## **SIEMENS**

Data sheet 3RP2512-1AW30



Timing relay, electronic slow-operating 1 change-over contact, 1 time range 1.5...30 s 12-240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

product brand name	SIRIUS	
product designation	timing relay	
design of the product	slow-operating	
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	
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	1 30 s	
relative setting accuracy relating to full-scale value	5 %; +/-	
thermal current	5 A	
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	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1	
Weight	0.135 kg	
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	
	30 III 30 I I	

operating range factor control supply voltage rated value at DC	
• 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
Switching Function	
switching function	
ON-delay	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
flashing symmetrically with interval start/instantaneous	No
flashing symmetrically with interval start	No
flashing symmetrically with milerval start/instantaneous	No
flashing symmetrically with pulse start	No
flashing symmetrically with interval start	No
flashing asymmetrically with pulse start	No
switching function	INO
star-delta circuit with delay time	No
star-delta circuit	No
switching function with control signal	110
additive ON-delay	No
passing break contact	No
passing break contact/instantaneous	No
OFF delay	No
OFF delay/instantaneous	No
pulse delayed	No
<ul><li>pulse delayed</li><li>pulse delayed/instantaneous</li></ul>	No
pulse-shaping	No
pulse-shaping     pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	No
· · · · ·	No
passing make contact/instantaneous contact     switching function of interval relay with control signal	110
retrotriggerable with deactivated control signal/instantaneous contact	No
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control signal/instantaneous contact	No
retriggerable with deactivated control signal  Short-circuit protection	No
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
material of Switching Comacis	AUSTICZ

