## SIEMENS

## Data sheet

## 3RP2505-2AW30



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 Spring-type terminal (push-in)

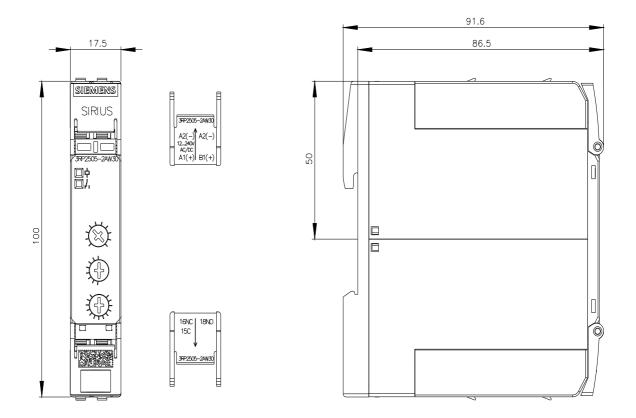
product brand name	SIRIUS			
product designation	timing relay			
design of the product	13 functions			
product type designation	3RP25			
General technical data				
product component				
<ul> <li>relay output</li> </ul>	Yes			
<ul> <li>semi-conductor output</li> </ul>	No			
product extension required 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 acc. to IEC 60068-2-27	11g / 15 ms			
vibration resistance acc. to IEC 60068-2-6	10 55 Hz / 0.35 mm			
mechanical service life (switching cycles) typical	10 000 000			
electrical endurance (switching 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 acc. to IEC 81346-2	К			
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)	12.09.2014			
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			
control supply voltage 1				
• at DC	12 240 V			

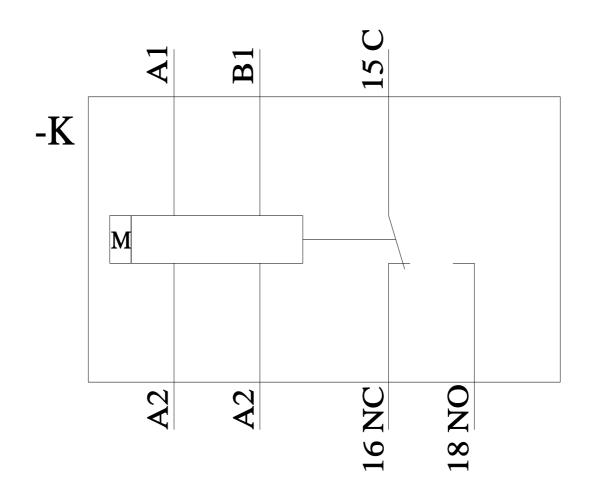
operating range factor control supply voltage rated         0.8           • initial value         0.8           • initial value         0.1           operating range factor control supply voltage rated         1.1           operating range factor control supply voltage rated         0.8           • initial value         0.8           • initial value         0.4           • initial value         0.4           • initial value         0.4           • initial value         0.8           • initial value         0.8           • initial value         0.4           • initial value         0.4           • initial value         0.8           • initial value         0.8           • initial value         0.4           • initial value         0.4           • initial value         0.8           • initial value         0.8           • initial value         0.8           • Off initial value		
• Alfriestic value     0.8       • Alfriestic value     1.1       • operating range factor control supply voltage rated     0.8       • Alfriestic value     0.8       • OPA-delay     Yes       • OPA-delay     Yes       • Alfriestic value	operating range factor control supply voltage rated	
•		0.8
operating range factor control supply voltage rated value at A of 80 Hz.         0.8           • Initial value         0.8           • full-scale value         1.1           operating a regree factor control supply voltage rated value at A of V         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.4           • initial value         0.5           • ON-delay         Yes           • ON delay         Yes           • initial value         No           • initial value		
value A& a 16 9 Hz         0.8           • Initial value         0.8           • Initial value         1.1           • Initial value         0.8           • Initial value         0.8           • Initial value         0.8           • Initial value         0.4 A           • all A Value         0.4 A           • all A Value         0.4 A           • all A Value         0.3 ms           • all A Value         0.3 ms           • all A V         0.5 ms           Switching Function         Value           • ON-delay/instantaneous contact         No           • Switching function         Value           • Iashing symmetrically with interval start         Yes           • Iashing symmetrically with interval start         No           • Iashing symmetrically with pulse start         No           • Iashing symmetrically with pulse start         No           • Iashing symmetrically with outpulse start		
• I.1           operating range factor control supply voltage rated           • Initial value         0.8           • Initial value         0.8           • Initial value         0.1           Intrust current peak         0.4 A           • Initial value         0.5 ms           Switching function         Ves           • Initial value         Ves           • OR-Helpy         Yes           • OFF delay         No           • Initial value         No <td></td> <td></td>		
operating range factor control supply voltage rated when at AC at 69 Hz         0.8           • Initial value         0.8           • Initial value         1.1           • Initial value         1.1           • Initial value         0.4 A           • all 24 V         0.4 A           • all 24 V         0.5 A           duration of Innush current peak         0.3 ms           • all 24 V         0.3 ms           • all 24 V         0.5 ms           Switching Function         Yes           • ONd delay/instantaneous contact         No           • Idashing symmetrically with interval start         Yes           • Idashing symmetrically with interval start         Yes           • Idashing symmetrically with pulse start         No           • Idashing symmetrically with pulse start         No           • Idashing symmetrically with pulse start         No           • Idashing spremetrica	initial value	0.8
value at AC at 60 Hz • Initial value •	• full-scale value	1.1
