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 Springtype terminal (push-in)

product brand name product designation design of the product product type designation SIRIUS timing relay 13 functions 3RP25

General technical data

nro	taur	component	ì.

· relay output

• semi-conductor output

product extension required remote control

product extension optional remote control

power loss [W] maximum

insulation voltage for overvoltage category III according to

IEC 60664 with degree of pollution 3 rated value

test voltage for isolation test

degree of pollution

surge voltage resistance rated value

protection class IP

shock resistance according to IEC 60068-2-27

vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical

electrical endurance (operating cycles) at AC-15 at

230 V typical

adjustable time

recovery time

relative setting accuracy relating to full-scale value

thermal current minimum ON period

reference code according to IEC 81346-2

relative repeat accuracy

influence of the surrounding temperature

power supply influence

Substance Prohibitance (Date)

Yes

No

No

No 2 W

300 V

2.5 kV

3

4 000 V

IP20

11g / 15 ms

10 ... 55 Hz / 0.35 mm

10 000 000

100 000

0.05 s ... 100 h

5 %; +/-

5 A

35 ms

250 ms

1 %; +/-

1% in the whole temperature range to the set runtime

1% in the whole voltage range to the set runtime

09/12/2014

Control circuit/ Control

type of voltage of the control supply voltage

control supply voltage 1 at AC

• at 50 Hz • at 60 Hz

control supply voltage frequency 1

control supply voltage 1

• at DC

operating range factor control supply voltage rated

value at DC

AC/DC

12 ... 240 V

12 ... 240 V

50 ... 60 Hz

12 ... 240 V

	0.0
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 50 Hz	
initial value	0.8
 full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
full-scale value	1.1
inrush current peak	
• at 24 V	0.4 A
• at 240 V	5 A
duration of inrush current peak	
• at 24 V	0.3 ms
• at 240 V	0.5 ms
	0.5 1115
Switching Function	
switching function	
ON-delay	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	Yes
 passing make contact/instantaneous contact 	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
flashing symmetrically with interval start	Yes
flashing symmetrically with pulse start/instantaneous	No
	Yes
flashing symmetrically with pulse startflashing asymmetrically with interval start	No
flashing asymmetrically with pulse start	No
switching function	N.
star-delta circuit with delay time	No
star-delta circuit	No
switching function with control signal	
	Vas
 additive ON-delay 	Yes
additive ON-delaypassing break contact	Yes
-	
 passing break contact 	Yes
passing break contactpassing break contact/instantaneous	Yes No
passing break contactpassing break contact/instantaneousOFF delay	Yes No Yes
passing break contactpassing break contact/instantaneousOFF delayOFF delay/instantaneous	Yes No Yes No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous 	Yes No Yes No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping 	Yes No Yes No Yes No Yes No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous 	Yes No Yes No Yes No Yes No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous 	Yes No Yes No Yes No Yes No Yos No Yes No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous 	Yes No Yes No Yes No Yes No Yes No Yes No No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact 	Yes No Yes No Yes No Yes No No Yes No No No No No No No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact 	Yes No Yes No Yes No Yes No Yes No Yes No No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal 	Yes No Yes No Yes No Yes No No Yes No No No No No No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control 	Yes No Yes No Yes No Yes No No Yes No No No No No No No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact 	Yes No Yes No Yes No Yes No No Yes No No No No No No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal 	Yes No Yes No Yes No Yes No No Yes No No No No No Yes No No Yes No No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact 	Yes No Yes No Yes No Yes No No Yes No No No No No No No No Yes No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control retrotriggerable with switched-on control 	Yes No Yes No Yes No Yes No No Yes No No No No No Yes No No Yes No No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact 	Yes No Yes No Yes No Yes No Yes No No No No No Yes No No Yes No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal 	Yes No Yes No Yes No Yes No Yes No No No No No Yes No Yes No Vo Yes No Yes No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal design of the control terminal non-floating 	Yes No Yes No Yes No Yes No No No No No No Yes No Ves No Ves No Ves No Ves No Ves No Yes No Yes No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required	Yes No Yes No Yes No Yes No Yes No No No No No Yes No Yes No Vo Yes No Yes No Yes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit 	Yes No Yes No Yes No Yes No No No No No Yes No Ves No Tyes Tyes Tyes Tyes
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with deactivated control signal design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts 	Yes No Yes No Yes No Yes No No No No No No Yes No Ves No Ves No Ves No Ves No Ves No Yes No Yes No
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts number of NC contacts 	Yes No Yes No Yes No No Yes No No No No No Yes No Tes No Tes No AgSnO2
 passing break contact passing break contact/instantaneous OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with deactivated control signal design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts 	Yes No Yes No Yes No Yes No No No No No Yes No Ves No Tes