elistyted switching   0			
number of NO contacts	· · · · · · · · · · · · · · · · · · ·		
eliabyse switching   0		0	
Institution conclust	number of NO contacts		
rumber of CO contacts  - delayed switching - instributional current of auxiliary contacts at AC-15 - at 24 V - at 250 V -	<ul> <li>delayed switching</li> </ul>	0	
e-instantaneous contacts e-instantaneous e-instantaneous contacts e-instantaneous e-instan	instantaneous contact	0	
oral content of auxiliary contacts at AC-15	number of CO contacts		
operational current of auxiliary contacts at AC-15  • 31 24 V  • 31 25 V  • 31 A  • 31	<ul> <li>delayed switching</li> </ul>	1	
and 24 V al 250 V operational current of auxiliary contacts at DC-13 at 24 V at 125 V at 250 V operating frequency with 3RT2 contactor maximum 5000 1th contact reliability of auxiliary contacts mA) contact reliability of auxiliary contacts and incorrect switching operation of 100 million switching operations (17 V, 5 mA) contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts according to UL R300 / 8300 contact rating of auxiliary contacts contact function at the talgy outputs switchover delayed/without delay non-vocatile Ectoromagnetic compatibility EMC emitted interference according to IEC 61812-1 conducted interference according to IEC 61800-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conductor earth surge according to IEC 61000-4- acting to conducto	instantaneous contact	0	
a rit 26 V	operational current of auxiliary contacts at AC-15		
operational current of auxiliary contacts at DC-13  • at 24 V • at 250 V • on a	● at 24 V	3 A	
and 24 V all 125 V all 250 V operating frequency with 3RT2 contactor maximum ontact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) 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 onon-votable  Product function at the relay outputs switchover delayed/without delay onon-votable No  REMC emitted inferference according to IEC 61812-1 ambience A (industrial sector) conducted interference oducted interference according to IEC 61812-1 conducted interference 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 led to conductor-conductor surge according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-2 due to conductor-conductor 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-conductor 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 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-3 due to conductor-conductor conductor conduc	● at 250 V	3 A	
e at 125 V operating frequency with 3RT2 contactor maximum 5 0000 1/h contact reliability of auxiliary contacts m/A) contact reliability of auxiliary contacts according to UL R300 / 8300 witching capacity current with inductive load inputs/ Outputs product function at the relay outputs switchover delayed/without delay non-volatile Extremagnatic compatibility EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 conducted interference due to burst according to IEC 61000-4-2 due to conductor-card super according to IEC 61000-4-5 due to conductor-card super according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 At V contact discharge (8 kV air discharge state) protection class IP on the front according to IEC 60529 protection class IP on the front ac	operational current of auxiliary contacts at DC-13		
on at 250 V operating frequency with 3RT2 contactor maximum     contact reliability of auxiliary contacts     one incorrect switching operation of 100 million switching operations (17 V, 5 m/k)     contact rating of auxiliary contacts according to UL     switching capacity current with inductive load     one incorrect switching operation of 100 million switching operations (17 V, 5 m/k)     switching capacity current with inductive load     one-loading     product function	• at 24 V	1 A	
operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts and contact reliability of auxiliary contacts according to UL RS00 / 8300 switching capacity current with inductive load liputs / Outputs product function at the relay outputs switchover delayed/without delay non-volatile Externamental compatibility EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 EMC immunity according to IEC 61812-1 CMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 EMC immunity according to IEC 61812-1 EMC emitted interference according to IEC 61000-4-4 due to bust a according to IEC 61000-4-3 due to conductor-central surge according to IEC 1000-4-3 due to conductor-central surge according to IEC 61000-4-2 4 kV contact discharge /8 kV air discharge  Safety related data category according to EN 954-1 Electroal Safety protection class IP on the front according to IEC 60529 IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	● at 125 V	0.2 A	
contact rollability of auxiliary contacts	• at 250 V	0.1 A	
mA)  contact rating of auxiliary contacts according to UL switching capacity current with inductive load  linputs/ Outputs  ronduct function  at the relay outputs switchover delayed/without delay non-volatile  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 61800-4-4 due to conductor-cards tray according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-3 field-based inter	operating frequency with 3RT2 contactor maximum	5 000 1/h	
switching capacity current with inductive load Inputs/ Outputs  ** at the relay outputs switchover delayed/without delay ** non-volatile** ** on on-volatile** ** on on-volatile** ** EMC immunity according to IEC 61812-1 ** EMC immunity according to IEC 61812-1 ** conducted interference according to IEC 61812-1 ** conducted interference** ** due to burst according to IEC 61800-4-4 ** due to conductor-cand surper according to IEC 61000-4-5 ** due to conductor-conductor 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 61000-4-3 ** filed-based interference according to IEC 61000-4-3 ** all outputs according to IEC 61000-4-3 ** filed-based interference according to IEC 61000-4-3 ** all outputs according to IEC 61000-4-3 ** all outputs according to IEC 61000-4-3 ** to conductor-cand surger according to IEC 61000-4-3 ** to conductor-cand surger according to IEC 61000-4-3 ** to conduct cand data ** category according to IEC 81000-4-3 ** to conduct cand to IEC 80529 ** protection class IP on the front according to IEC 60529 ** type of insulation ** connections** Porn the front according to IEC 60529 ** type of insulation ** protection class IP on the front according to IEC 60529 ** type of electrical connection 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 electrical connectable conductor cross-section ** solid ** finely stranded with core end processing ** for AWG cables solid ** finely stranded with core end processing ** for AWG cables solid ** finely stranded with core end processing ** 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 ** solid ** finely stranded with core end processing ** solid	contact reliability of auxiliary contacts		
Inputs / Outputs product function at the relay outputs switchover delayed/without delay non-volatile Electromagnetic compatibility Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 conducted interference due to bust according to IEC 61800-4-4 due to conductor-earth surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 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 4 KV contact discharge   10 V/m electrostatic discharge according to IEC 61000-4-2 acategory according to EN 954-1 Inone Electrical Safety protection class IP on the front according to IEC 60529 IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	contact rating of auxiliary contacts according to UL	R300 / B300	
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 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor 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 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • delectrostatic discharge according to IEC 61000-4-3 • delectrostatic discharge according to IEC 61000-4-2  field-based interference according to IEC 61000-4-2 • devocated data category according to EN 954-1  Fliedrinal Safety  protection class IP on the front according to IEC 60529  type of insulation  Connectable conductor ross-sections • solid • finely stranded with core end processing • for AWG cables solid • finely stranded with core end processing • for AWG cables stranded  • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded •	switching capacity current with inductive load	0.01 3 A	