value at AC at 60 Hz • Initial value •	operating range factor control supply voltage rated	
• bull-scale value         1.1           intush current pask         0.4 A           • at 24 V         0.4 A           • at 24 V         0.3 ms           • at 240 V         0.3 ms           • ONd-delay         Ves           • ONd-delay         Ves           • ONd-delay         Ves           • ONd-delay         Ves           • ONd-delay         No           • ONd-delay         No           • ONd-delay         Ves           • Dessing make contact         No           • ONd-delay         Yes           • abaining symmetricaly with interval start         Yes           • abaining asymmetrically with pulse start         No           • abaining asymmetrically with pulse s		
Inrush current peak     0.4 Å       • al 24 V     5 Å       duration of inrush current peak     0.3 ms       • al 24 V     0.3 ms       • al 24 V     0.5 ms       • alt 24 V     0.5 ms       • OPF cleaky     Yes       • opsing make contact     Yes       • alt 10 symmetrically with interval start     Yes       • flashing symmetrically with interval start     Yes       • flashing symmetrically with interval start     No       • satification of curult with metval start     No       • satification function     No       • addite Curult with netval start     No       • addite Curult with netva	<ul> <li>initial value</li> </ul>	0.8
• at 24 V0.4 A• at 240 V5 Aduration of inush current peak0.3 ms• at 24 V0.5 msSwitching Function0.5 msswitching functionVes• ON-delay/instantaneous contactNo• ON-delay/instantaneous contactNo• passing make contactYes• OR-delay/instantaneous contactNo• OFF delayNo• Switching functionNo• Switching functionNo• CFF delayNo• Switching functionYes• flashing symmetrically with interval startYes• flashing symmetrically with pulse startYes• flashing symmetrically with pulse startNo• flashing asymmetrically with pulse startNo• flashing symmetrically with pulse startNo• flashing asymmetrically with pulse startNo• flashing symmetrically with pulseNo• flashing asymetrically with pulseNo• flashing asymetrically with pulseNo• flashing asymetrically with pulseNo• flashing asymetrically with puls	full-scale value	1.1
- at 240 V     5 A       duration of inrush current peak     0.3 ms       - at 24 V     0.5 ms       Switching Function     Ves       > Oh-delay     Yes       - Oh-delay/instantaneous contact     No       - passing make contact/instantaneous contact     No       - oFF delay     No       switching function     Yes       - oFF delay     No       switching symmetrically with interval start     Yes       - flashing symmetrically with pulse start     Yes       - flashing symmetrically with pulse start     No       - flashing symmetrically with pulse start     No       - flashing symmetrically with pulse start     No       - star-dela circuit     No       - off-f delay     Yes       - off-f delay/instantaneous     No       - off-f delay/instantaneous     No       - star-dela circuit     No       - star-dela circuit     No       - star-dela circuit     No       - star-dela circuit     No       - off-f delay/instantaneous     No       - off-f delay/instantaneous     No       - off-f delay/in	inrush current peak	
duration of inrush current peak     0.3 ms       • at 24 V     0.5 ms       Switching Function     • OK-delay       • OK-delay     Yes       • OK-delay/instantaneous contact     No       • passing make contactinstantaneous contact     No       • or F delay     No       • switching function     No       • flashing symmetrically with interval start     Yes       • flashing symmetrically with interval start     No       • start-deta circuit     Yes       • passing break contact     Yes       • passing break contact     Yes       • pulse delayed     Yes       • DFF delay/Instantaneous     No    <	● at 24 V	0.4 A
• at 24 V     0.3 ms       Switching Function		5 A
at 240 V     O.5 ms      Switching Function      switching function      ON-delay     ON-de	duration of inrush current peak	
Switching Function         ves           • ON-delay         Yes           • ON-delay         Yes           • DN-delay/instantaneous contact         No           • passing make contact/instantaneous contact         No           • OFF delay         No           switching function         No           • OFF delay         No           switching symmetrically with interval start         Yes           • flashing symmetrically with interval start         Yes           • flashing symmetrically with pulse start         Yes           • flashing asymmetrically with pulse start         No           star-dela circuit         No           switching function         No           • star-dela circuit         No           • passing break contact         Yes           • passing break contact         Yes           • pulse delayed/instantaneous         No           • pu	• at 24 V	0.3 ms