e instantaneous contact unumber of NO contacts • delayed switching • instantaneous contact unumber of CO contacts • delayed working • instantaneous contact operational current of auxiliary contacts at AC-15 • at 24-V • at 250 V operational current of auxiliary contacts at DC-13 • at 125 V • at 250 V operational current of auxiliary contacts at DC-13 • at 125 V • at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts at DC-13 • at the relay outputs without or edayed/without delay. contact rating of auxiliary contacts according to UL switching apacity current with inductive load inputs Outputs product function • at the relay outputs awitchover delayed/without delay. Content contact cause of the contact and the contact cause of the contact ca		
e delayed switching instantaneous contact number of CO contacts delayed switching instantaneous contact operational current of auxillary contacts at AC-15 at 24 V at 250 V at 260 V at 260 V at 260 V at 270 V at		0
instantaneous contact include of CD contacts elelayed witching instantaneous contact operational current of auxiliary contacts at AC-15 at 28 24 v at 250 V operational current of auxiliary contacts at DC-13 at 250 V operational current of auxiliary contacts at DC-13 at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary and control contact con		
e delayed switching 1 0 0 0 0 0 0 0 0 0	-	
e instantaneous contact operational current of auxillary contacts at AC-15 e at 24 V e at 250 V operational current of auxillary contacts at DC-13 a at 24 V e at 125 V operational current of auxillary contacts at DC-13 a to 24 V e at 125 V out at 250 V operating frequency with 3RT2 contactor maximum contact relability of auxillary contacts contact rating of auxillary contacts		U
e installaneous contact operational current of auxillary contacts at AC-15 e at 24 V e at 250 V o a		1
sperational current of auxiliary contacts at AC-15	, 0	
a ta 250 V operational current of auxiliary contacts at DC-13 at 25 V at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load inputs / Outputs product function at the relay outputs switchover delayed/without delay e non-vokatile ENC emitted interference according to IEC 61812-1 ENC immunity according to IEC 61812-1 conducted interference according to IEC 61812-1 conducted interference due to conductor-earth surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 safety related data protection class IP on the front according to IEC 61000-4-2 sype of insulation category according to EN 954-1 Connections/ Terminals reproduct component removable terminal for auxiliary and control circuit type of electical connectable conductor cross-section solid infely stranded with core end processing infely stranded with core end processing infely stranded without core end processing infe		
e at 24 V e at 125 V		3 A
at 125 V at 126 V at 125 V at 126 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load public function at the relay outputs switchover delayed/without delay non-volatile EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 EMC immunity according to IEC 61812-1 Conducted interference according to IEC 61000-4-4 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-2 Sofety related data protection class IP on the front according to IEC 61000-4-2 Sofety related data protection class IP on the front according to IEC 61000-4-2 Sofety related data protection class IP on the front according to IEC 61000-4-2 isolar vanded with core end processing at AWC cables stranded and AWC acables sainded and AWC acables stranded and AWC acables stranded and AWC acables stranded and AWC acables stranded and AWC anumber as coded connectable conductor cross-section a solid a finely stranded without ore end processing a finely stranded without core end processing a finely stranded without c	• at 250 V	3 A
e at 125 V e at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts according to UL, 8300 / B300 inputs/ Outputs product function	operational current of auxiliary contacts at DC-13	
• at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxillary contacts contact rating of auxillary contacts according to UL switching capacity current with inductive load inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility ENC emitted interference according to IEC 61812-1 conducted interference • due to burst according to IEC 61812-1 conducted interference • due to burst according to IEC 61812-1 conducted interference • due to conductor-centuctor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety related data protection class IP on the front according to IEC 61000-4-2 Sefety rel	• at 24 V	
operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts according to UL R300 / 8 molecular straing of auxiliary contacts according to UL R300 / 8 molecular straing of auxiliary contacts according to UL R300 / 8 molecular straing of auxiliary contacts according to UL R300 / 8 molecular straing of auxiliary and control circuit type of connectable conductor cross-section solid extrantal straing of auxiliary and control circuit strained without core end processing friency stranded without core end processing in contaction in control strained in the contaction of auxiliary and control circuit strained with core end processing in finely stranded with core end processing in contaction in control strained in contaction in contaction in contaction in control strained in contaction in contaction in control control contaction in control contaction in control contaction in control co		VIII 1
contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load Imputs/ Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 conducted interference a due to burst according to IEC 61812-1 conducted interference due to burst according to IEC 61800-4-4 a due to conductor-earth surge according to IEC 61000-4-5 due to conductor-earth surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 protection class IP on the front according to IEC 6529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections solid finely stranded with core end processing elinely stranded without core end processing finely stranded		
