SIEMENS

Data sheet 3RP2505-1RW30



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

product brand name	SIRIUS
product designation	timing relay
design of the product	13 functions, suitable for railway applications
product type designation	3RP25
General technical data	
product component	
relay output	Yes
semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.5 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz / 0.35 mm
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 s 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	35 ms
recovery time	250 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	1% in the whole temperature range to the set runtime
power supply influence	1% in the whole voltage range to the set runtime
Substance Prohibitance (Date)	04/21/2016
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
● at 50 Hz	24 240 V
● at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
• at DC	24 240 V

operating range factor control supply voltage rated value at DC initial value i		
e fulls-cale value value at AC at 50 Hz initial value (full-scale value) operating range factor control supply voltage rated value at AC at 50 Hz initial value (full-scale value) operating range factor control supply voltage rated value at AC at 50 Hz initial value (full-scale value) of tull-scale value (full-scale value)		
Coperating range factor control supply voltage rated value at Ac at 50 texts 1.1		
value x AC at 50 Hz • Initils value • Initils cale value • Initils cale value • Initils cale value value x AC at 60 Hz • Initils value • Ini		1.1
# full-scale value 0.7 inital value 0.7 full-scale value 0.7 inital value 0.5 A at 24 V 0.5 A at 24 V 0.5 ms values 0.7 ms at 24 V 0.5 ms at 24 V 0.5 ms at 24 V 0.5 ms values 0.7 ms valu		
Concenting range factor control supply voltage rated value at AC at 60 Nz initial value initial value 1.1 incrush current peak 1.2 42 V 1.2 40 V 1.3 5 A duration of inrush current peak 1.2 42 V 1.2 40 V 1.3 5 A duration of inrush current peak 1.3 42 V 1.4 24 V 1.4 24 V 1.4 24 V 1.5 A 4.5 A 4.5 A duration of inrush current peak 1.5 A 1.6 A 1.7 S S S S S S S S S S S S S S S S S S S	initial value	
value at AC at 60 Hz 1.1 initial value 0.7 full-scale value 1.1 intrush current peak 5.A at 24 V 5.A at 24 V 0.4 ms at 24 V 0.5 ms at 24 V 0.6 ms at 24 V 0.6 ms at 24 V 0.6 ms at 24 V 0.7 ms by 25 Victoring function Ves a passing make contact winstantaneous contact No a 1 sashing symmetrically with interval start No at 1 sa		1.1
• full-scale value Inrush current peak • at 24 V 0.5 A • at 240 V 0.5 ms • ON-delay function	value at AC at 60 Hz	
at 24 V		
e. at 24 V 5 A 5 A		1.1
e at 240 V duration of inrush current peak	•	
at 24 V 0.4 ms at 24 V 0.5 ms witching Function witching Function which grant to a contact passing make contact passing make contact Possibility function flashing symmetrically with interval start flashing symmetrically with interval start/instantaneous contact flashing symmetrically with pulse start flashing symmetrically with pulse symmetrically with pulse start flashing symm		
a 12 4 V 0,5 ms a 12 4 V 0,5 ms witching Function switching function ON-delay instantaneous contact No passing make contact/instantaneous contact No OFF delay No switching function • (a) Fig. 1) Fig. 1 • (a) Fig. 1) Fig. 1 • (b) Fig. 1) Fig. 1 • (c) Fig. 2) Fig. 2 • (c) Fig. 2) Fig. 3 • (c) Fig. 3 • (c) Fig. 4 • (_ 5 A
**at 240 V **switching Function **ON-delay function **ON-delay function **ON-delay function **ON-delay function **OFF delay **switching function **fashing symmetrically with interval start functions are functions as the function function of the function functi		
switching function • ON-delay		
switching function ON-delay/instantaneous contact Pessing make contact/instantaneous contact Passing make contact/instantaneous Passing symmetrically with interval start Passing symmetrically with pulses at the start instantaneous Passing symmetrically with pulse start Passing asymmetrically with pulse start Passing symmetrically with pulse start Passing symmetrically with pulse start Passing function Passing function Passing function Passing break contact Passing break contact Passing break contact Passing break contact/instantaneous Passing make contact Passing make contact Passing make contact Passing make contact/instantaneous Passing make contact/instantaneous contact Passing make contact/inst	*** = ** *	U.5 ms
ON-delay/instantaneous contact passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing make contact/instantaneous contact process of Feday witching function flashing symmetrically with interval start flashing symmetrically with pulse flashing symmetrically with pulse flashing symmetrically with pulse start flashing asymmetrically with object start flashing asymmetrically with pulse start flashing asymmetrically with object start flashing asymmetrically with pulse start flashing asymmetrically with object start flashing asymmetrically with flashing asymmetrically with control signal flashing symmetrically with switched-on control signal flashing function of interval relay with control signal flashing function		
ON-delay/instantaneous contact passing make contact (ves passing make contact/instantaneous contact OFF delay wo switching function lashing symmetrically with interval start lashing symmetrically with pulse start/instantaneous lashing symmetrically with pulse start/instantaneous lashing symmetrically with pulse start/instantaneous lashing symmetrically with pulse start lashing asymmetrically with control signal lashing asymmetrically with pulse lashing asymmetrically with pulse lashing asymmetrically with control signal lashing asymmetrically with contr	_	
passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact vorteday	•	
passing make contact/instantaneous contact	•	
OFF delay witching function	 passing make contact 	Yes