switching function         Yes           • ON-delay         Yes           • ON-delay         No           • passing make contact/instantaneous contact         No           • OF-delay         No           • off-delay         No           switching function         No           • flashing symmetrically with interval start         Yes           • flashing symmetrically with pulse         No           start/instantaneous         No           • flashing symmetrically with pulse start         Yes           • flashing symmetrically with pulse start         No           • star-delta circuit         No           • star-delta circuit         No           • star-delta circuit         No           • star-delta circuit         No           • passing break contact         Yes           • passing break contact         Yes           • passing break contact         Yes           • pulse delayed/instantaneous         No           • OFF	• at 240 V	0.5 ms
ON-delay     ON-delay     ON-delay     ON-delay     ON-delay     ON-delay     ON-delay     One delay     One	Switching Function	
ON-delay/instantaneous contact     Passing make contact/instantaneous contact     Passing make contact/instantaneous contact     OFF delay     No     switching function     flashing symmetrically with interval     start/instantaneous     flashing symmetrically with pulse     start/instantaneous     flashing symmetrically with pulse start     flashing asymmetrically with pulse start     No     star-delta circuit with delay time     star-delta circuit with delay time     star-delta circuit with delay time     star-delta circuit     ves     opassing break contact/instantaneous     OFF delay     OFF delay     pulse delayed     Yes     pulse delayed     No     satriction of interval relay with control signal     retrotriggerable with switched-on control     signal/instantaneous contact     retrotriggerable with	switching function	
	• ON-delay	Yes
	<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
• OFF delay         No           switching function	<ul> <li>passing make contact</li> </ul>	Yes
switching function <ul> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with pulse</li> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with pulse start</li> <li>star-detta circuit</li> <li>No</li> </ul> <li>switching function         <ul> <li>star-detta circuit</li> <li>No</li> <li>switching function with control signal</li> <li>additive ON-delay</li> <li>Yes</li> <li>passing break contact</li> <li>Yes</li> <li>passing break contact</li> <li>Yes</li> <li>ouble delayed</li> <li>Yes</li> <li>pulse delayed</li> <li>Yes</li> <li>pulse delayed/instantaneous</li> <li>No</li> <li>OFF delay/Instantaneous</li> <li>No</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>ouble/oFF-delay/instantaneous</li> <li>No</li> <li>ouble/oF-delay/instantaneous</li> <li>No</li> <li>ouble/oF-delay/instantaneous</li> <li>No</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>passing make contact</li> <li>yes</li> <li>passing make contact</li> <li>retortriggerable</li></ul></li>	·	No
• Iashing symmetrically with interval start       No         • Iashing symmetrically with pulse       No         • Iashing symmetrically with pulse start       Yes         • Iashing symmetrically with pulse start       No         • Iashing asymmetrically with pulse start       No         • Iashing asymmetrically with pulse start       No         • Iashing symmetrically with pulse start       No         • Iashing asymmetrically with outpulse       No         • Iashing asymmetrically with pulse start       No         • Iashing asymmetrically with outpulse       No         • Iashing asymmetrically with outpulse       No         • OFF delay       Yes         • pulse delayed       Yes         • pulse delayed/instan	OFF delay	No
start/instantaneous       Yes         • flashing symmetrically with pulse start       Yes         • flashing symmetrically with pulse start       No         • flashing asymmetrically with pulse start       No         • star-delta circuit with delay time       No         • star-delta circuit       No         • passing break contact/instantaneous       No         • pulse delayed       Yes         • pulse delayed/instantaneous       No         • pulse delayed/instantaneous       No         • pulse delay/instantaneous       No         • obt-leal/OFT-delay/instantaneous       No	-	
• flashing symmetrically with pulse start/instantaneous         No           • flashing symmetrically with pulse start         No           • flashing symmetrically with pulse start         No           • flashing asymmetrically with pulse start         No           • flashing asymmetrically with pulse start         No           • flashing asymmetrically with pulse start         No           • star-delta circuit with delay time         No           • star-delta circuit         No           • star-delta circuit         No           • star-delta circuit         No           • additive ON-delay         Yes           • passing break contact         Yes           • passing break contact/instantaneous         No           • OFF delay/instantaneous         No           • pulse delayed         Yes           • pulse delayed         Yes           • pulse delayed/instantaneous         No           • pulse-shaping         Yes           • pulse-shaping/instantaneous         No           • oDA-delay/instantaneous         No           • passing make contact/instantaneous         No           • pulse-shaping/instantaneous         No           • pulse-shaping/instantaneous         No           • catditive ON-delay/in		No