contact rating of auxiliary contacts according to UL switching capacity current with inductive load 0.01 3 A Inputs/ Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 conducted interference due to burst according to IEC 61812-1 conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge 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 6000-4-2 Safety related data protection class IP on the front according to IEC 6000-4-2 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 el finely stranded without core end processing el finely stranded with core end processing el finely stranded without core end processing el finely stranded with core end processing el		
contact rating of auxiliary contacts according to UL switching capacity current with inductive load 0.01 3 A Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 corresponds to degree of severity 3 corresponds to degree of severity 3 conducted interference • due to burst according to IEC 61800-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-earth surge according to IEC 61000-4-2 due to conductor-earth surge according to IEC 61000-4-2 due to conductor-earth surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-2 due to conductor conductor surge according to IEC 61000-4-2 due to conductor due to IEC 61000-4-2 due to conductor due to IEC 61000-4-2 due to conductor due to IEC 61000-4-2 due to conductor c	Contact reliability of auxiliary contacts	
inputs/ Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility Electromagnetic compatibility Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 conducted interference due to burst according to IEC 61800-4-4 out to conductor-earth surge according to IEC 61000-4-5 out to conductor-conductor surge according to IEC 61000-4-5 out to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 safety related data protection class IP on the front according to IEC 6022 protection class IP on the front according to IEC 6023 product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-section of finely stranded with core end processing at AWG cables solid of finely stranded with core end processing of finely stranded with core end pro	contact rating of auxiliary contacts according to UL	
Inputs/ Outputs Product function at the relay outputs switchover delayed/without delay a non-volatile No		
product function		
elay • non-volatile Filectromagnetic compatibility EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-certh surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 * diverto conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 * 4 kV contact discharge / 8 kV air discharge * AkV air discharge * P20 * Safety related data * protection class IP on the front according to IEC 61000-4-2 * protection class IP on the front according to IEC 61000-4-2 * product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables stranded • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • solid • stranded **Total market conductor cross **T		
Floctromagnetic compatibility EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61800-4-4 • due to conductor-centh surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 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 • at AWG cables solid • at AWG cables stranded • incely stranded with core end processing • finely stranded without core end processing • solid • solid • solid • solid • stranded • strand		No
Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety rolated data protection class IP on the front according to IEC 61000-4-2 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 • if nely stranded without core end processing • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • solid • so	•	NI-
EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • 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 61000-4-2 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded • at AWG cables stranded • finely stranded with core end processing • solid • stranded • stranded • stranded • stranded and immunity according to IEC 61000-4-2 the Viction of the Victi		NO
EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor coss-section to IEC 61000-4-5 • due to conductor coss-sections • solid • stranded • strand		
conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference 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 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 without core end processing • at AWG cables stranded • 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 • finely stranded without core end processing • solid • solid • solid • stranded • stranded stranded str	-	
due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge 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 61000-4-2 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 solid finely stranded with core end processing el at AWG cables solid finely stranded with core end processing el finely stranded without core end processing el finely stranded	, ,	corresponds to degree of severity 3
• due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 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 61000-4-2 protection class IP on the front according to IEC 61000-4-2 protection class IP on the front according to IEC 61000-4-2 product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-section • solid		2 kV network connection / 1 kV control connection
• due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 • ledt-based interference according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 61000-4-2 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 • finely stranded with core end processing • finely stranded without core end processing • solid • solid • solid • solid • solid • stranded Summer as coded connectable conductor cross section • solid • stranded Summer as coded connectable conductor cross section • solid • stranded Summer as coded connectable conductor cross section • solid • stranded Summer as coded connectable conductor cross section • solid • stranded Summer as coded connectable conductor cross section • solid • stranded Summer as coded connectable conductor cross section • solid • stranded	-	
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 product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position		
