## **SIEMENS**

Data sheet 3RP2505-2BW30



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 Spring-type terminal (push-in)

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
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
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	

initial value  initia
operating range factor control supply voltage rated value at ZC at 50 Hz initial value full-scale value 0.8 full-scale value 1.1 operating range factor control supply voltage rated value at AC at 60 Hz initial value initial va
operating range factor control supply voltage rated value at AC at 50 Hz  initial value  initial
initial value full-scale value  full-scale value  operating range factor control supply voltage rated value at AC at 60 Hz  initial value full-scale value  full-scale value  full-scale value  furush current peak at 24 V at 24 V by 5 A  duration of inrush current peak at 24 V by 5 A  duration of inrush current peak at 24 V by 5 A  duration of inrush current peak at 24 V by 5 A  duration of inrush current peak at 24 V by 5 A  duration of inrush current peak at 24 V by 5 ms  witching Function  witching Function  switching function  ON-delay/instantaneous contact passing make contact yes passing make contact yes passing make contact/instantaneous contact yes passing make contact/instantaneous contact yes oFF delay  witching function  flashing symmetrically with interval start yes flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start slashing asymmetrically with interval start slashing asymmetrically with interval start slashing asymmetrically with pulse start slashing asymmetrically with interval start slashing asymmetrically with pulse start No slashing function star-delta circuit with delay time star-delta circuit with delay time star-delta circuit with delay time star-delta circuit with control signal additive ON-delay Yes
• full-scale value  operating range factor control supply voltage rated value at AC at 60 Hz  • initial value • full-scale value  intush current peak • at 24 V • at 240 V  other at 24 V  other
operating range factor control supply voltage rated value at AC at 60 Hz  initial value  initial value  at 24 V  at 240 V  at 240 V  at 240 V  ost 240 V
AC at 60 Hz  initial value  inul-scale value  1.1  inrush current peak  at 24 V  at 240 V  5 A  duration of inrush current peak  at 24 V  at 240 V  5.5 ms   intuburent peak  at 24 V  at 240 V  5.5 ms   intuburent peak  at 24 V  at 240 V  5.5 ms   intuburent peak  at 24 V  at 240 V  5.5 ms   intuburent peak  at 24 V  at 240 V  5.5 ms  intuburent peak  at 24 V  at 240 V  5.5 ms  intuburent peak  at 24 V  at 24 V  buttehing Function  4.0 N-delay  at 24 V  con-delay (res  at 24 V  con-delay (res
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  Switching functon  ON-delay Yes  ON-delay Yes  Passing make contact Yes  passing make contact/instantaneous contact Yes  passing symmetrically with interval start/instantaneous Yes  flashing symmetrically with interval start Yes  flashing symmetrically with pulse start/instantaneous Yes  flashing asymmetrically with pulse start Yes  flashing asymmetrically with pulse start No  flashing asymmetrically with pulse start Yes  flashing asymmetrically with pulse start No  flashing function  star-delta circuit with delay time  star-delta circuit with delay time  start-delta circuit with control signal  additive ON-delay Yes
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  • ON-delay • ON-delay • ON-delay • passing make contact • passing make contact • passing make contact/instantaneous contact • OFF delay  switching function  • flashing symmetrically with interval start/instantaneous • flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start • No • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay  Yes
at 24 V at 240 V  5 A  duration of inrush current peak  at 24 V 0.3 ms at 240 V 0.5 ms  Switching Function  switching function  ON-delay ON-delay ON-delay/instantaneous contact passing make contact/instantaneous Pes Pes Pes Pes Pes Pes Pes Pes Pes Pe
• at 240 V  duration of inrush current peak  • at 24 V • at 240 V  0.5 ms  Switching Function  switching function  • ON-delay/instantaneous contact • passing make contact / Yes • passing make contact / Yes • OFF delay  No  switching function  • flashing symmetrically with interval start / Yes • flashing symmetrically with pulse start / Seshing asymmetrically with pulse start / No • flashing asymmetrically with pulse start / No • flashing asymmetrically with pulse start / No • flashing function • flashing symmetrically with pulse start / Yes • flashing symmetrically with pulse start / Yes • flashing asymmetrically with pulse start / No • flashing asymmetrically with pulse start / No • flashing function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay  Yes
duration of inrush current peak  at 24 V 0.3 ms 0.5 ms  Switching Function  switching function  ON-delay ON-delay/instantaneous contact passing make contact passing make contact/instantaneous contact Pes OFF delay No  switching function  flashing symmetrically with interval start/instantaneous flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start/instantaneous flashing asymmetrically with interval start flashing asymmetrically with pulse start flashing asymmetrically with pulse start flashing asymmetrically with interval start flashing asymmetrically with interval start flashing asymmetrically with pulse start flashing asymmetrically with pulse start flashing asymmetrically with pulse start No switching function star-delta circuit with delay time star-delta circuit Yes  switching function with control signal additive ON-delay Yes
at 24 V at 240 V  5. ms  Switching Function  switching function  ON-delay ON-delay ON-delay/instantaneous contact passing make contact passing make contact/instantaneous contact OFF delay  Switching function  flashing symmetrically with interval start/instantaneous flashing symmetrically with pulse start flashing symmetrically with pulse start flashing asymmetrically with interval start flashing asymmetrically with pulse start No switching function star-delta circuit with delay time star-delta circuit Yes  switching function with control signal additive ON-delay Yes
at 240 V  Switching Function  switching function  ON-delay  ON-delay  ON-delay/instantaneous contact  passing make contact  passing make contact/instantaneous contact  passing symmetrically with interval start/instantaneous  flashing symmetrically with interval start/instantaneous  flashing symmetrically with pulse start  flashing symmetrically with pulse start  flashing asymmetrically with interval start  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  Yes  switching function with control signal  additive ON-delay  Yes
switching function  • ON-delay • ON-delay • ON-delay/instantaneous contact • passing make contact • passing make contact/instantaneous contact • fleabing function • flashing symmetrically with interval start/instantaneous • flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start • flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start No • flashing asymmetrically with pulse start No • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay  Yes
