SIEMENS

Data sheet

3RP2540-1AB30



Timing relay, electronic OFF delay without control signal or smooth passing make contact non-volatile 24 V AC/DC, 1 change-over contact 7 time ranges, 0.05...600 s with LED, Screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	OFF-delay without control signal, non-volatile, passing make contact
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
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 600 s
adjustable time note	minimum value at function N = 0.5 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	250 ms
recovery time	250 ms
reference code according to IEC 81346-2	К
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	

at DO rate durature	04.14
at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 50 Hz	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
inrush current peak	
• at 24 V	2 A
duration of inrush current peak	
• at 24 V	1 ms
Switching Function	
switching function	
ON-delay	No
 ON-delay/instantaneous contact 	No
 passing make contact 	Yes
 passing make contact/instantaneous contact 	No
• OFF delay	Yes
switching function	
 flashing symmetrically with interval start/instantaneous 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with pulse start/instantaneous 	No
 flashing symmetrically with pulse start 	No
 flashing asymmetrically with interval start 	No
 flashing asymmetrically with pulse start 	No
switching function	
 star-delta circuit with delay time 	No
• star-delta circuit	No
switching function with control signal	
 additive ON-delay 	No
 passing break contact 	No
 passing break contact/instantaneous 	No
 OFF delay 	No
 OFF delay/instantaneous 	No
 pulse delayed 	No
 pulse delayed/instantaneous 	No
• pulse-shaping	No
 pulse-shaping/instantaneous 	No
 additive ON-delay/instantaneous 	No
 ON-delay/OFF-delay/instantaneous 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
signal/instantaneous contact	No
 retrotriggerable with switched on control signal retrotriggerable with switched on control 	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
 retriggerable with deactivated control signal 	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 4 A
switch required	
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0

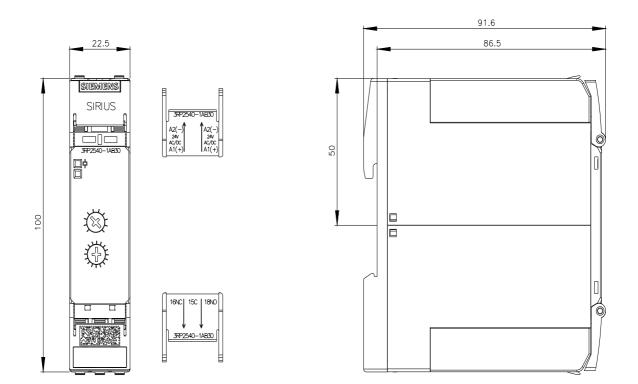
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electrostatic discharge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety related data	field-based interference according to IEC 61000-4-3	10 V/m
category according to EN 954-1 none protection class IP on the front according to IEC 60529 IP20 type of insulation Basic insulation Connections/ Terminals Product component removable terminal for auxillary and control circuit type of electrical connection for auxiliary and control circuit Yes • solid 1x (0.5 4.0 mm ³), 2x (0.5 2.5 mm ³) • finely stranded with core end processing 1x (0.5 4.0 mm ³), 2x (0.5 1.5 mm ³) • for AWG cables solid 1x (20 12), 2x (20 14) • for AWG cables stranded 1x (20 12), 2x (20 14) connectable conductor cross-section 0.5 4 mm ² • solid 0.5 4 mm ² • finely stranded with core end processing 0.5 4 mm ² • finely stranded with core end processing 0.5 4 mm ² • finely stranded with core end processing 0.5 4 mm ² • solid	electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
protection class IP on the front according to IEC 60529 IP20 type of insulation Basic insulation Connections/Terminals Yes 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 is (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • solid 1x (20 12), 2x (20 15 mm²) • for AWG cables solid 1x (20 12), 2x (20 14) • for AWG cables stranded 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • for AWG cables stranded 1x (20 12), 2x (20 14) • connectable conductor cross-section • solid • solid 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • solid 0.5 0.8 N·m • design of the thread of the connection screw M3	Safety related data	
type of insulation Basic insulation Connections/ Terminals Formula for auxiliary and control circuit Yes product component removable terminal for auxiliary and control circuit Screw-type terminals type of electrical connectable conductor cross-sections is control circuit Screw-type terminals type of connectable conductor cross-sections is (0.5 4.0 mm²), 2x (0.5 2.5 mm²) is finely stranded with core end processing is for AWG cables solid 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) is (20 12), 2x (20 14) connectable conductor cross-section is olid 0.5 4 mm² is finely stranded with core end processing 0.5 4 mm² is olid 0.2 12 is standed 20 14 tightening torque 0.6 0.8 Nm design of the thread of the connection screw M3 Installation/ mounting/ dimensions any mounting position any fasteling	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 screw-type terminals • solid 1x (0.5 4.0 mm³), 2x (0.5 2.5 mm³) • finely stranded with core end processing 1x (0.5 4 mm³), 2x (0.5 1.5 mm³) • for AWG cables solid 1x (20 12), 2x (20 14) • for AWG cables stranded 1x (20 12), 2x (20 14) connectable conductor cross-section 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • stranded with core end processing 0.5 4 mm² • 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 any fasten	protection class IP on the front according to IEC 60529	IP20
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 screw-type terminals • 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 2.5 mm²) • for AWG cables solid 1x (20 12), 2x (20 14) • for AWG cables stranded 1x (20 12), 2x (20 14) • for AWG cables stranded 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • stranded with core end processing 0.5 4 mm² • 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 any m	type of insulation	Basic insulation
control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections is olid • 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 1x (20 12), 2x (20 14) • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • solid 0.5 4 mm² • solid 20 12 • solid 20 12 • solid 20 14 tightening torque 0.6 0.8 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm	Connections/ Terminals	
type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections ix (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 1x (20 12), 2x (20 14) connectable conductor cross-section solid • solid 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded of the connectable conductor cross screw • 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 any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm	product component removable terminal for auxiliary and	Yes
type of connectable conductor cross-sections• solid• finely stranded with core end processing1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for AWG cables solid1x (20 12), 2x (20 14)• for AWG cables stranded1x (20 12), 2x (20 14)• for AWG cables stranded0.5 4 mm²• solid• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• solid• solid0.5 4 mm²• solid• solid20 12• stranded20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsmounting positionanyfastening methodheight100 mmwidth22.5 mmdepth90 mm	· · · · · ·	
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• finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• for AWG cables solid1x (20 12), 2x (20 14)• for AWG cables stranded1x (20 12), 2x (20 14)• for AWG cables stranded0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• solid20 12• stranded20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	type of connectable conductor cross-sections	
• for AWG cables solid1x (20 12), 2x (20 14)• for AWG cables stranded1x (20 12), 2x (20 14)connectable conductor cross-section• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²AWG number as coded connectable conductor cross section• solid20 12• stranded20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmgepth90 mm	• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
• for AWG cables stranded1x (20 12), 2x (20 14)connectable conductor cross-section0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²AWG number as coded connectable conductor cross section20 12• solid20 12• solid20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
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• solid0.5 4 mm²• finely stranded with core end processing0.5 4 mm²AWG number as coded connectable conductor cross section20 12• solid20 12• stranded20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	 for AWG cables stranded 	1x (20 12), 2x (20 14)
• finely stranded with core end processing0.5 4 mm²AWG number as coded connectable conductor cross section0.5 4 mm²• solid20 12• stranded20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	connectable conductor cross-section	
AWG number as coded connectable conductor cross section 20 12 • solid 20 14 tightening torque 0.6 0.8 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm	• solid	0.5 4 mm²
section• solid20 12• stranded20 14tightening torque0.6 0.8 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 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 any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm		
tightening torque 0.6 0.8 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm	• solid	20 12
design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing Installation	stranded	20 14
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing Installation	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 width 22.5 mm depth 90 mm required spacing	design of the thread of the connection screw	M3
fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing	Installation/ mounting/ dimensions	
height 100 mm width 22.5 mm depth 90 mm required spacing 90 mm	mounting position	any
width 22.5 mm depth 90 mm required spacing 90 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail
depth 90 mm required spacing 90 mm	height	100 mm
required spacing	width	22.5 mm
	depth	90 mm
with side-by-side mounting	required spacing	
	 with side-by-side mounting 	