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 conducted interference  due to burst according to IEC 61802-4 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 control connection  due to conductor-conductor surge according to IEC 61000-4-5 2 kV  due to conductor-conductor surge according to IEC 61000-4-5 1 kV contact discharge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge  Safety related data  actegory according to EN 954-1 none  Electrical Safety  protection class IP on the front according to IEC 60529 IP20  type of insulation Basic insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connectable conductor cross-sections  * solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  * for AVG cables solid 1x (2.0 12), 2x (20 14)  * for AVG cables solid 20 4 mm²  * for for with core end processing 20 4 mm²  * for for with core end processing 30 4 mm²  * for for with core end processing 40 4 mm²  * for for with core end processing 50 4 mm²  * for for with core end processing 50 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for with core end processing 60 4 mm²  * for for	Inputs/ Outputs		
Incorporation     Incorpo	product function		
Electromagnetic compatibility  EMC emitted interference 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-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  fiold-based interference according to IEC 61000-4-2  electrostatic discharge according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  IP 20  type of insulation  Connections I 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 solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core	• at the relay outputs switchover delayed/without delay	No	
EMC emitted interference according to IEC 61812-1 corresponds to degree of severity 3 conducted interference  • due to burst according to IEC 6100-4-4 • 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 • 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 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor is IEC 61000-4-3 • delectrosatic discharge according to IEC 61000-4-2 • devource data category according to IEN 954-1 • lelectrical Safety  protection class IP on the front according to IEC 60529 • type of insulation  Connections/ Terminals  product component removable terminal 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 solid • for AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • stranded • strand		No	
EMC emitted interference according to IEC 61812-1 corresponds to degree of severity 3 conducted interference  • due to burst according to IEC 6100-4-4 • 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 • 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 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor is IEC 61000-4-3 • delectrosatic discharge according to IEC 61000-4-2 • devource data category according to IEN 954-1 • lelectrical Safety  protection class IP on the front according to IEC 60529 • type of insulation  Connections/ Terminals  product component removable terminal 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 solid • for AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • stranded • strand	Electromagnetic compatibility		
EMC immunity according to IEC 61812-1  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-cearth 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  talety rolated data  category according to EN 954-1  Electrical Safety protection class IP on the front according to IEC 60529  type of insulation  connections/ Torminals  product component removable terminal for auxiliary and control circuit  type of connectable conductor cross-section  • solid  • finely stranded with core end processing  • for AWG cables stranded  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded of the connectable conductor cross section  • solid  • solid  • finely stranded of the connection screw  M3  Installation/ mounting/ dimensions  mounting position  fastening method  height  100 mm		ambience A (industrial sector)	
• 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     • due to conductor-conductor surge according to IEC 61000-4-3     field-based interference according to IEC 61000-4-2	EMC immunity according to IEC 61812-1	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 61000-4-5  field-based interference according to IEC 61000-4-2  field-based interference according to IEC 61000-4-2  alectrostatic discharge according to IEC 60529  type of insulation  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  • for AWG cables stranded  • for AWG cables stranded  connectable conductor cross-section  • solid  • for AWG cables stranded  one target and the form the form according to IEC 60529  IX (20 12), 2x (20 14)  connectable conductor cross-section  • solid  • for AWG cables stranded  one target and the form the form according to IEC 60529  IX (20 12), 2x (20 14)  connectable conductor cross-section  • solid  • solid  • stranded with core end processing  AWG number as coded connectable conductor cross section  • solid  • stranded  • stranded  10 .5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • stranded  • stranded  • stranded  10 .5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • stranded  • stranded  • stranded  10 .5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • stranded  • stranded  10 .5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • stranded  10 .5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • stranded  10 .5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • stranded  10 .5 4 mm²  10 .5 4 mm²			
edue 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 category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation  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 stranded connectable conductor cross-section  • solid  • for AWG cables stranded connectable conductor cross-section  • solid  • finely stranded with core end processing  • solid  • for AWG cables stranded  connectable conductor cross-section  • solid  • solid  • solid  • finely stranded with core end processing  • solid  • so	<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection	
edue 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 category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation  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 stranded connectable conductor cross-section  • solid  • for AWG cables stranded connectable conductor cross-section  • solid  • finely stranded with core end processing  • solid  • for AWG cables stranded  connectable conductor cross-section  • solid  • solid  • solid  • finely stranded with core end processing  • solid  • so		2 kV	
field-based interference according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2  Safety related data category according to EN 954-1  Electrical Safety protection class IP on the front according to IEC 60529 type of Insulation  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  • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • for AWG cables stranded  connectable conductor cross-section • solid • so		1 kV	
electrostatic discharge according to IEC 61000-4-2  Safety related data  category according to EN 954-1  Electrical Safety protection class IP on the front according to IEC 60529  type of insulation  Connections/ Terminals  product component removable terminal for auxilitary 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  • for AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing  • for AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing  • Solid  • finely stranded with core end processing  • Solid  • finely stranded with core end processing  • Solid  • Solid  • Solid  • Stranded  • Stranded  • Stranded  • Stranded  tightening torque  design of the thread of the connection screw  M3  Installation/ mounting/ dimensions  mounting position  fastening method  height  100 mm			