### Start/instantaneous Ilashing symmetrically with interval startinstantaneous Ilashing symmetrically with interval start Yes Ilashing symmetrically with pulse start Yes Ilashing symmetrically with pulse start Yes Ilashing symmetrically with pulse start Yes Ilashing asymmetrically with pulse start No Ilashing symmetrically with pulse start No Ilashing asymmetrically with pulse start No Switching function Ilashing asymmetrically with pulse start No Ilashing asymmetrically with pulse s	· · · · · ·	
• flashing symmetrically with interval start	OFF delay	No
start/instantaneous • flashing symmetrically with interval start • flashing symmetrically with pulse start/instantaneous • flashing asymmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start • flashing asymmetrically with pulse start No switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • additive ON-delay • passing break contact • passing break contact • passing break contact • passing break contact • pulse delayed • pulse delayed • pulse delayed/instantaneous • pulse delayed/instantaneous • pulse-shaping • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal	_	
• flashing symmetrically with pulse start / flashing asymmetrically with interval start / flashing asymmetrically with interval start / flashing asymmetrically with pulse start / flashing asymmetrically with deal with flashing asymmetrically with deal with flashing asymmetrically with pulse start / flashing asymmetrically with pulse switching function of interval relay with control signal / retrotriggerable with deactivated control signal / retrotriggerable with switched-on control signal / retrotriggerable with deactivated control signal / retrotriggerable with switched-on control signal / retrotriggerable with deactivated control signal / retrotriggerable with switched-on control signal / retrotriggerable with deactivated control signal / retrotriggerable with switched-on control signal / retrotriggerable with switched-on control signal / retrotriggerable with switched-on contro		No
start/instantaneous • flashing symmetrically with pulse start • flashing asymmetrically with pulse start • flashing asymmetrically with pulse start • flashing asymmetrically with pulse start • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay/instantaneous • pulse delayed • pulse delayed • pulse shaping • pulse-shaping • pulse-shaping/instantaneous • additive ON-delay/instantaneous • oNo • ON-delay/OFF-delay/instantaneous • oNo • DoN-delay/OFF-delay/instantaneous • additive ON-delay/instantaneous • passing make contact • passing make contact • passing make contact • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal	 flashing symmetrically with interval start 	Yes
• flashing asymmetrically with interval start • flashing asymmetrically with pulse start switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay/instantaneous • pulse delayed/instantaneous • pulse delayed/instantaneous • pulse-shaping • pulse-shaping • pulse-shaping • pulse-shaping/instantaneous • additive ON-delay/instantaneous • additive ON-delay/instantaneous • pulse-shaping Yes • DN-delay/OFF-delay/instantaneous • passing make contact • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with for short-circuit protection design of the fuse link for short-circuit protection of the		No
* flashing asymmetrically with pulse start **switching function** * star-delta circuit with delay time		Yes
switching function • star-delta circuit with delay time • star-delta circuit switching function with control signal • additive ON-delay • passing break contact • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay/instantaneous • pulse delayed/instantaneous • pulse delayed/instantaneous • pulse-shaping • pulse-shaping • pulse-shaping/instantaneous • additive ON-delay/instantaneous • No • pulse-shaping/instantaneous • No • pulse-shaping/instantaneous • No • additive ON-delay/instantaneous • No • passing make contact • 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 • retrotriggerable with switched-on control signal/instantaneous contact • retriggerable with switched-on control signal/instantaneous contact • retriggerable with switched-on control signal/instantaneous contact • retriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal/instantaneous • retrotriggerable with switched-on control signal/instant		
star-delta circuit with delay time star-delta circuit switching function with control signal additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay(OFF d		No
star-delta circuit switching function with control signal additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous additive ON-delay/instantaneous pulse-shaping/instantaneous additive ON-delay/instantaneous pulse-shaping/instantaneous additive ON-delay/instantaneous additive ON-delay/instantaneous additive On-delay/instantaneous No ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact ves passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrographe with deactivated control signal retrographe with cactivated control signal retrographe with switched-on control signal	_	
***additive ON-delay** ***passing break contact** **passing break contact/instantaneous** **OFF delay** **OFF delay** **OFF delay/instantaneous** **pulse delayed** **pulse delayed/instantaneous** **pulse-shaping** **pulse-shaping/instantaneous** **pulse-shaping/instantaneo	•	
 additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay Yes OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse delayed/instantaneous pulse-shaping pulse-shaping yes pulse-shaping/instantaneous No additive ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous Passing make contact passing make contact/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with deactivated control signal retrotriggerable with deactivated control signal retriggerable with for short-circuit protection 		No No
 passing break contact/ passing break contact/instantaneous OFF delay OFF delay OFF delay/instantaneous No pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous No additive ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous Passing make contact passing make contact passing make contact/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with for control terminal non-floating yes short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 		
