 +60 °C	-25 +60 °C			
during storage	-40 +85 °C	-40 +85 °C			
during transport	-40 +85 °C	-40 +85 °C			
relative humidity during operation	10 95 %	10 95 %			
Approvals Certificates					
General Product Approval	EMC	Declaration of Conformity			

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Confirmation

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RP2505-2RW30-0AX0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-2RW30-0AX0

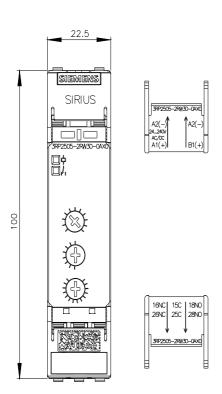
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

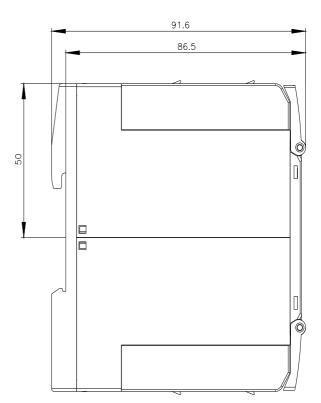
https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2RW30-0AX0

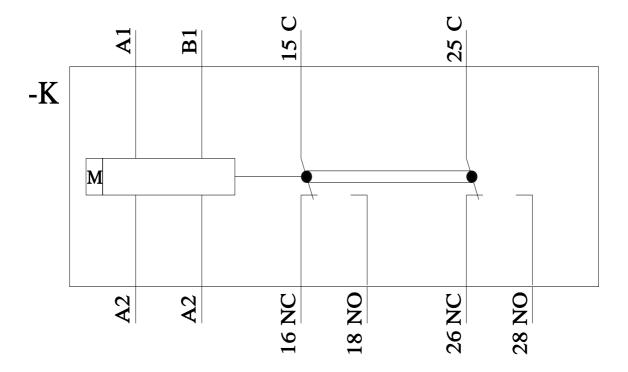
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2505-2RW30-0AX0&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2RW30-0AX0/manual







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