Category according to EN 954-1 none Electrical Safety protection class IP on the front according to IEC 60529 IP20 type of insulation Basic insulation  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 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) • for AWG cables solid 1x (20 12), 2x (20 14) • for AWG cables stranded  connectable conductor cross-section  • solid 0.5 4 mm²  AWG number as coded connectable conductor cross section  • solid 20 12  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 DIN rail height	field-based interference according to IEC 61000-4-3	10 V/m	
category according to EN 954-1 none  Electrical Safety protection class IP on the front according to IEC 60529 IP20 type of insulation  Connections/ Torminals  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  • for AWG cables solid  • for AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  0.5 4 mm²  AWG number as coded connectable conductor cross section  • solid  • solid  • stranded  tightening torque  design of the thread of the connection screw  M3  Installation/mounting/ dimensions mounting position  fastening method  height  100 mm	electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge	
Electrical Safety protection class IP on the front according to IEC 60529 type of insulation  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  • solid  • for AWG cables stranded  • for AWG cables stranded  • for AWG cables stranded  • solid  • solid  • finely stranded with core end processing  • solid  • for lectrical connectable conductor cross-sections  • solid  • for AWG cables stranded  • for AWG cables stranded  • solid  • stranded  20 12  • stranded  tightening torque  design of the thread of the connection screw  M3  Installation/ mounting/ dimensions  mounting position  fastening method  height  100 mm	Safety related data		
type of insulation  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  • solid  • for AWG cables solid  • for AWG cables stranded  • solid  • solid  • for AWG cables stranded  • solid  • solid  • solid  • solid  • for AWG cables stranded  • solid  • solid  • for AWG cables stranded  • solid  • solid  • solid  • finely stranded with core end processing  • solid  • solid  • solid  • solid  • solid  • finely stranded with core end processing  • solid  • solid  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid	category according to EN 954-1	none	
type of insulation  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  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  • finely stranded with core end processing  • for AWG cables solid  • for AWG cables stranded  • for AWG cables stranded  • for AWG cables stranded  • solid  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • solid  • finely stranded with core end processing  AWG number as coded connectable conductor cross section  • solid  • stranded  • stranded  • stranded  tightening torque  design of the thread of the connection screw  M3  Installation/ mounting/ dimensions  mounting position  fastening method  height  100 mm	Electrical Safety		
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  • for AWG cables stranded  • solid  • solid  • finely stranded with core end processing  • for AWG cables stranded  • for AWG cables stranded  • solid  • solid  • finely stranded with core end processing  • solid  • solid  • solid  • solid  • stranded  • stranded  • stranded  tightening torque  design of the thread of the connection screw  mounting position  fastening method  height  100 mm	protection class IP on the front according to IEC 60529	IP20	
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 stranded  • finely stranded with core end processing  • solid  • solid  • finely stranded with core end processing  • solid  • solid  • finely stranded with core end processing  • solid  • solid  • solid  • solid  • stranded  • stranded  • stranded  tightening torque  design of the thread of the connection screw  mounting position  fastening method  height  100 mm	type of insulation	Basic insulation	
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 stranded  • for AWG cables stranded  • finely stranded with core end processing  • solid  • for AWG cables stranded  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  AWG number as coded connectable conductor cross section  • solid  • solid  • solid  • stranded  • stranded  • stranded  tightening torque  design of the thread of the connection screw  mounting position  fastening method  height  100 mm	Connections/ 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  • for AWG cables solid  • for AWG cables stranded  1x (20 12), 2x (20 14)  • for AWG cables stranded  1x (20 12), 2x (20 14)  • for AWG cables stranded  • solid  • solid  • finely stranded with core end processing  • finely stranded with core end processing  • solid  • solid  • solid  • solid  • solid  • stranded  • stranded  • stranded  • stranded  • solid  • stranded  • stranded  • stranded  • solid  • stranded  • stranded  • solid  • stranded  • strand		Yes	
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> <li>for AWG cables stranded</li> <li>for AWG cables stranded</li> <li>tx (20 12), 2x (20 14)</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>aWG number as coded connectable conductor cross section</li> <li>solid</li> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>100 mm</li> </ul>	type of electrical connection for auxiliary and control circuit	screw-type terminals	
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> <li>for AWG cables stranded</li> <li>1x (20 12), 2x (20 14)</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> <li>mounting position</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail</li> <li>height</li> <li>1x (0.5 4 mm²)</li> <li>1x (20 14)</li> <li>1x (20 12), 2x (20 14)</li> <li>0.5 4 mm²</li> <li>0.6 0.8 N·m²</li> <li>0.6 0.8 N·m</li> <li>0.7 14</li> <li>0.8 N·m</li> <li>0.8 N·m</li> <li>0.9 N·m</li></ul>	type of connectable conductor cross-sections		
for AWG cables solid         for AWG cables stranded         1x (20 12), 2x (20 14)         for 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	• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
for 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	<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)	
connectable conductor cross-section  • solid  • finely stranded with core end processing  AWG number as coded connectable conductor cross section  • solid  • stranded  • stra	<ul> <li>for AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)	
solid     finely stranded with core end processing     O.5 4 mm²  AWG number as coded connectable conductor cross section     solid     stranded     stranded     stranded     tightening torque     design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position     fastening method     screw and snap-on mounting onto 35 mm DIN rail height     100 mm	for AWG cables stranded	1x (20 12), 2x (20 14)	
• finely stranded with core end processing  AWG number as coded connectable conductor cross section      • solid     • stranded     • st	connectable conductor cross-section		
AWG number as coded connectable conductor cross section  • solid  • stranded  • stranded  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  fastening method  screw and snap-on mounting onto 35 mm DIN rail  height  100 mm	• solid	0.5 4 mm²	
section  • solid • stranded 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 DIN rail height 100 mm	finely stranded with core end processing	0.5 4 mm²	
● 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 DIN rail height 100 mm			
tightening torque  0.6 0.8 N·m  design of the thread of the connection screw  M3  Installation/ mounting/ dimensions  mounting position  fastening method  beight  100 mm	• solid	20 12	
design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height  100 mm	stranded	20 14	
Installation/ mounting/ dimensions  mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm	tightening torque	0.6 0.8 N·m	
mounting position     any       fastening method     screw and snap-on mounting onto 35 mm DIN rail       height     100 mm	design of the thread of the connection screw	M3	
fastening method     screw and snap-on mounting onto 35 mm DIN rail       height     100 mm	Installation/ mounting/ dimensions		
height 100 mm	mounting position	any	
	fastening method	screw and snap-on mounting onto 35 mm DIN rail	
width 17.5 mm	height	100 mm	
	width	17.5 mm	