switching function       Yes         • ON-delay       Yes         • ON-delay/instantaneous contact       Yes         • passing make contact/instantaneous contact       Yes         • DFF delay       No         switching function       Yes         • flashing symmetrically with interval start/instantaneous       Yes         • flashing symmetrically with pulse start/instantaneous       Yes         • flashing symmetrically with pulse start/instantaneous       Yes         • flashing asymmetrically with pulse start       No         • flashing asymmetrically with interval start       No         • flashing asymmetrically with pulse start       No         • star-delta circuit with delay time       No         • star-delta circuit with delay time       Yes         • star-delta circuit with control signal       Yes         switching function with control signal       Yes
ON-delay ON-delay/instantaneous contact Yes passing make contact passing make contact Yes OFF delay No  switching function flashing symmetrically with interval start/instantaneous flashing symmetrically with interval start flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start flashing symmetrically with pulse start flashing asymmetrically with pulse start No 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 Yes switching function with control signal additive ON-delay Yes
ON-delay/instantaneous contact passing make contact passing make contact/instantaneous contact Pes OFF delay No  switching function flashing symmetrically with interval start/instantaneous flashing symmetrically with interval start flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start flashing asymmetrically with interval start flashing asymmetrically with interval start flashing asymmetrically with pulse start No flashing asymmetrically with pulse start No switching function star-delta circuit with delay time star-delta circuit with delay time star-delta circuit Yes switching function with control signal additive ON-delay Yes
<ul> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>OFF delay</li> <li>No</li> <li>switching function</li> <li>flashing symmetrically with interval start/instantaneous</li> <li>flashing symmetrically with pulse start</li> <li>flashing symmetrically with pulse start/instantaneous</li> <li>flashing symmetrically with pulse start yes</li> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with interval start</li> <li>No</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> <li>yes</li> <li>switching function with control signal</li> <li>additive ON-delay</li> <li>Yes</li> </ul>
<ul> <li>passing make contact/instantaneous contact</li> <li>OFF delay</li> <li>No</li> <li>switching function</li> <li>flashing symmetrically with interval start/instantaneous</li> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with pulse start/instantaneous</li> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with pulse start</li> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> <li>No</li> <li>star-delta circuit with delay time</li> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> <li>yes</li> <li>switching function with control signal</li> <li>additive ON-delay</li> <li>Yes</li> </ul>
OFF delay  switching function  flashing symmetrically with interval start/instantaneous flashing symmetrically with interval start flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start flashing symmetrically with pulse start flashing asymmetrically with interval start flashing asymmetrically with interval start flashing asymmetrically with pulse start flashing asymmetrically with pulse start flashing asymmetrically with pulse start flashing asymmetrically with delay time flashing function star-delta circuit with delay time flashing function with control signal additive ON-delay flashing function flashing function flashing symmetrically with pulse start flashing symmetrically w
switching function  • flashing symmetrically with interval start/instantaneous  • flashing symmetrically with interval start  • flashing symmetrically with pulse start/instantaneous  • flashing symmetrically with pulse start  • flashing asymmetrically with interval start  • flashing asymmetrically with interval start  • flashing asymmetrically with pulse start  No  • flashing asymmetrically with pulse start  No  switching function  • star-delta circuit with delay time  • star-delta circuit  Yes  switching function with control signal  • additive ON-delay  Yes
flashing symmetrically with interval start Yes     flashing symmetrically with interval start Yes     flashing symmetrically with pulse start/instantaneous Yes     flashing symmetrically with pulse start Yes     flashing asymmetrically with interval start No     flashing asymmetrically with pulse start No     flashing asymmetrically with pulse start No     switching function     star-delta circuit with delay time No     star-delta circuit     yes  switching function with control signal     additive ON-delay Yes
flashing symmetrically with interval start     flashing symmetrically with pulse start/instantaneous     flashing symmetrically with pulse start     flashing asymmetrically with interval start     flashing asymmetrically with pulse start     No     flashing asymmetrically with pulse start     No     switching function     star-delta circuit with delay time     star-delta circuit     yes  switching function with control signal     additive ON-delay  Yes
• flashing symmetrically with pulse start/instantaneous     • flashing symmetrically with pulse start     • flashing asymmetrically with interval start     • flashing asymmetrically with pulse start     No     • flashing asymmetrically with pulse start     No     switching function     • star-delta circuit with delay time     • star-delta circuit     Yes  switching function with control signal     • additive ON-delay     Yes
• flashing symmetrically 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     Yes  switching function with control signal     • additive ON-delay  Yes
flashing asymmetrically with interval start     flashing asymmetrically with pulse start      No  switching function     star-delta circuit with delay time     star-delta circuit     Yes  switching function with control signal     additive ON-delay  Yes
flashing asymmetrically with pulse start      switching function
switching function  • star-delta circuit with delay time  • star-delta circuit  Yes  switching function with control signal  • additive ON-delay  Yes
<ul> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> <li>switching function with control signal</li> <li>additive ON-delay</li> <li>Yes</li> </ul>
• star-delta circuit  switching function with control signal • additive ON-delay  Yes  Yes
switching function with control signal  • additive ON-delay  Yes
additive ON-delay     Yes
passing break contact     Yes
passing break contact/instantaneous Yes  Ves  Ves
OFF delay  Yes  Yes
OFF delay/instantaneous     Yes     Nulse delayed
pulse delayed     Yes     Ves
pulse delayed/instantaneous     Yes
pulse-shaping     Yes  Pulse shaping/instantaneous  Yes  Yes
<ul> <li>pulse-shaping/instantaneous</li> <li>additive ON-delav/instantaneous</li> <li>Yes</li> </ul>
,,
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passing make contact/instantaneous contact     Yes  switching function of interval relay with control signal
• retrotriggerable with deactivated control Yes
signal/instantaneous contact  • retrotriggerable with switched-on control signal  Yes
33
retrotriggerable with switched-on control     signal/instantaneous contact      retriggerable with deactivated control signal
retriggerable with deactivated control signal  Yes  design of the control torrained non-fleeting.  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