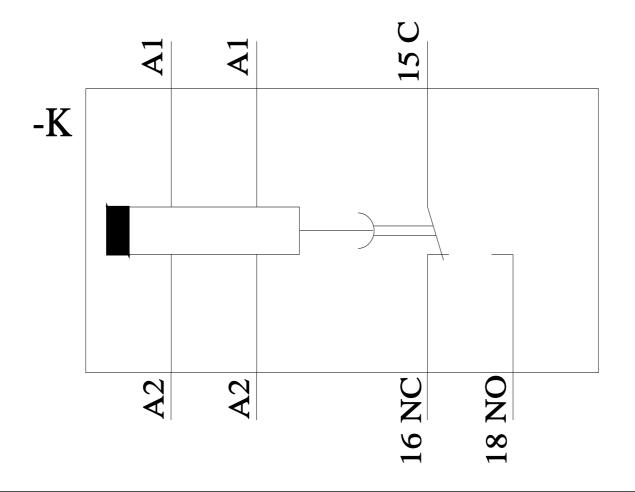
— forward — backwa — upward:			0 mm		
	urde		0 mm		
upward	iius		0 mm		
	S		0 mm		
— downwa	ards		0 mm		
— at the s	ide		0 mm		
 for grounded 	parts				
- forward	S		0 mm		
— backwa	irds		0 mm		
— upward	s		0 mm		
— at the si	ide		0 mm		
— downwa	ards		0 mm		
 for live parts 					
- forward	s		0 mm		
— backwa	ırds		0 mm		
— upward	s		0 mm		
— downwa	ards		0 mm		
— at the si	ide		0 mm		
Ambient conditions					
	at height above sea level m	aximum	2 000 m		
ambient temperatu			2 000 111		
during operat			-25 +60 °C		
 during operation during storag 			-40 +85 °C		
 during storag during transp 			-40 +85 °C		
relative humidity du			-40 1 0 95 %		
			10 95 %		
Approvals Certificat		_			
CA	ccc	EG-Konf.		UL	
EMV					
	Test Certificates	Marine / Shippi	ng		
RCM	Test Certificates Type Test Certific- ates/Test Report	Marine / Shippi	ng Ĵ& DNV DNV	Lloyd's Kegister urs	PRS
	Type Test Certific- ates/Test Report	Marine / Shippi	ĴÅ DNV	Hoyd's Register urs	PRS
RCM Marine / Shipping	Type Test Certific- ates/Test Report	B U REAU VERITAS		Lloyd's Register urs	PRS
Marine / Shipping	Type Test Certific- ates/Test Report	other Confirmation	wn-russian-business tes.		Verse products to an
Marine / Shipping	Type Test Certific- ates/Test Report ates/Test Report	other Confirmation arket (see here). ise/siemens-wind-dor urrent EAC certificar e status of validity of f d EAEU member stat (view/109813875 , Brochures,)	wn-russian-business tes. the EAC certification if you inten tes Russia or Belarus).		Verse products to an

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2540-1AB30 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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