• flashing symmetrically with pulse start       No         • flashing asymmetrically with interval start       No         • flashing asymmetrically with pulse start       No         • flashing asymmetrically with pulse start       No         • star-delta circuit with delay time       No         • star-delta circuit with delay time       No         • star-delta circuit with delay time       No         • additive ON-delay       Yes         • passing break contact       Yes         • passing break contact/instantaneous       No         • OFF delay       Yes         • pulse delayed       Yes         • pulse delayed       Yes         • pulse delayed       Yes         • pulse delayed/instantaneous       No         • pulse delayed/instantaneous       No         • pulse-shaping/instantaneous       No         • pulse-shaping make contact       No         • pulse-shaping make contact       No         • pulse-shaping instantaneous       No         • pulse-shaping instantaneous       No         • passing make contact       No		Vee
start/instantaneous       Yes <ul> <li>flashing symmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> <li>star-delta circuit with delay time</li> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> <li>star-delta circuit</li></ul>		
• flashing asymmetrically with interval start       No         • flashing asymmetrically with pulse start       No         switching function       No         • star-delta circuit with delay time       No         • additive ON-delay       Yes         • additive ON-delay       Yes         • passing break contact       Yes         • passing break contact/instantaneous       No         • OFF delay       Yes         • pulse delayed       Yes         • pulse delayed/instantaneous       No         • pulse/shaping/instantaneous       No         • passing make contact/instantaneous contact       Yes         • etro		NO
• flashing asymmetrically with interval start       No         • flashing asymmetrically with pulse start       No         switching function       No         • star-delta circuit with delay time       No         • additive ON-delay       Yes         • additive ON-delay       Yes         • passing break contact       Yes         • passing break contact/instantaneous       No         • OFF delay       Yes         • pulse delayed       Yes         • pulse delayed/instantaneous       No         • pulse/shaping/instantaneous       No         • passing make contact/instantaneous contact       Yes         • etro	<ul> <li>flashing symmetrically with pulse start</li> </ul>	Yes
• flashing asymmetrically with pulse start       No         switching function       No         • star-delta circuit       No         switching function with control signal       Ves         • additive ON-delay       Yes         • passing break contact       Yes         • passing break contact/instantaneous       No         • OFF delay/instantaneous       No         • OFF delay/instantaneous       No         • pulse delayed/instantaneous       No         • pulse delayed/instantaneous       No         • pulse-shaping       Yes         • pulse-shaping instantaneous       No         • pulse-shaping instantaneous       No         • pulse-shaping make contact       Yes         • passing make contact       No         • passing make contact       No         • retrotriggerable with deactivated control signal       Yes         • retrotriggerable with switched-on control       No         signal/instantaneous contact       No <t< td=""><td></td><td>No</td></t<>		No
• star-delta circuit with delay time       No         • star-delta circuit       No         switching function with control signal	<ul> <li>flashing asymmetrically with pulse start</li> </ul>	No
• star-delta circuit         No           switching function with control signal         -           • additive ON-delay         Yes           • passing break contact/         Yes           • oFF delay         Yes           • OFF delay/instantaneous         No           • OFF delay/instantaneous         No           • pulse delayed         Yes           • pulse delayed/instantaneous         No           • pulse delayed/instantaneous         No           • pulse-shaping/instantaneous         No           • pulse-shaping/instantaneous         No           • pulse-shaping/instantaneous         No           • oN-delay/OFF-delay/instantaneous         No           • oN-delay/Instantaneous         No           • oN-delay/Instantaneous         No           • oN-delay/Instantaneous contact         No           • passing make contact/instantaneous contact         No           • passing make contact/instantaneous contact         No           • retrotriggerable with deactivated control signal         Yes           • retrotriggerable with witched-on control signal         Yes           • retrotriggerable with witched-on control signal         Yes           • retrotriggerable with witched-on control signal         Yes      <	switching function	