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 6000-4-2 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connectable conductor cross-sections • solid • at AWG cables stranded • finely stranded with core end processing • solid • at AWG cables stranded • finely stranded with core end processing • finely stranded with core end processing • solid • at AWG cables stranded • finely stranded with core end processing • finely stranded with core end processing • solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • solid • stranded 10 V/m 4 kV contact discharge / 8 kV air discharge		1 kV
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 stranded • at AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • at AWG cables stranded • finely stranded with core end processing • finely stranded without core end processing • solid • stranded • stranded 20 12 Installation/ mounting/ dimensions mounting position		10 V/m
Protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 none 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 • solid • finely stranded with core end processing • solid • at AWG cables stranded • finely stranded with core end processing • solid • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • stranded 10.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 Installation/ mounting/ dimensions mounting position any	=	
protection class IP on the front according to IEC 60529 type of insulation Basic insulation category according to EN 954-1 none 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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position Basic insulation Basic insulation Basic insulation spirallelation Pes and The P20 Spirallelation Spirallelation Basic insulation Spirallelation The P20 Spirallelation Spirallelation Spirallelation Spirallelation Basic insulation Spirallelation The P20 Spirallelation Spiral		
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 • at AWG cables solid • at AWG cables stranded • finely stranded with core end processing • at 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 • finely stranded without core end processing • finely mumber as coded connectable conductor cross section • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position Basic insulation yes yes yes yes yes yes yes ye		IP20
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 • at AWG cables solid • at AWG cables stranded • at AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • 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 • finely stranded without core end processing • Solid • stranded Installation/ mounting/ dimensions mounting position		
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 • at AWG cables solid • at AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • at AWG cables described and the conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • solid • solid • solid • stranded Installation/ mounting/ dimensions mounting position Yes Spring-loaded terminals (push-in) * spring-loa		Basic insulation
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 • at AWG cables solid • at 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 • finely stranded without core end processing • solid • solid • solid • stranded 20 12 Installation/ mounting/ dimensions Yes spring-loaded terminals (push-in) 0.5 4 mm² 1.5 4 mm² 1		none
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 • finely stranded with core end processing • solid • at AWG cables stranded • finely stranded with core end processing • 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 • finely stranded without core end processing • solid • solid • solid • solid • stranded 10.5 4 mm² 10.5 4 mm² 10.5 2.5 mm² 10.5 2.5 mm² 10.5 4 mm² 10.5 4 mm² 10.5 2.5 mm² 10.5 4 mm² 10.5 2.5 m	Connections/ Terminals	
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections		Yes
type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • solid • solid • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • stranded		spring-loaded terminals (nush-in)
 solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG number as code description at AWG number as coded connectable conductor cross section as solid as stranded any 	**	ייין אייין אייי
 finely stranded with core end processing finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG number cross-section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as cod		0.5 4 mm²
 finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG number as coded conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section any 		
 at 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 solid stranded tranded 12 stranded 12 stranded 12 any 		0.5 4 mm²
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 • solid • stranded 20 12 • stranded Installation/ mounting/ dimensions mounting position any	 at AWG cables solid 	20 12
 solid finely stranded with core end processing finely stranded without core end processing MWG number as coded connectable conductor cross section solid stranded stranded 12 stranded 12 stranded 12 any 		20 12
 finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded stranded 12 stranded 12 12 any 		
• finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded • stranded 20 12 Installation/ mounting/ dimensions mounting position 0.5 4 mm² 20 12 20 12 any		
AWG number as coded connectable conductor cross section • solid • stranded 20 12 • stranded 20 12 Installation/ mounting/ dimensions mounting position any	· · · · · · · · · · · · · · · · · · ·	
section • solid • stranded 20 12 • stranded 20 12 Installation/ mounting/ dimensions mounting position any		V.V + IIIIII
• stranded 20 12 Installation/ mounting/ dimensions mounting position any		
Installation/ mounting/ dimensions mounting position any	• solid	20 12
mounting position any	• stranded	20 12
	Installation/ mounting/ dimensions	
fastening method	mounting position	
	31	any
height 100 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail
	fastening method height	screw and snap-on mounting onto 35 mm DIN rail 100 mm
depth 90 mm	fastening method height width	screw and snap-on mounting onto 35 mm DIN rail 100 mm 17.5 mm

