## SIEMENS

## Data sheet

## 3RP2505-1BW30



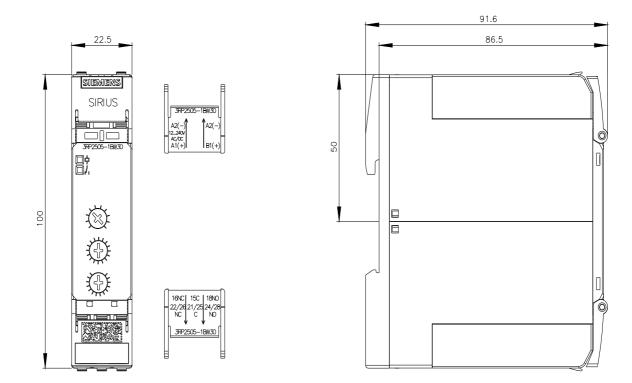
Timing relay, Multifunction 2 change-over contacts, 27 functions 7 time ranges (0.05 s...100 h) 12-240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

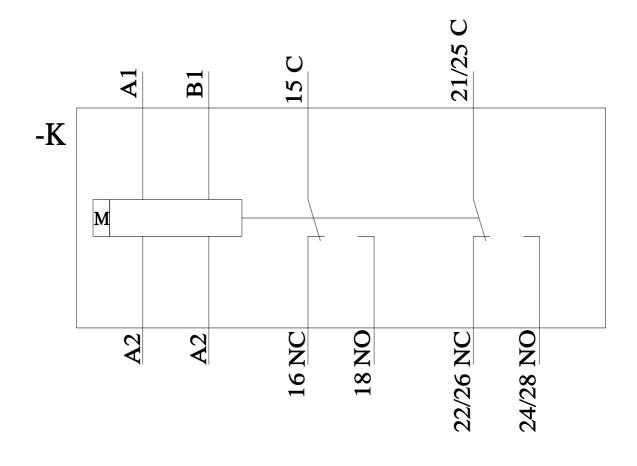
RECEIPT	
product brand name	SIRIUS
product designation	timing relay
design of the product	27 functions
product type designation	3RP25
General technical data	
product component	
<ul> <li>relay output</li> </ul>	Yes
<ul> <li>semi-conductor output</li> </ul>	No
product extension required remote control	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 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
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 value at DC	

<ul> <li>initial value</li> </ul>	0.8
<ul> <li>full-scale value</li> </ul>	1.1
operating range factor control supply voltage rated	
value at AC at 50 Hz	
<ul> <li>initial value</li> </ul>	0.8
<ul> <li>full-scale value</li> </ul>	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul> <li>initial value</li> </ul>	0.8
<ul> <li>full-scale value</li> </ul>	1.1
inrush current peak	
• at 24 V	0.3 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	No.
ON-delay	Yes
ON-delay/instantaneous contact	Yes
passing make contact	Yes
passing make contact/instantaneous contact	Yes
• OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	Yes
start/instantaneous	Voc
flashing symmetrically with interval start	Yes
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	Yes
<ul> <li>flashing symmetrically with pulse start</li> </ul>	Yes
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with merval start</li> </ul>	No
switching function	NO
star-delta circuit with delay time	No
star-delta circuit     with delay time     star-delta circuit	Yes
	165
switching function with control signal	Yes
additive ON-delay	
passing break contact     passing break contact/instantaneous	Yes
passing break contact/instantaneous	Yes
• OFF delay	Yes
OFF delay/instantaneous	Yes
pulse delayed	Yes
pulse delayed/instantaneous	Yes
• pulse-shaping	Yes
pulse-shaping/instantaneous	Yes
additive ON-delay/instantaneous	Yes
ON-delay/OFF-delay/instantaneous	Yes
passing make contact	Yes
passing make contact/instantaneous contact	Yes
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	Yes
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	Yes
<ul> <li>retrotriggerable with switched-on control</li> </ul>	Yes
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
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0

<ul> <li>instantaneous contact</li> </ul>	0
number of NO contacts	
<ul> <li>delayed switching</li> </ul>	0
instantaneous contact	0
number of CO contacts	
delayed switching	2
• instantaneous contact	0
operational current of auxiliary contacts at AC-15	2.4
• at 24 V	3 A 2 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13 • at 24 V	1 A
• at 24 V • 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
contact renasinty of advinary contacto	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	Yes
delay	
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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
<ul> <li>due to conductor-earth surge according to IEC</li> </ul>	2 kV
61000-4-5	
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
	10 V/m
field-based interference according to IEC 61000-4-3	
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 Safety related data	4 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2	
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC	4 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529	4 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation none
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation none
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation none Yes screw-type terminals
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
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electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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	4 kV contact discharge / 8 kV air discharge IP20 Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
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electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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 • at AWG cables stranded Connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section	4 kV contact discharge / 8 kV air discharge         IP20         Basic insulation 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)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.5 4 mm²
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electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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 <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> <li>connectable conductor cross-section         <ul> <li>solid</li> <li>at AWG cables stranded</li> </ul> </li> <li>connectable conductor cross-section         <ul> <li>solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section                  <ul> <li>solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section                         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>stranded</li> <li>tightening torque</li> </ul> </li> </ul></li></ul></li>	4 kV contact discharge / 8 kV air discharge         IP20         Basic insulation 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)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.5 4 mm²
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electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 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 <ul> <li>solid</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> <li>connectable conductor cross-section         <ul> <li>solid</li> <li>stranded with core end processing</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul> </li> <li>solid         <ul> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>stranded with core end processing</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>solid</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> </ul> </li>	4 kV contact discharge / 8 kV air discharge         IP20         Basic insulation none         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 nm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.5 4 mm²         20 12         20 12         20 14         0.6 0.8 N·m         M3

<ul> <li>with side-by-side mounting</li> </ul>				
— 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	0 mm			
— 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				
during operation	-25 +60 °C			
during storage	-40 +85 °C			
during transport	-40 +85 °C			
relative humidity during operation	10 95 %			
Certificates/ approvals				
General Product Approval	EMC			
Declaration of Conformity Test Certificate	es Marine / Shipping			
UK CE <u>Special Test Cer</u> ate	rtific- ates/Test Certific- ates/Test Report			
Marine / Shipping	other			
	Confirmation ENV-GL			
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=3RP2505-1BW30         Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-1BW30				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-1BW30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2505-1BW30⟨=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-1BW30/manual				





## last modified:

11/21/2022 🖸