switching function with control signal       Yes         • additive ON-delay       Yes         • passing break contact       Yes         • passing break contact/instantaneous       No         • OFF delay       Yes         • OFF delay/instantaneous       No         • OFF delay/instantaneous       No         • pulse delayed       Yes         • pulse delayed       Yes         • pulse delayed/instantaneous       No         • pulse-shaping       Yes         • pulse-shaping/instantaneous       No         • pulse-shaping/instantaneous       No         • oN-delay/IOFF-delay/instantaneous       No         • ON-delay/IOFF-delay/instantaneous       No         • oN-delay/IOFF-delay/instantaneous contact       No         • passing make contact/instantaneous contact       No         signal/instantaneous contact       No         • retrotriggerable with deactivated control signal       Yes         • retrotriggerable with switched-on control signal       Yes         • retrotiggerable with switched-on control signal       Yes         • retrotinggerable with switched-on control signal       Yes         • retrotinggerable with switched-on control signal       Yes         • retrotinggerable with deactivated cont	<ul> <li>star-delta circuit with delay time</li> </ul>	No
• additive ON-delayYes• passing break contactYes• passing break contact/instantaneousNo• OFF delayYes• OFF delay/instantaneousNo• OFF delay/instantaneousYes• pulse delayedYes• pulse delayed/instantaneousNo• pulse-shapingYes• pulse-shaping/instantaneousNo• pulse-shaping/instantaneousNo• pulse-shaping/instantaneousNo• pulse-shaping/instantaneousNo• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• oN-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contactNo• passing make contactNo• retrotriggerable with deactivated control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with deactivated control signalYes• retrotriggerable with deactivated control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• retrotriggerable with deactivated control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• design of the control terminal non-floatingYes• Short-circuit protectionYes• design of the fuse link for short-circuit protection of the	star-delta circuit	No
• passing break contactYes• passing break contact/instantaneousNo• OFF delayYes• OFF delay/instantaneousNo• pulse delayedYes• pulse delayed/instantaneousNo• pulse delayed/instantaneousNo• pulse-shapingYes• pulse-shaping/instantaneousNo• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• oN-delay/OFF-delay/instantaneousNo• oN-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contactYes• passing make contactNo• retrotriggerable with deactivated control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• design of the control terminal non-floatingYes• Short-circuit protectionfuse gL/gG: 4 A	switching function with control signal	
• passing break contact/instantaneous       No         • OFF delay       Yes         • OFF delay/instantaneous       No         • pulse delayed       Yes         • pulse delayed/instantaneous       No         • pulse delayed/instantaneous       No         • pulse-shaping       Yes         • pulse-shaping/instantaneous       No         • pulse-shaping/instantaneous       No         • additive ON-delay/instantaneous       No         • oN-delay/OFF-delay/instantaneous       No         • oNo-delay/OFF-delay/instantaneous       No         • passing make contact       Yes         • passing make contact/instantaneous contact       No         switching function of interval relay with control signal       Yes         • retrotriggerable with deactivated control signal       Yes         • retrotriggerable with switched-on control signal       Yes         • retrotriggerable with switched-on control signal       Yes         • retrotiggerable with deactivated control signal       Yes         • retriggerable with deactivated control signal       Yes         design of the control terminal non-floating       Yes         Short-circuit protection       fees gL/gG: 4 A	<ul> <li>additive ON-delay</li> </ul>	Yes
OFF delayYesOFF delay/instantaneousNo• pulse delayedYes• pulse delayed/instantaneousNo• pulse delayed/instantaneousNo• pulse-shapingYes• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• oN-delay/OFF-delay/instantaneousNo• ON-delay/IOFF-delay/instantaneousNo• passing make contactYes• passing make contact/instantaneous contactNoswitching function of interval relay with control signalYes• retrotriggerable with deactivated controlNosignal/instantaneous contactNo• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with deactivated control signalYesdesign of the control terminal non-floatingYesShort-circuit protectionfuse gL/gG: 4 A	<ul> <li>passing break contact</li> </ul>	Yes