required spacing • with side-by-side mounting — forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm- at the side 0 mm · for grounded parts - forwards 0 mm 0 mm - backwards

— backwards
 — upwards
 — at the side
 — downwards
 ● for live parts
 — forwards
 — backwards
 — upwards
 — downwards
 0 mm
 − mm
 − mm
 − mm
 − mm
 − mm
 − downwards
 0 mm
 0 mm

Ambient conditions

- at the side

installation altitude at height above sea level maximum

ambient temperature

• during operation
• during storage
• during transport
• during transport

relative humidity during operation

2 000 m

-25 ... +60 °C

-40 ... +85 °C

10 ... +85 °C

0 mm

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2505-2AW30

Cax online generator

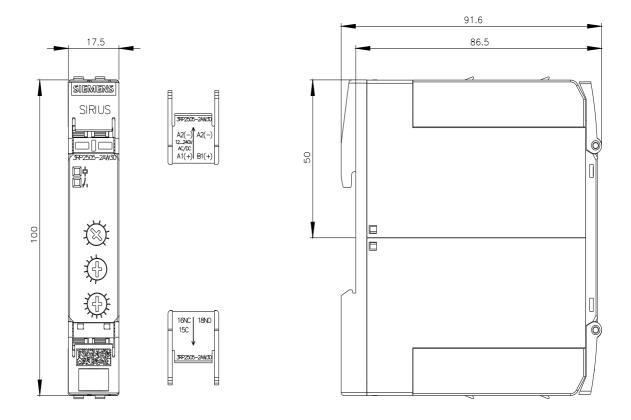
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-2AW30

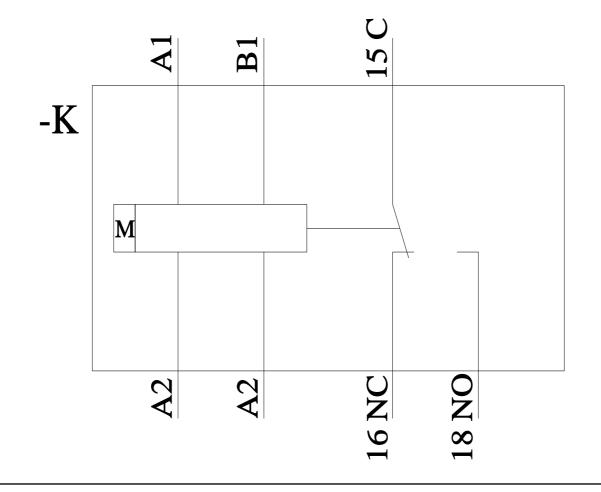
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2AW30

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

 $\underline{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2505-2AW30\&lang=endersend$





last modified: 11/21/2022 🖸