<ul> <li>delayed switching</li> </ul>	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	
• 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	Yes
• 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	1 kV
61000-4-5	
61000-4-5 field-based interference according to IEC 61000-4-3	10 V/m
	10 V/m 4 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3	
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data	4 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3 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
field-based interference according to IEC 61000-4-3 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
field-based interference according to IEC 61000-4-3 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
field-based interference according to IEC 61000-4-3 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	4 kV contact discharge / 8 kV air discharge  IP20  Basic insulation none
field-based interference according to IEC 61000-4-3 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	4 kV contact discharge / 8 kV air discharge  IP20 Basic insulation none  Yes
field-based interference according to IEC 61000-4-3 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  Yes
field-based interference according to IEC 61000-4-3 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  spring-loaded terminals (push-in)
field-based interference according to IEC 61000-4-3 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  spring-loaded terminals (push-in)  0.5 4 mm²
field-based interference according to IEC 61000-4-3 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  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm²
field-based interference according to IEC 61000-4-3 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 • finely stranded without core end processing	4 kV contact discharge / 8 kV air discharge  IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²
field-based interference according to IEC 61000-4-3 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  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
field-based interference according to IEC 61000-4-3 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  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
field-based interference according to IEC 61000-4-3 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	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 2
field-based interference according to IEC 61000-4-3 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	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 20 12 20 12  0.5 4 mm²
field-based interference according to IEC 61000-4-3 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	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm²
field-based interference according to IEC 61000-4-3 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 • finely stranded without core end processing  • for AWG cables solid • for AWG cables stranded  connectable conductor cross-section  • solid • finely stranded with core end processing • finely stranded with core end processing	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 20 12 20 12 20 12 20 12 0.5 4 mm² 0.5 4 mm²
field-based interference according to IEC 61000-4-3 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	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 20 12  20 12  0.5 4 mm² 20 12
field-based interference according to IEC 61000-4-3 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 • finely stranded without core end processing  • for AWG cables solid • for AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded without core end processing	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 20 12 20 12 20 12 20 12 0.5 4 mm² 0.5 4 mm²
field-based interference according to IEC 61000-4-3 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 • for AWG cables solid • for AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 20 12  20 12  0.5 4 mm² 20 12
field-based interference according to IEC 61000-4-3 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 • for AWG cables solid • for AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing  AWG number as coded connectable conductor cross section • solid • stranded	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 20 12  20 12  0.5 4 mm² 20 12
field-based interference according to IEC 61000-4-3 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 • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • finely stranded without core end processing  AWG number as coded connectable conductor cross section • solid • stranded  Installation/ mounting/ dimensions	4 kV contact discharge / 8 kV air discharge         IP20         Basic insulation         none         Yes         spring-loaded terminals (push-in)         0.5 4 mm²         0.5 4 mm²         20 12         0.5 4 mm²         0.5 4 mm²         20 12         20 12         20 12         20 12         20 12         20 12
field-based interference according to IEC 61000-4-3 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
field-based interference according to IEC 61000-4-3 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	IP20 Basic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 20 12  10.5 4 mm² 20.5 2.5 mm² 20.5 4 mm² 20 12 20 12