OFF delay/instantaneousNo• pulse delayedYes• pulse delayed/instantaneousNo• pulse-shapingYes• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contactNo• passing make contact/instantaneous contactNo• retrotriggerable with deactivated control signalNo• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retriggerable with deactivated control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with for short-circuit protection of thefuse gL/gG: 4 A	<ul> <li>passing break contact/instantaneous</li> </ul>	No
• pulse delayedYes• pulse delayed/instantaneousNo• pulse-shapingYes• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contact/instantaneous contactNo• passing make contact/instantaneous contactNo• retrotriggerable with deactivated control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with deactivated controlNosignal/instantaneous contactNo• retrotriggerable with deactivated control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• signal of the control terminal non-floatingYes• sign of the control terminal non-floatingYes• sign of the fuse link for short-circuit protection of thefuse gL/gG: 4 A	-	
• pulse delayed/instantaneousNo• pulse-shapingYes• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contact/instantaneous contactNo• passing make contact/instantaneous contactNo• retrotriggerable with deactivated control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with deactivated control signalYes• retroing the control terminal non-floatingYes• Short-circuit protectionfuse gL/gG: 4 A	-	
• pulse-shapingYes• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contact/instantaneous contactNoswitching function of interval relay with control signalNo• retrotriggerable with deactivated controlNosignal/instantaneous contactNo• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retriggerable with deactivated control signalYes• retrig		
• pulse-shaping/instantaneousNo• additive ON-delay/instantaneousNo• ON-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contact/instantaneous contactNoswitching function of interval relay with control signalNo• retrotriggerable with deactivated controlNosignal/instantaneous contactNo• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on control signalYes• retrotriggerable with deactivated control signalYes• retriggerable with deactivated control signalYesShort-circuit protectionYesdesign of the fuse link for short-circuit protection of thefuse gL/gG: 4 A		
additive ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous No passing make contact Yes passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable 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/instantaneous contact retrotriggerable with deactivated control Signal/instantaneous contact Res Short-circuit protection Ko Substrict State Ko Substrict		
• ON-delay/OFF-delay/instantaneousNo• passing make contactYes• passing make contact/instantaneous contactNoswitching function of interval relay with control signalNo• retrotriggerable with deactivated controlNosignal/instantaneous contactNo• retrotriggerable with switched-on control signalYes• retrotriggerable with switched-on controlNosignal/instantaneous contactNo• retrotriggerable with deactivated controlNosignal/instantaneous contactYes• retrotriggerable with deactivated control signalYes• retriggerable with for short-circuit protection of thefuse gL/gG: 4 A		
• passing make contact       Yes         • passing make contact/instantaneous contact       No         switching function of interval relay with control signal       •         • retrotriggerable with deactivated control signal       •         • retrotriggerable with switched-on control signal       Yes         • retrotriggerable with switched-on control signal       Yes         • retrotriggerable with switched-on control       No         signal/instantaneous contact       No         • retrotriggerable with deactivated control signal       Yes         • retrotriggerable with deactivated control signal       Yes         • retriggerable with deactivated control signal       Yes         Short-circuit protection       Yes         Short-circuit protection       Yes	-	
passing make contact/instantaneous contact     No     switching function of interval relay with control signal         eretrotriggerable with deactivated control         signal/instantaneous contact         eretrotriggerable with switched-on control signal         eretrotriggerable with switched-on control         signal/instantaneous contact         eretrotriggerable with switched-on control         signal/instantaneous contact         eretrotriggerable with deactivated control         signal/instantaneous contact         eretrotriggerable with deactivated control         signal/instantaneous contact         eretriggerable with deactivated control signal         Yes         eretriggerable with deactivated control signal         Yes         Short-circuit protection         design of the fuse link for short-circuit protection of the         fuse gL/gG: 4 A		
