SIEMENS

Data sheet 3RP2005-1AP30



Timing relay, electronic Multifunction, 8 functions 1 change-over contact 24 V AC/DC, 200 to 240 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	Multifunctional
product type designation	3RP20
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 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
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	0.05 100 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	35 ms
recovery time	150 ms
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	±5 %
power supply influence	±1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2
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 2 at AC	
• at 50 Hz	200 240 V
• at 60 Hz	200 240 V

Control supply voltage 1 at DC a ned value a finitial value b finitial value c f	control supply voltage frequency 1	50 60 Hz
e-reited value control supply voltage rated value at CC initial value e full scale value control supply voltage rated value at 6.0 s. s. c.		00 00 TIZ
poerating range factor control supply voltage rated value at C C in Initial value in full scale value of the full scale value		24 \/
initial value 0.85 1.1 1		24 V
Ac at 50 rays and second control supply voltage rated value at Ac at 50 rays are factor control supply voltage rated value at Ac at 50 rays are factor control supply voltage rated value at a full value are initial value as a full-acal value at at 60 rays are factor control supply voltage rated value at at 60 rays are full-acal value at a full-		
Operating range factor centrol supply voltage rated value at Act at 50 Hz	• initial value	0.85
AC at 60 ftz Initial value 0.85 1.1	full-scale value	1.1
Item		
Appendix Comment Com	initial value	0.85
AC at 60 Hz Initial value Initial	full-scale value	1.1
• full-scale value • full		
switching function ONI-delay (Pes ONI-delay) (Instantaneous contact (Pes) ONI-delay (Pes) ONI	• initial value	
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* OFF delay switching function • flashing symmetrically with interval start/instantaneous • flashing symmetrically with pulse start/ instantaneous • flashing symmetrically with pulse start/ instantaneous • flashing symmetrically with pulse start/ instantaneous • flashing symmetrically with pulse start instantaneous • flashing asymmetrically with pulse start in No • star-delta circuit with delay time in No • star-delta circuit with control signal • additive ON-delay • passing break contact/instantaneous in No • OFF delay • oFF delay • oFF delay • oFF delay instantaneous in No • pulse delayed • pulse delayed • pulse-shaping/instantaneous in No • passing make contact/instantaneous in No • passing make contact/instantaneous contact in No switching function of interval relay with control signal • rerotrigegrable with deactivated control signal • rerotrigegrable with deactivated control signal • retotrigegrable with deactivated	passing make contact	Yes
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• flashing symmetrically with interval start • flashing symmetrically with pulse start • flashing asymmetrically with pulse start • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • ves • passing break contact • passing break contact • passing break contact yes • passing break contact/instantaneous • OFF delay • OFF delay • pulse delayed • pulse delayed/instantaneous • pulse-shaping • pulse-shaping/instantaneous • outles-delay/instantaneous • outles-delay/instantaneous • outles-delay/instantaneous • pulse-shaping yes • pulse-shaping/instantaneous • outles-delay/instantaneous • outles-delay/instantaneous • pulse-shaping with 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 switched-on control signal • retrotriggerable with sectivated control signal • retrotriggerable with switched-on control signal • retrotriggerabl	switching function	
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design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts AgSnO2	design of the control terminal non-floating	Yes
design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts AgSnO2		
Auxiliary circuit material of switching contacts number of NC contacts AgSnO2	design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 4 A
material of switching contacts AgSnO2 number of NC contacts		
number of NC contacts		
	-	AgSnO2
delayed switching		
	delayed switching	
• instantaneous contact 0	instantaneous contact	0

number of NO contacts	
 delayed switching 	0
instantaneous contact	0
number of CO contacts	
 delayed switching 	1
• instantaneous contact	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
	mA)
contact rating of auxiliary contacts according to UL	R300 / B300
Inputs/ Outputs	
product function	
• non-volatile	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	EN 61000-6-4(3)
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
due to conductor-earth surge according to IEC 61000-4-5	2 kV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	1 IVV
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	
-	
category according to EN 954-1	none
category according to EN 954-1 Electrical Safety	none
	IP20
Electrical Safety	
Electrical Safety protection class IP on the front according to IEC 60529	IP20
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals	IP20 finger-safe, for vertical contact from the front
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation	IP20 finger-safe, for vertical contact from the front Basic insulation
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and	IP20 finger-safe, for vertical contact from the front Basic insulation
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit	IP20 finger-safe, for vertical contact from the front Basic insulation No
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Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²)
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²)
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Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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 connectable conductor cross-section	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)
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Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 18 14 18 14
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 18 14 18 14 18 14 0.8 1.2 N·m
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 18 14 0.8 1.2 N·m M3
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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 connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method height width depth	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm
Electrical Safety protection class IP on the front according to IEC 60529 touch protection 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	IP20 finger-safe, for vertical contact from the front Basic insulation No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm

— 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 %	
Approvals Certificates		

General Product Approval

Confirmation











EMV **Test Certificates** Marine / Shipping



<u>KC</u>

Type Test Certificates/Test Report







Marine / Shipping

other

Environment





Confirmation

Environmental Confirmations

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=3RP2005-1AP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2005-1AP30

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

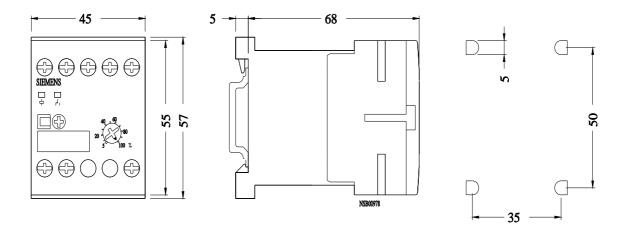
https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-1AP30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2005-1AP30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-1AP30/manual



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