required spacing		
<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		
— 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	
<ul> <li>during storage</li> </ul>	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity during operation	10 95 %	
Certificates/ approvals		
General Product Approval		EMC



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





**Special Test Certific**ate

Type Test Certificates/Test Report





Marine / Shipping

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=3RP2505-2BW30

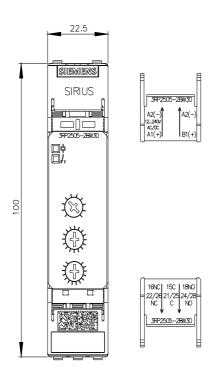
Cax online generator

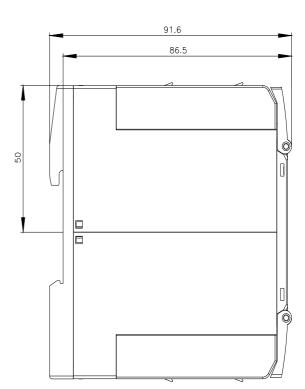
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-2BW30

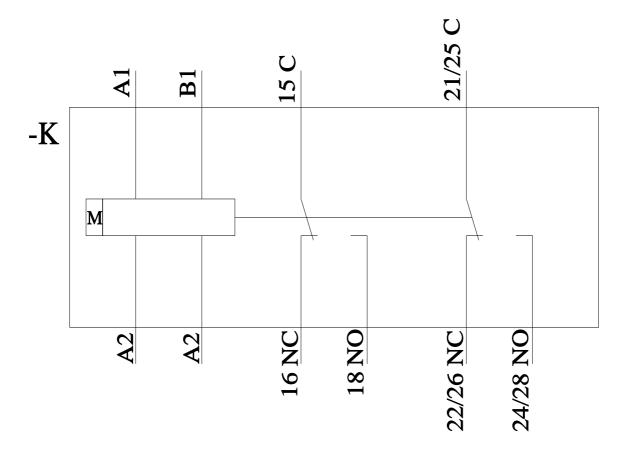
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2BW30/manual







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