switching function of interval relay with control signal       No         • retrotriggerable with deactivated control signal       No         signal/instantaneous contact       Yes         • retrotriggerable with switched-on control signal       Yes         • retrotriggerable with switched-on control       No         signal/instantaneous contact       No         • retrotriggerable with switched-on control       No         signal/instantaneous contact       No         • retriggerable with deactivated control signal       Yes         design of the control terminal non-floating       Yes         Short-circuit protection       fuse gL/gG: 4 A		
• retrotriggerable with deactivated control signal/instantaneous contact         No           • retrotriggerable with switched-on control signal         Yes           • retrotriggerable with switched-on control signal         No           • retrotriggerable with switched-on control signal         No           • retrotriggerable with switched-on control         No           signal/instantaneous contact         No           • retriggerable with deactivated control signal         Yes           design of the control terminal non-floating         Yes           Short-circuit protection         Yes           design of the fuse link for short-circuit protection of the         fuse gL/gG: 4 A		NO
signal/instantaneous contact       Yes         • retrotriggerable with switched-on control signal       Yes         • retrotriggerable with switched-on control       No         signal/instantaneous contact       Yes         • retriggerable with deactivated control signal       Yes         design of the control terminal non-floating       Yes         Short-circuit protection       Yes         design of the fuse link for short-circuit protection of the       fuse gL/gG: 4 A		
• retrotriggerable with switched-on control signal         Yes           • retrotriggerable with switched-on control signal/instantaneous contact         No           • retriggerable with deactivated control signal         Yes           design of the control terminal non-floating         Yes           Short-circuit protection         Yes           design of the fuse link for short-circuit protection of the         fuse gL/gG: 4 A		INU
retrotriggerable with switched-on control 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 fuse gL/gG: 4 A	-	Yes
signal/instantaneous contact     Yes       • retriggerable with deactivated control signal     Yes       design of the control terminal non-floating     Yes       Short-circuit protection     Yes       design of the fuse link for short-circuit protection of the     fuse gL/gG: 4 A		
design of the control terminal non-floating       Yes         Short-circuit protection       gL/gG: 4 A		
Short-circuit protection         design of the fuse link for short-circuit protection of the         fuse gL/gG: 4 A	<ul> <li>retriggerable with deactivated control signal</li> </ul>	Yes
design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	design of the control terminal non-floating	Yes
	Short-circuit protection	
auxiliary switch required		fuse gL/gG: 4 A
	auxiliary switch required	

Auxiliary circuit				
material of switching contacts	AgSnO2			
	0			
number of NC contacts delayed switching	0			
number of NO contacts delayed switching	1			
number of CO contacts delayed switching				
operational current of auxiliary contacts at AC-15	<b>0</b> A			
• 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				
<ul> <li>at the relay outputs switchover delayed/without delay</li> </ul>	No			
non-volatile	No			
Electromagnetic compatibility				
EMC emitted interference acc. to IEC 61812-1	ambience A (industrial sector)			
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3			
conducted interference				
<ul> <li>due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection			
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV			
<ul> <li>due to conductor-conductor surge acc. to IEC</li> </ul>	1 kV			
61000-4-5				
field-based interference acc. to IEC 61000-4-3	10 V/m			
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge			
Safety related data				
protection class IP on the front acc. to IEC 60529	IP20			
type of insulation	Basic insulation			
category acc. to EN 954-1	none			
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				
• solid	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²			
<ul> <li>at AWG cables solid</li> </ul>	20 12			
<ul> <li>at AWG cables stranded</li> </ul>	20 12			
connectable conductor cross-section				
• solid	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>			
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²			
AWG number as coded connectable conductor cross section				
• solid	20 12			
stranded	20 12			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
height	100 mm			
width	17.5 mm			
depth	90 mm			

mounting		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
-		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
5		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2505-2AW30&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2AW30/manual





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