depth	90 mm	
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	
during storage	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity during operation	10 95 %	
Approvals Certificates		
General Product Approval		EMV













EMV Test Certificates Marine / Shipping

<u>KC</u>

Type Test Certificates/Test Report









Marine / Shipping other Environment





Confirmation

Environmental Confirmations

## 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=3RP2512-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2512-1AW30

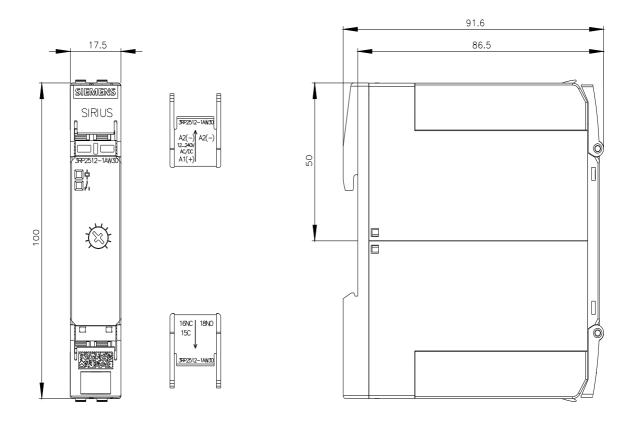
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

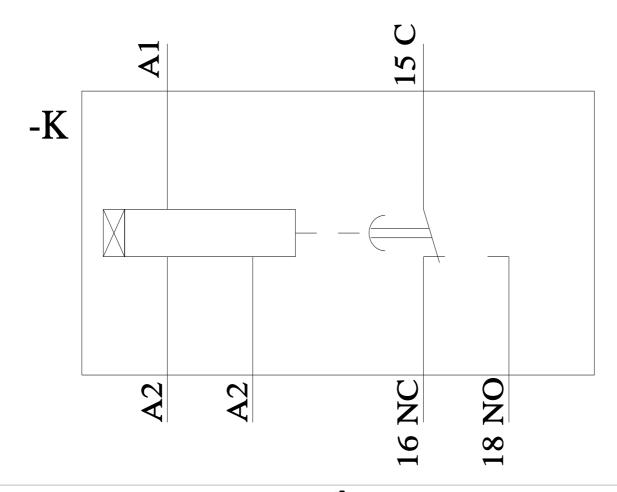
https://support.industry.siemens.com/cs/ww/en/ps/3RP2512-1AW30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2512-1AW30&lang=en

**Characteristic: Derating** 





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