passing break contact/instantaneous OFF delay OFF delay OFF delay/instantaneous pulse delayed pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping pulse-shaping/instantaneous No pulse-shaping/instantaneous No ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact passing function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with deactivated control signal retrotriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal Yes design of the control terminal non-floating Yes Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	-	
OFF delay OFF delay/instantaneous OFF delay/instantaneous pulse delayed pulse delayed/instantaneous No pulse-shaping pulse-shaping pulse-shaping/instantaneous No additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous Passing make contact Pes passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal/instantaneous contact signal/instantaneous contact signal/instantaneous contact signal/instantaneous contact signal/in		
OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact witching 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/instantaneous contact retriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal retrotriggerable with deactivated control signal yes design of the control terminal non-floating retrotrigult protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A		
 pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous pulse-shaping/instantaneous pulse-shaping/instantaneous pulse-shaping/instantaneous Additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous No passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact No switching function of interval relay with control signal eretrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating Yes Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 	•	
 pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous pulse-shaping/instantaneous pulse-shaping/instantaneous pulse-shaping/instantaneous No additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 		
 pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact witching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retriggerable with switched-on control signal retriggerable with deactivated control signal retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 	,	
 pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous No passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact ves passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retriggerable with switched-on control signal retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 		
 additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 		
 ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing make contact/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 		
 passing make contact passing make contact/instantaneous 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 retriggerable with deactivated control signal Yes design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 		
passing make contact/instantaneous contact switching function of interval relay with control signal		
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 Yes • retrotriggerable with switched-on control signal/instantaneous contact • retriggerable with deactivated control signal Yes design of the control terminal non-floating Yes Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	· · · · · ·	
 retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with deactivated control signal Yes design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 	· · · · · ·	INO
signal/instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal No signal/instantaneous contact • retriggerable with deactivated control signal Yes design of the control terminal non-floating Yes Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A		Na
 retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with deactivated control signal Yes Chort-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A 	signal/instantaneous contact	
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 fuse gL/gG: 4 A		
design of the control terminal non-floating Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	signal/instantaneous contact	
Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A		
design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	design of the control terminal non-floating	Yes
design of the fuse link for short-circuit protection of the auxiliary switch required fuse gL/gG: 4 A	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
instantaneous contact	0
number of NO contacts	
 delayed switching 	0
instantaneous contact	0
number of CO contacts	
 delayed switching 	2
instantaneous contact	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	4.0
• 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 one incorrect switching operation of 100 million switching operations (17
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 	No
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	
 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
category according to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
at AWG cables solid	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
finely stranded with core end processing	0.5 4 mm²
AWG number as coded connectable conductor cross section	
• solid	20 12
• stranded	20 14
tightening torque	0.6 0.8 N·m

design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	100 mm
width	22.5 mm
depth	90 mm
required spacing	
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
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	



Confirmation









EMC

Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other







Confirmation

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=3RP2505-1RW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-1RW30

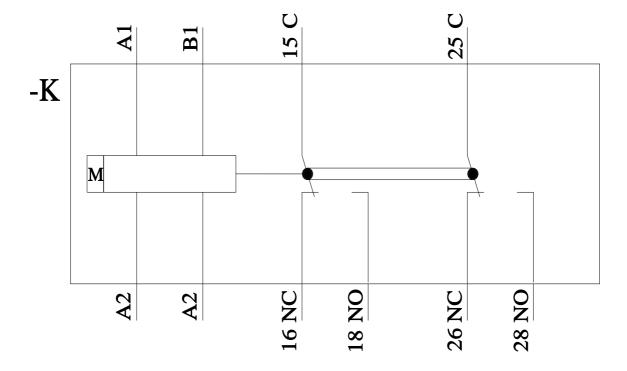
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-1RW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2505-1RW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-1RW30/manual



12/9/2021 🗗 last modified: